



Terrain Solutions, Inc.

**Environmental Site Assessments • Land Resources Evaluation
Hydrogeology • Environmental Geology • Engineering Geology**

ENVIRONMENTAL MEDIA ASSESSMENT

OF

**SUNNYSIDE PARK
3502 BELLFORT STREET
HOUSTON, TEXAS 77051**

PREPARED FOR

**MR. GABRIEL MUSSIO
CITY OF HOUSTON, GENERAL SERVICES DEPARTMENT
P.O. BOX 61189
HOUSTON, TEXAS 77208-1189**

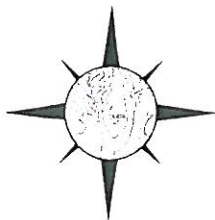
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TSI PROJECT NO.: 170209-01B

APRIL 10, 2017

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April 10, 2017

Mr. Gabriel Mussio
City of Houston, General Services Department
P.O. Box 61189
Houston, Texas 77208-1189

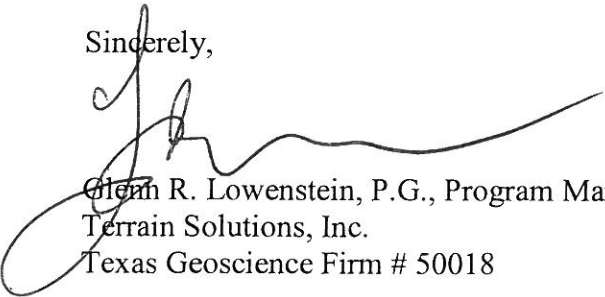
Subject: Environmental Media Assessment
Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051
TSI Project No. **170209-01B**

Dear Mr. Mussio:

Terrain Solutions, Inc. (TSI) herein submits this report of our Environmental Media Assessment that was conducted on the above referenced site. This study was performed in general accordance with the terms and conditions outlined in TSI's Proposal Nos. P1701-08Rev1, dated February 13, 2017, and P1703-29, dated March 20, 2017, which were authorized through the Professional Consulting Services Contract No. 4600011816, Public Health Consolidated Construction Fund, Fund 4508; PRO #4200007401 by letters dated February 13, 2017 and March 22, 2017, respectively.

TSI appreciates the opportunity to be of service to you. Should you have any questions or comments, please do not hesitate to call.

Sincerely,


Glenn R. Lowenstein, P.G., Program Manager
Terrain Solutions, Inc.
Texas Geoscience Firm # 50018


Mr. Matthew Cowan, PG
Project Manager





TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
INTRODUCTION.....	5
OBJECTIVE	5
PROJECT SCOPE AND BASIS OF ASSESSMENT	5
PROFESSIONAL QUALIFICATIONS	5
PROJECT BACKGROUND.....	7
PHYSICAL SETTING	9
SITE AND VICINITY DESCRIPTION	9
GEOLOGY	9
SOILS	9
TOPOGRAPHIC MAP REVIEW.....	10
HYDROGEOLOGY AND SURFACE HYDROLOGY	10
FIELD INVESTIGATION.....	12
SOIL SAMPLING	15
GROUNDWATER SAMPLING.....	16
BOREHOLE PLUGGING AND ABANDONMENT	17
WASTE HANDLING.....	17
RESULTS	18
ANALYTICAL CHEMICAL RESULTS	18
SUBSURFACE SOIL CONDITIONS	20
FIELD MEASUREMENTS AND OBSERVATIONS	20
ANALYTICAL CHEMICAL RESULTS	21
FINDINGS & CONCLUSIONS	22
OPINION & RECOMMENDATIONS.....	23
WARRANTY AND LIMITATIONS	24



APPENDICES

SITE SAMPLING PLANS	A
SITE ACTIVITY PHOTOGRAPHS	B
BORING/TEMPORARY MONITOR WELL LOGS	C
ANALYTICAL RESULTS SUMMARY TABLES.....	D
LABORATORY REPORTS.....	E
BACK-UP DOCUMENTATION.....	F



EXECUTIVE SUMMARY

Terrain Solutions, Inc. (TSI) was engaged by Mr. Gabriel Mussio of City of Houston, General Services Department, to perform an Environmental Media Assessment of the Sunnyside Park, an approximately 25-acre tract of land located 3502 Bellfort Street, Houston, Texas 77051. Additionally, sediment and stormwater samples were collected along Reed Road near the intersection of Rosehaven Drive, at the rear of the WLD Johnson Branch library, 3517 Reed Road, and the Sunnyside Storefront Police Station, 3511 Reed Road. This assessment was performed in an effort to confirm the presence or absence of suspected contaminants on the subject site or at selected areas in the vicinity.

Sunnyside Park, the subject property, is located on the southwest corner of Comal Street and Bellfort Street in Houston, Texas. The park consists of a main building housing athletic recreation facilities, offices, and meeting rooms. Other amenities included two paved parking areas, tennis courts, an outdoor swimming pool, baseball fields, covered pavilion, public garden, and playground. The park is in an area that is developed with single family residences and E.M. Young Elementary school to the north; residences to the east; a storefront police station and library to the south; and the former Bellfort landfill to the south and west. Approximately 1,750 feet to the west is a concrete plant.

Stell Environmental Enterprises, Inc. (October 2010) performed a “Targeted Brownfields Assessment Phase II Environmental Site Assessment” on the Bellfort Landfill (Contract W9126G-06-D-0037, Del # 0024) which is located south and west of the Sunnyside park. The assessment of the Bellfort Landfill involved the drilling and installation of four temporary monitoring wells, twenty-three borings, and ten surface samples. Because of the chemical analysis of 12 soil samples and six groundwater and observation of the soil cores, the following conclusions were drawn:

- The landfill cap varies from two to eight feet.
- The landfill waste varies from two to forty-two feet and is composed of rubber, glass, plastic, brick and wood.



- Methane was detected at one boring location located 1400 feet from the Sunnyside park boundary.
- No elevated concentrations of volatile organic compounds were detected in field screening of the samples.
- No chemicals of concern (VOCs, SVOCs, or RCRA metals) were found in the surface soils tested above Protective Concentration Levels (PCLs).
- Several metals and a SVOC compound were found in the groundwater above the PCLs.

A review of the historical aerial photographs of the Sunnyside Park do not indicate the obvious presence of trash cells or piles. Residences were located along the eastern portion of the Park along Comal Street.

From February 14 to March 1, 2017, TSI personnel and representatives collected ten sediment and surface water samples from the perimeter of the park and at selected places near Reed Road after a rain event. Seven air samples were collected from the western and southern boundaries of the park. Additionally, ten borings were advanced in Sunnyside Park, four of which were converted to temporary monitoring wells. Ten soil and four groundwater samples were collected for chemical analyses.

Through sampling and chemical analysis, TSI has generally confirmed the absence of the suspected contaminants on the subject site.

Specifically, the assessment found:

- No landfill debris in the soil cores
- No detection of methane in the surface borings
- No soil staining or odors noted in the subsurface cores
- No regulatory exceedances of VOCs or silica dust through the analysis of the grab air samples



- No regulatory exceedances of Chemicals of Concern or pH through the analysis of stormwater sediment, subsurface soil, and groundwater samples
- One slight exceedance of lead was detected in a surface water sample collected after a rain event from a drainage swale located in the southeast corner of the park near Comal Street. The lead concentration of the water sample SPSW-06 contained 0.033 mg/l of total lead compared to the TCEQ Drinking Water PCL of 0.015 mg/l.

TSI was asked by the City of Houston to investigate further into the occurrence of the slightly elevated lead content in the stormwater sample. Two additional stormwater samples, SC-1A & SC-1B, were collected on March 29, 2017 approximately two hours into a rain event from the Comal Street Outfall entering the park and were analyzed for total lead (unfiltered) and dissolved lead (filtered). Additionally, the drainage areas that lead to the Comal Street outfall were visually assessed and were examined through the 2008 LIDAR elevation imagery. The following conclusions were drawn:

- The dissolved lead content was below Sample Detection Limits.
- The collected water sample was cloudy due to suspended sediments. The total lead content of the water sample was 0.031 mg/l that is above the ingestion level of 0.015 mg/l, similar to the last sample analysis.
- The areas that drain into the Comal Street Outfall are located to the south in the Former Bellfort Landfill which is elevated approximately 25 feet above the park. Rain water flows through at least two steep drainage ways eastward from the eastern side of the Bellfort tract and then is directed mainly northward in a narrow swale that is orientated on the eastern boundary of the fenced tract. Water finally drains to the park through the Comal Street Outfall. The drainage areas are generally covered by grasses, brush, and trees with only minor signs of concrete debris.



- The nearest historic waste cell was located 1,100 feet from the outfall so an impact from a typical rain event is unlikely.
- The ponded rainwater at the Comal Street Outfall was totally evaporated or migrated from within two days of the rain event.
- The lead content of the surface sediments collected from the park varies from 0.4 mg/kg to 39.3 mg/kg and therefore suspension of these sediments in the rainwater could impact the analysis of total lead content in water samples.

Based on the current evidence, chemical testing, and observations, TSI believes the elevated lead content of the stormwater observed at the Comal Street Outfall was caused by the inclusion of small clay particles that naturally contain lead that were brought into suspension by the steep discharge slopes on the eastern boundary of the Bellfort Landfill.

In accordance with the findings and conclusions listed in this report, Terrain Solutions, Inc. has not found concentrations of the suspected contaminants in the tested media that exceeded health standards. No evidence was found that the subject site has been impacted adversely by the closed Bellfort landfill nor has Sunnyside Park been subjected to landfill use. TSI does recommend that the City of Houston consider fencing off the area that typically contains the standing water entering the park at the Comal Street Outfall.

This executive summary does not fully describe Terrain Solutions, Inc.'s findings, conclusions, opinions, and recommendations or the basis upon which they were determined; such information is conveyed via the entirety of the report.



INTRODUCTION

OBJECTIVE

Terrain Solutions, Inc. (TSI) was engaged by Mr. Gabriel Mussio of the City of Houston, General Services Department to perform an Environmental Media Assessment of a 25- acre tract of land identified as “Sunnyside Park” located 3502 Bellfort Street. This assessment was performed to confirm the presence or absence of suspected contaminants on the subject site.

PROJECT SCOPE AND BASIS OF ASSESSMENT

The invasive subsurface assessment was performed in general conformance with the authorized proposal. *Accordingly, this assessment included sampling and invasive testing of the subject property based on the identification and/or suspicion of adverse environmental conditions, such as the use of the property as a landfill or the possible migration of contaminants from an adjacent municipal landfill.* The assessment is dependent on several factors, including, but not limited to field conditions, budget, allotted time schedule, the position of utility and subsurface structures, weather, and tenant/occupant terms. During this study, a reasonably thorough attempt was made to confirm the presence or absence of subsurface impacts. Because of the limitations inherent in invasive assessments, as listed above, our findings, conclusions, opinions, and recommendations can be considered probabilities only.

TSI has applied the level of attention and expertise that is normally exercised by environmental professionals performing this type of assessment. TSI reserves the right to alter its conclusions and recommendations based on our review of any information obtained after the date of this report. No warranty, express or implied, is made as to the professional information included in this report.

PROFESSIONAL QUALIFICATIONS

The Primary Investigator was Matthew R. Cowan, P.G. (Texas 1263), CAPM (0042). Mr. Cowan has over 20 years of experience in geological and environmental applications. Mr. Cowan holds a B.S. in Geology from Texas A&I University, Kingsville Texas and a M.S. in Geology from



Texas A&M University-Kingsville, Kingsville Texas. He is a Licensed Professional Geologist (P.G. # 1263) in the State of Texas and is a Corrective Action Project Manager (CAPM # 0042).

Mr. Glenn Lowenstein, P.G., C.A.P.M., Program Manager, assisted Mr. Matthew Cowan with this invasive assessment. Mr. Lowenstein has over 25 years of professional experience in environmental and geological applications, which include environmental site assessments, UST investigations, and geologic studies of surface faults. He has performed environmental site assessments for both public and private sector projects. Mr. Lowenstein holds a B.S. in Geology from Queens College and a M.S. in Geology from Texas A&M University, College Station, Texas. He is a Licensed Professional Geologist (P.G. # 28) in the State of Texas and is a Corrective Action Project Manager (CAPM # 116).



PROJECT BACKGROUND

Stell Environmental Enterprises, Inc. (October 2010) performed a “Targeted Brownfields Assessment Phase II Environmental Site Assessment” on the Bellfort Landfill (Contract W9126G-06-D-0037, Del # 0024) which is located south and west of the Sunnyside park. The assessment of the Bellfort Landfill involved the drilling and installation of four temporary monitoring wells, twenty-three borings, and ten surface samples. Because of the chemical analysis of 12 soil samples and six groundwater and observation of the soil cores, the following conclusions were drawn:

- The landfill cap varies from two to eight feet.
- The landfill waste varies from two to forty-two feet and is composed of rubber, glass, plastic, brick and wood.
- Methane was detected at one boring location located 1400 feet from the Sunnyside park boundary.
- No chemicals of concern (VOCs, SVOCs, or RCRA metals) were found in the surface soils tested above Protective Concentration Levels (PCLs).
- Several metals and a SVOC compound were found in the groundwater above the PCLs.

A review of the historical aerial photographs of the Sunnyside Park obtained by examination of Goggle Earth and selected aerials obtained from TNRIS do not indicate the obvious presence of trash cells or piles. As visible in the 1953 aerial photograph, residences were located along the eastern portion of Sunnyside Park along Comal Street with the remainder of site vacant with an unpaved access road west of the park orientated southwest towards the landfill. A copy of the 1953 aerial is included in the Appendix.



This scope of this assessment is designed to confirm the presence or absence of pollutants typically associated with municipal landfills in the subsurface under Sunnyside Park or have migrated on-site through groundwater transport. Additionally, the assessment will collect air samples and stormwater run-off samples from the perimeters of the Sunnyside Park and stormwater run-off samples from the boundaries with the HPD storefront, Johnson library, and drainage areas along Reed Road shared with the closed Bellfort landfill to confirm the presence or absence of selected pollutants.



PHYSICAL SETTING

SITE AND VICINITY DESCRIPTION

Sunnyside Park, the subject property, is located on the southwest corner of Comal Street and Bellfort Street in Houston, Texas. The park consists of a main building housing athletic recreation facilities, offices, and meeting rooms. Other amenities included two paved parking areas, tennis courts, an outdoor swimming pool, baseball fields, covered pavilion, public garden, and playground. The park is located in an area that is developed with single family residences and E.M. Young Elementary school to the north; residences to the east; a storefront police station and library to the south; and the former Bellfort landfill to the south and west. Approximately 1,750 feet to the west is a concrete plant.

GEOLOGY

A review of the Bureau of Economic Geology 1982 Geologic Atlas of Texas Houston Sheet indicates the geologic formation underlying the study area is the Beaumont Formation. The Beaumont Formation was deposited during the Pleistocene Epoch, a geologic time period that began about 1.8 million years ago and ended about 10 to 15 thousand years ago with the retreat of the last continental glaciers in North America. The Beaumont Formation is primarily fluvial (river-derived) in origin and consists of interbedded layers of clay, sand, and silt. Geomorphic features associated with the Beaumont include pimple mounds and shallow, circular depressions.

SOILS

According to the USDA Soil Conservation Service's *Soil Survey of Harris County, Texas*, published in 1976, the soil type found at the subject property is **Bernard-Edna complex, 0 to 1 percent slopes** and is described as follows:

Component: Bernard (60%)

The Bernard component makes up 60 percent of the map unit. Slopes are 0 to 1 percent. This component is on flats on flat coastal plains. The parent material consists of clayey fluviomarine deposits derived from igneous, metamorphic and sedimentary rock. The Bernard is composed of: 0 to 6 inches: clay loam and clay from 6 to 80 inches. Depth to a root restrictive layer is greater than



60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, December. Organic matter content in the surface horizon is about 3 percent. This soil does not meet hydric criteria.

Component: Edna (20%)

The Edna component makes up 20 percent of the map unit. Slopes are 0 to 1 percent. This component is on flats on coastal plains. The parent material consists of loamy fluviomarine deposits derived from igneous, metamorphic and sedimentary rock. The Edna is composed of: 0 to 9 inches: loam; 9 to 50 inches; and 50 to 80 inches: sandy clay loam. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9 inches during January, February, March. This soil does not meet hydric criteria.

TOPOGRAPHIC MAP REVIEW

The 2016 U.S.G.S. topographic map for Park Place, Texas shows the subject property to be relatively flat with a slight slope to the northeast. Sunnyside Park varies from an elevation of 50 feet above MSL in the west and south to 45 feet in the north and east.

The former Bellfort landfill, to the south and west, varies in elevation from 75 feet MSL to 50 feet and slopes steeply towards the park.

The nearest natural stream is Sims Bayou located approximately 7,800 feet to the southeast. Sims Bayou flows northeastward towards Buffalo Bayou and then eastward towards the Gulf of Mexico.

HYDROGEOLOGY AND SURFACE HYDROLOGY

Harris County is located within the Gulf Coast Aquifer System, which includes the Chicot and Evangeline Aquifers. The Chicot is the uppermost aquifer and extends to the surface in the study area. Shallow groundwater, which can be found at depths of less than 30 feet in the study area, is from the Chicot. Depth to shallow groundwater can vary with the seasons and with weather patterns. Groundwater movement direction is variable from location to location and may not



follow the surface flow direction. Shallow groundwater is generally not used as a water source and is not considered potable.

At greater depths, the Chicot Aquifer produces sufficient quantities of water that is suitable for domestic, commercial, and light industrial purposes. The Evangeline Aquifer, which underlies the Chicot in the study area and is found at depths of approximately 800 feet, is the major producer of groundwater in the Houston Metropolitan Area. These deeper zones of water production are usually hydraulically discontinuous with the overlying, groundwater-bearing, shallow sands and silts.

Storm water runoff appears to drain south-north through swales and culverts located on the west side and east sides of the Park towards the north. There is an east-west swale in the northern section that may drain off-site in a northeastern direction. A small detention pond is adjacent the western swale along the northern boundary of the park.



FIELD INVESTIGATION

SURFACE WATER AND SEDIMENT SAMPLING

Following rains on the evening of February 13, 2017 and the morning of February 14, 2017, Mr. Pete Berveiler, Principal Engineer, and Mr. Glenn Lowenstein, Principal Geologist, mobilized to the subject site. Mr. Berveiler and Mr. Lowenstein marked the six proposed sampling locations (SPSD-01/SPSW-01 through SPSPD-06/SPSW-06) inside the Park along the fence line where runoff from the adjacent property could have passed through in standing water. The field crew then departed the park to identify the remaining locations as recommended by the City of Houston. These locations (SPSD-07/SPSW/07 through SPSPD-10/SPSW-10) were selected based on observed ponding at locations identified by the City of Houston personnel and concerned residents where surface water had migrated towards Reed Road near Johnson Library and the Houston Police Department Storefront near Comal and Reed Road. In addition, two locations along Reed Road near the intersection of Reed Road and Rosehaven Drive, and near the bus stop to the east of that intersection were identified and marked for sample collection.

The field crew then returned to the Park to perform the sampling of SPSPD-01/SPSW-01 and SPSPD-02/SPSW-02 and continued around the perimeter collecting shallow soil and surface water samples at each location, with the exception of SPSW-08, which no longer contained sufficient quantity of water from which a sample could be collected due to absorption into the soil and continued runoff during the course of sampling.

Subsequently, the samples were delivered to A&B Labs, a NELAC accredited laboratory on Wednesday, February 15, 2017 within the permitted holding times for all samples.



In accordance with the industry standard of care, all sample containers were provided by the accredited laboratory. Prior to and after each sample, the non-disposable sampling apparatus were decontaminated with a 3-stage rinse, consisting of a water-alconox mixture, followed by a clean water rinse and a second clean water rinse. All sediments were initially collected using gloved hand techniques or decontaminated hand tools. This material was placed in a uniquely labeled, sealable bag. Headspace readings were taken by a PID, and recorded on the daily summary log from each bag within 10 minutes of sample collection.

Samples were then transferred from the sealed bags into laboratory-prepared glassware using the included SW-846 5035-A collection device (Terra-Core sampler) for TX-1005 Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOC) by ASTM method 8260. Samples were then manually placed in the other laboratory-prepared glassware for the Method 8270 semi-volatile organic compounds (SVOC) list, the RCRA metals list (ASTM Methods 6010 and 7470), and for Moisture.

For surface water, a mass quantity of liquid was captured from the target location using a decontaminated transfer bottle. This allowed all the samples to be captured in one grab sample. The bottle was then used to transfer material to the laboratory-provided pre-cleaned and preserved glassware. Volatile Organic Compounds (VOC) and Total Petroleum Hydrocarbon (TPH) samples were decanted first. SVOC were decanted second, and RCRA metals were decanted third.

Two additional surface water samples, SC-1A & SC-1B, were collected on March 29, 2017 approximately two hours into a rain event from the Comal Street Outfall entering the park and were analyzed for total lead (unfiltered) and dissolved lead (filtered). See the Appendix for stormwater sediment and surface water sampling locations.

Containers were then placed into a chilled transport cooler for transport to A&B Laboratories in Houston, Texas, a NELAC-Accredited facility. Any re-used sampling materials or implements were cleaned before each sample collection activity using the above-referenced triple-rinse, including Alconox/water scrub, and double pressurized rinse.



AIR SAMPLING

Mr. Berveiler returned to the subject site at 7 AM on the morning of Saturday, February 18, 2017 to set the air sampling canisters. The canisters were suspended at the approximate 4-foot elevation mark from either a fence or a tree branch to represent an equivalent breathing zone collection point. Mr. Berveiler returned at 3 PM of the same day to retrieve the canisters. The canisters were delivered to the A&B Labs on Monday, February 20, within the permitted holding times for all samples. In accordance with industry standard practice, the laboratory provided the field crew with prepared summa-style vacuum canisters with 8-hour regulators. Once attached, the bottles were opened, and the regulators would permit the inflow of air intended to represent a time-weighted average of a typical 8-hour exposure. The canisters were retrieved and closed, and returned to the laboratory for analysis by method TO-15 for VOC. See the Appendix for air sampling locations.

The airborne particulate monitoring for crystalline silica was conducted by Mr. Greg Lall, Project Manager, on March 1, 2017, using portable battery operated pumps drawing air through 37 millimeter cassettes loaded with 5 Micron PVC filters. The samples were delivered to A&B Environmental Services, Inc., an American Industrial Hygiene Association (AIHA) accredited and Department of State Health Services (DSHS) licensed laboratory, located at 10100 East Freeway, Suite 100, in Houston, Texas 77029. Samples were analyzed by X-Ray Diffraction in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7500. Analysis results were compared to the Recommended Exposure Limit (REL) of 0.05 milligrams per cubic meter (mg/m³) of air.



SUBSURFACE SOIL AND GROUNDWATER SAMPLING

On February 22nd and 23rd of 2017, Mr. Matthew R. Cowan, TSI's Project Manager, supervised the drilling and installation of four temporary monitoring wells and six soil borings.

The borings were placed in the following locations:

BORING LOCATIONS

BORING ID.	LOCATION	TERMINATION DEPTH (Feet)
ST-1	Northwest portion of the park	24
ST-2	Western side of the park	24
ST-3	Southern side of the park	24
ST-4	Eastern side of the park	24
SB-1	Southeast corner of the Tennis court	16
SB-2	Practice ball field	16
SB-3	North of practice ball field	16
SB-4	Between the two southern ball fields	16
SB-5	Eastern side of the park	16
SB-6	Northeastern side of the park	16

SOIL SAMPLING

Soil samples extracted from the Geoprobe were collected in dedicated 2-inch x 4-foot acetate sleeves and were sliced open in the field for lithologic description and organic vapor analysis with an Organic Vapor Meter or Photoionization Detector (OVM/PID). Soil samples were split in half and placed in labeled resealable plastic bags. One set from each depth interval was placed in a cooler for potential chemical analysis and the other set was set aside for headspace analysis. After approximately fifteen minutes, the probe of a PID was placed in each bag and the concentration of organic vapors in the headspace was measured in parts per million (ppm) and recorded for each chosen depth interval. One section of the core from each boring was chosen for chemical analysis based on organic vapor readings, signs of staining in lieu of obvious indications of contamination,



the termination depth or a representative soil core interval. Each open boring was probed with a landfill gas meter upon completion to detect escaping methane vapors.

Ten selected soil samples were placed in a laboratory-supplied Terra-core kits (6 x 40ml VOAs) and glass jars (4-oz. capacity), stored in a cooler with ice, and transported under Chain-of-Custody to A&B Labs in Houston, Texas. The soil samples were analyzed for the presence of Total Petroleum Hydrocarbons (TPH, Method 1005), RCRA Metals (Methods 6010B and 7470), Volatile Organic Compounds (VOCs by Method 8260), Semi-Volatile Organic Compounds (SVOC by Method 8270), and pH, using the Texas Risk Reduction Program (TRRP) detection limits.

Non-disposable sampling such as the hand-auger or sampling trowel was decontaminated before or after a sample by washing the tool in water –alconox mixture and then rinsing the tool with distilled water. When obvious signs of contamination are detected in the soil strata that the sampling tool penetrates, an isopropyl alcohol wash was used prior to the distilled water rinse.

GROUNDWATER SAMPLING

Four temporary monitoring wells were advanced to a depth of 24 ft. below ground surface and a groundwater sample was collected from a 1-inch diameter slotted casing via a peristaltic pump and disposable hosing. Each monitoring well was composed of 10 feet of flush-mount Schedule 40 PVC riser, 15 feet of 0.01-inch screen.

Approximately 1-2 gallons of groundwater were removed from each well until relatively sediment-free water was obtained.

The groundwater samples were collected in six 40 mL vials, 500 mL plastic bottle, 250 mL plastic bottle and a 1 L amber jug, placed in a cooler with ice, and transported under Chain-of-Custody to A&B Labs in Houston, Texas. The groundwater samples were analyzed for the presence of Total



Petroleum Hydrocarbons (TPH, Method 1005), RCRA Metals (Methods 6010B and 7470), Volatile Organic Compounds (VOCs by Method 8260), Semi-Volatile Organic Compounds (SVOC by Method 8270), and pH, using the Texas Risk Reduction Program (TRRP) detection limits.

BOREHOLE PLUGGING AND ABANDONMENT

The borings were filled with bentonite upon completion.

WASTE HANDLING

The soil cuttings and unused samples were stored in one labeled fifty-five gallon labeled ring-top drum was stored off-site for subsequent disposal. Sampling materials and consumables were disposed off-site in a dumpster.



RESULTS

ANALYTICAL CHEMICAL RESULTS

STORMWATER SEDIMENTS

For this site, the appropriate regulatory drivers for sediments are the most conservative soil Protective Concentration Levels (PCLS), as the surface water is intermittent, and no consumable fauna are present for uptake into any human in this park. Under the TCEQ regulations, the most conservative PCL is the most current (December 2016) least published values, in this case the Residential Total Soil Combined ($^{TOT}SOIL_{COMB}$) PCL. Since this site is greater than a 30-acre potential source area, those tables were used as inputs for this study.

Naturally occurring metals were detected within acceptable ranges in sediments. TPH and VOC were reported as non-detect in the laboratory report. The only SVOC reported as detected above the detection limits was bis (2-ethylhexyl) phthalate, a plasticizer and known lab contaminant. It was reported 3 orders of magnitude in concentration below the PCL in sample SRSD-10. The pH of the sediments was considered within the normal range for the area.

See the Appendix for a summary of these results.

SURFACE WATER

For surface water, due to the intermittent status of the body of water, and lack of consumable fauna for potential uptake, the most appropriate PCL is the most current (December 2016) Groundwater Ingestion standard, $^{GW}GW_{ING}$.

Only naturally occurring metals were detected above the detection limits in any surface water samples collected from this site. Only one sample, SPSW-06, was reported by the lab to have a result (0.033 mg/L) exceeding the Residential Tier 1 Protective Concentration Limit (0.015 mg/L).



The results of the subsequent analyses of two surface water samples, SC-1A & SC-1B, collected on March 29, 2107 indicated:

- The dissolved lead content was below Sample Detection Limits.
- The total lead content, which included suspended sediments observed as cloudiness, contained 0.031 mg/l that is above the ingestion level of 0.015 mg/l, similar to the last sample analysis.

The drainage areas that lead to the Comal Street outfall were visually assessed and were examined through examination of the 2008 LIDAR elevation imagery. The upgradient areas that drain into the Comal Street Outfall are located to the south in the Former Bellfort Landfill which is elevated approximately 25 feet above the park. Rain water flows through at least two steep drainage ways eastward from the eastern side of the Bellfort tract and then is directed mainly northward in a narrow swale that is orientated on the eastern boundary of the fenced tract. The water finally drains to the park through the Comal Street Outfall. The drainage areas are generally covered by grasses, brush, and trees with only minor signs of concrete debris. A topographic map, a LIDAR (Light Detection and Ranging) map with water drainage pathways, and photographs of the drainage areas are included in the Appendix.

AIR

VOCs

For ambient air, the appropriate regulatory comparison values are the Air Monitoring Comparison Values (AMCVs) published by the EPA and TCEQ. The AMCVs are based on Effects Screening Levels, or ESVs. Over the long-term, the chronic ESV provides the most conservative comparison value for an 8-hour equivalent exposure. The only detected constituent under Method TO-15 was methylene chloride, in two containers: NW-01 and S-01. The ESV for methylene chloride is 330 parts per million. The results for methylene chloride were 4.4 ppm in NW-01 and 5.2 ppm in S-01. Methylene chloride is a known lab contaminant for decontaminating metal containers, like these summa canisters. In addition, because the Henry's constant for methylene chloride is 1.34,



the probability of its survivability in nature outside a few feet away from a manufacturing process is negligible, we can presume that these results are lab contaminants, and not indicative of the presence of methylene chloride at this site.

Silica Dust

The test results did not show elevated concentrations of silica dust at the Sunnyside Park site. The laboratory analysis shows that the concentrations are Below the Reporting Limit (BRL). Concentrations were less than 0.0142 mg/m^3 , which is lower than the REL of 0.05 milligrams per cubic meter (mg/m^3) of air.

See the Appendix for a summary of these results.

SUBSURFACE SOIL CONDITIONS

Based on the boring descriptions, the subsurface consists of top soil fill material in the upper 2 to 4 feet followed by a clay with an increasing amount of sand transitioning from a clayey sand to a water-bearing sand at a depth 23 to 24 feet below the ground surface. Soil boring logs are presented in the Appendix.

FIELD MEASUREMENTS AND OBSERVATIONS

- None of the soil cores had any signs of staining or odor. The soil cores did not reveal any indications of landfill debris.
- Readings from a PID were recorded on the soil borings. The readings ranged from zero to one part per million.
- No methane was detected in the borings during drilling or associated with the soil cores.



ANALYTICAL CHEMICAL RESULTS

Soil discussion

The analytical results for the ten soil samples submitted for analysis found that there were no chemicals of concern that were detected above the TCEQ Tier 1 Protective Concentrations levels for ^{TOT}Soil_{COMB.} - the health-based regulatory concentrations. The pH of the subsurface soils was within normal range for the area.

Groundwater discussion

The analytical results for the four groundwater samples submitted for analysis found that there were no chemicals of concern that were detected above the TCEQ Tier 1 Protective Concentrations levels for ^{GW}GW_{ING.} - the health-based regulatory concentrations. The pH of the groundwater was within normal range.



FINDINGS & CONCLUSIONS

TSI has completed an Environmental Media Assessment, through the observation, collection, and chemical analysis of stormwater sediment, surface water, air, subsurface soil, and groundwater samples from the Sunnyside Park and vicinity in general accordance with the authorized TSI's Proposals. Through invasive testing, TSI has generally confirmed the absence of the suspected contaminants on the subject site.

Specifically, the assessment found:

- No landfill debris in the soil cores
- No detection of methane in the surface borings
- No soil staining or odors noted in the subsurface cores
- No elevated concentrations of volatile organic compounds detected in field screening of the samples
- No regulatory exceedances of VOCs or silica dust through the analysis of the grab air samples
- No regulatory exceedances of Chemicals of Concern or pH through the analysis of stormwater sediment, subsurface soil, and groundwater samples
- One slight exceedance of lead was detected in a surface water sample collected after a rain event from a drainage swale located in the southeast corner of the park near Comal Street. The lead concentration of the water sample SPSW-06 contained 0.033 mg/l of total lead compared to the TCEQ Drinking water PCL of 0.015 mg/l. Subsequent surface water analysis and field observations indicated the elevated lead content of the stormwater observed at the Comal Street Outfall was caused by the inclusion of small clay particles that naturally contain lead brought into suspension by the steep discharge slopes on the eastern boundary of the Bellfort Landfill. The reasons for this conclusion are:
 - The nearest historic waste cell was located 1,100 feet from the outfall so an impact of landfill waste on rainwater during a typical rain event is unlikely.



- The lead content of the surface sediments collected from the park varies from 0.4 mg/kg to 39.3 mg/kg and therefore suspension of these sediments in the rainwater could impact the analysis of total lead content in water samples.

Additionally, the only risk to human health is ingestion of the rainwater from the Comal Street Outfall which is unlikely and the standing rain water was observed to be evaporated or migrated from the area within several days of the rain event.

OPINION & RECOMMENDATIONS

In accordance with the findings and conclusions listed in this report, Terrain Solutions, Inc. has not found concentrations of the suspected contaminants in the tested media that exceeded health standards. No evidence was found that the subject site has been impacted adversely by the closed Bellfort landfill nor has Sunnyside Park been subjected to landfill use. TSI does recommend that the City of Houston consider fencing off the area that typically contains the standing water entering the park at the Comal Street Outfall.



WARRANTY AND LIMITATIONS

During the course of this study, a reasonably thorough attempt was made to confirm the presence or absence of suspected contaminants in the subsurface of the subject site. Due to the limitations inherent in sample collection, there is the possibility such adverse environmental conditions may escape detection due to the presence of surface obstructions, utilities, or the lack of readily available knowledge regarding past facility management practices, chemical or equipment usage.

TSI has applied the level of attention and expertise that is normally exercised by environmental professionals performing this type of assessment. TSI reserves the right to alter its conclusions and recommendations based on our review of any information obtained after the date of this report.

This report was prepared pursuant to the agreement that Terrain Solutions, Inc. has with the client. That contractual relationship included an exchange of information about the subject site that was unique and between Terrain Solutions, Inc. and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Terrain Solutions, Inc. and its clients, reliance or any use of this report by anyone other than the following entities: City of Houston, General Services Department, or the client for whom it was prepared, is prohibited. Use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Terrain Solutions, Inc.'s contract with the client.

Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. ***For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party and no other warranty or guarantee, expressed or implied, is made or offered.***

APPENDICES



APPENDIX A

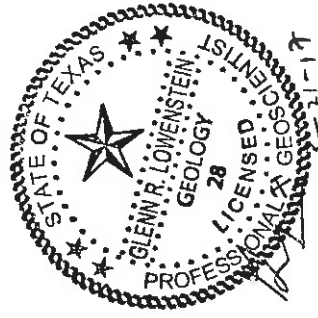
SITE SAMPLING PLANS





LEGEND

- SUBJECT PROPERTY BOUNDARY
- HISTORICAL LANDFILL BOUNDARY



Terrain Solutions, Inc.

TERRAIN SOLUTIONS, INC.
 Firm Registration # 50018
 10103 Fondren Road, Suite 426
 Houston, Texas 77096

OVERVIEW MAP

FIGURE

1

SUNNYSIDE PARK
 3502 BELLFORT ST
 HOUSTON, TX 77051



DATE: MARCH 2017 JOB NO.: 170209-01B



APPROXIMATE SCALE: 1"=800'



LEGEND

SUBJECT PROPERTY BOUNDARY

SPSD-01
SEDIMENT SAMPLE (0-6")
LOCATIONS

SPSW-01
SURFACE WATER SAMPLE
LOCATIONS

NOTE: BASE IMAGE SOURCE 2015 GOOGLE
EARTH
IMAGE

Terrain
Solutions, Inc.

TERRAIN SOLUTIONS, INC.

Firm Registration # 50018

10103 Fondren Road, Suite 426

Houston, Texas 77096

SEDIMENT MAP AND
SURFACE WATER

FIGURE
2

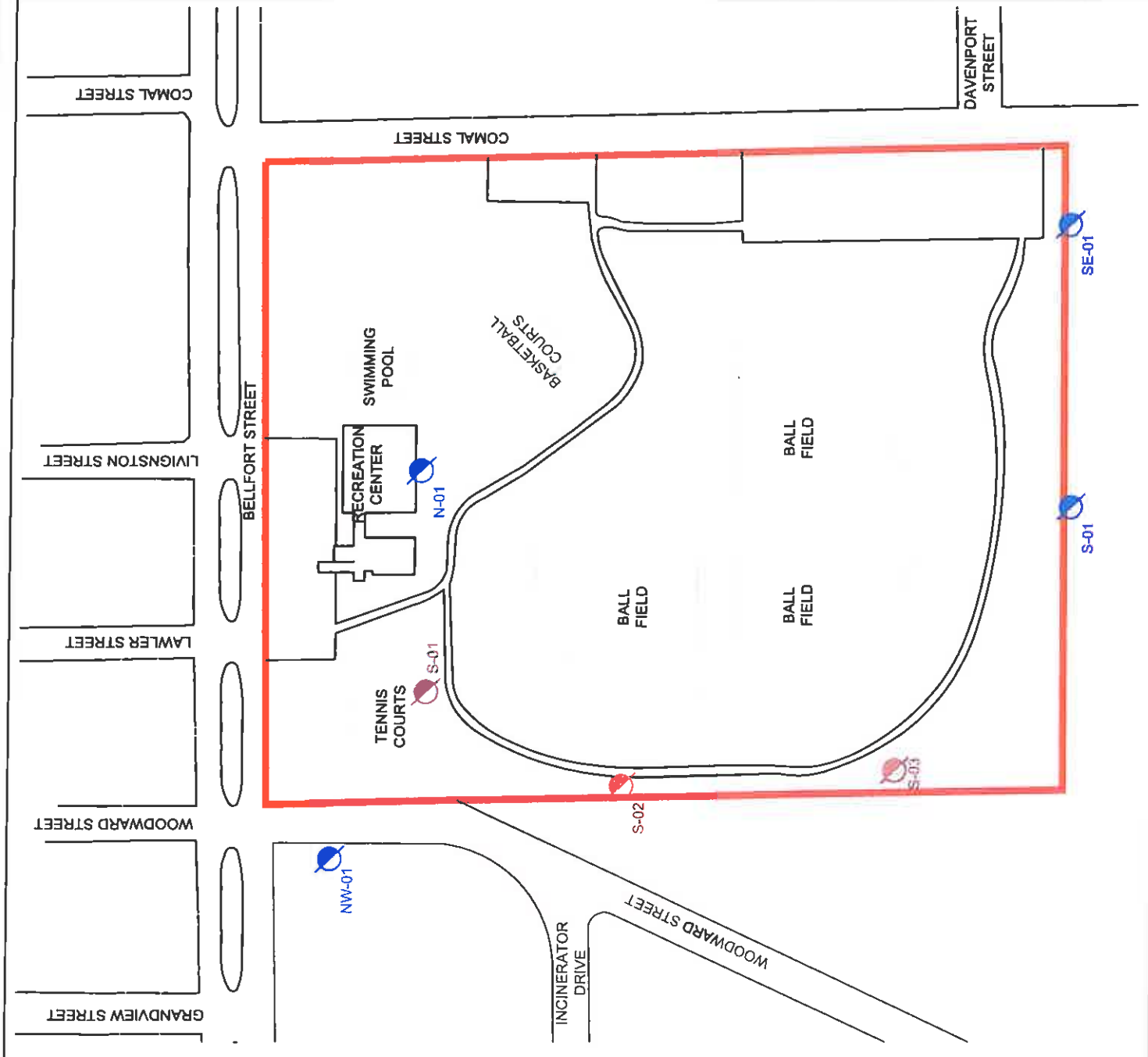
SUNNYSIDE PARK
3502 BELLFORT ST
HOUSTON, TX 77051

DATE: APRIL 2017

JOB NO: 170209-01B

0 250 500

APPROXIMATE SCALE: 1"=500'



LEGEND

SUBJECT PROPERTY BOUNDARY

NW-01

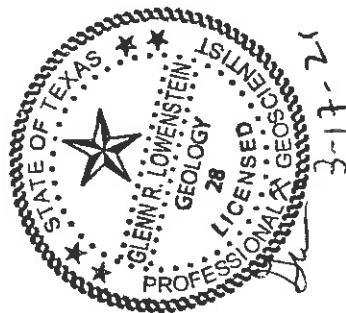


VOC AIR SAMPLING LOCATION

S-01



SILICA AIR SAMPLING LOCATION



Terrain Solutions, Inc.
 TERRAIN SOLUTIONS, INC.
 Firm Registration # 50018
 10103 Fondren Road, Suite 426
 Houston, Texas 77096

VOC AND SILICA AIR MAP
 FIGURE 3

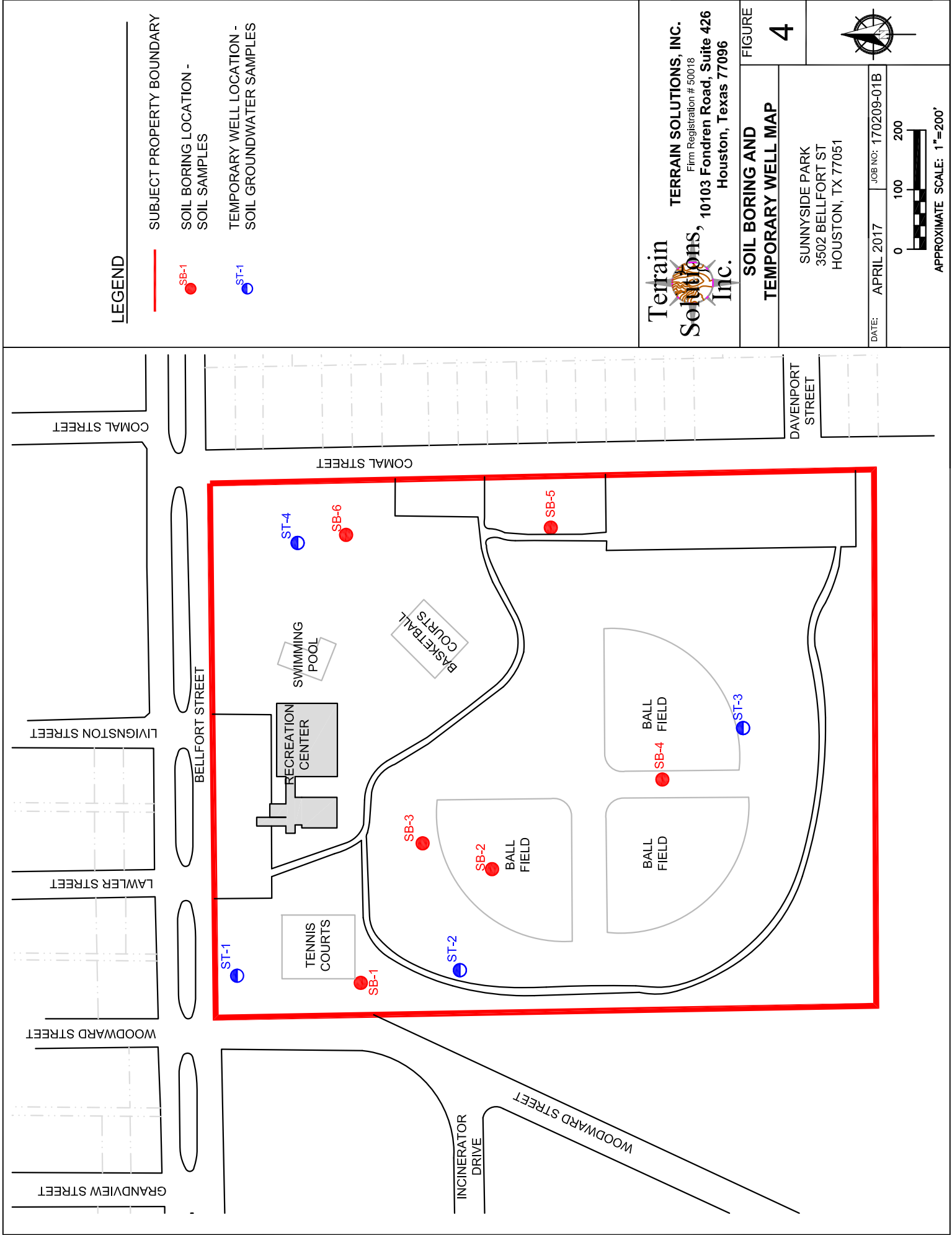
SUNNYSIDE PARK
 3502 BELLFORT ST
 HOUSTON, TX 77051

DATE: MARCH 2017 JOB NO: 170209-01B



APPROXIMATE SCALE: 1"=200'





APPENDIX B

SITE ACTIVITY PHOTOGRAPHS



TERRAIN SOLUTIONS, INC.

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 1		
Description: SPSW-01/SPSD-01 Sample Location, Facing North		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 2		
Description: SPSW-02/SPSD-02 Sample Location, Facing Northeast		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 3		
SPSW-03/SPSD-03 Sample Location, Facing Northwest		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 4		
Description: SPSW-04/SPSD-04 Sample Location, Facing North		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 5		
Description: SPSW-05/SPSD-05 Sample Location, Facing Northwest		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 6		
Description: SPSW-06/SPSD-06 Sample Location, Facing MISSING		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 7		
Description: SPSW-07/SPSD-07 Sample Location, Facing Southeast at confluence of 2 channels from south- flowing east side and east-flowing south side behind library		
Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 8		
Description: SPSD-07 Sample Location, Facing Northwest water previously evident in area, but most in this area travels east to SPSW-07		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 9		
Description: SPSW-09/SPSD-09 Sample Location, Facing Northwest		

Property Name: Sunnyside Park Houston, TX		Project No. 1702-02E
Photo No. 10		
Description: SPSW-10/SPSD-10 Sample Location, Facing Northwest, drains to nearby drain when not overflowing onto street		

PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #1 DESCRIPTION:

View of subject property Sunnyside Park looking southwest



PHOTO #2 DESCRIPTION:

View of subject property Sunnyside Park looking west



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #3 DESCRIPTION:

View of subject property Sunnyside Park looking north



PHOTO #4 DESCRIPTION:

Temporary well (ST-1) advanced on the northwest side of the subject property



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #5 DESCRIPTION:

Water sampling for lab analysis on the temporary well (ST-1)



PHOTO #6 DESCRIPTION:

Methane readings conducted on the temporary well (ST-1)



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #7 DESCRIPTION:

Boring (ST-3) advanced on the southeast part of the subject property near the baseball field



PHOTO #8 DESCRIPTION:

Water sampling (ST-4) conducted on the northeast part of the subject property



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #9 DESCRIPTION:

Water sampling (ST-4) conducted on the northeast part of the subject property looking southwest



PHOTO #10 DESCRIPTION:

Soil boring (SB-1) advanced next to the tennis court on the northwest side of the subject property



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #11 DESCRIPTION:

Boring (SB-2) advanced north of the baseball field on the west side of the subject property



PHOTO #12 DESCRIPTION:

Boring (SB-3) advanced on the west side of the subject property

PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #13 DESCRIPTION:

Boring (SB-4) advanced between the two baseball fields on the south side of the subject property



PHOTO #14 DESCRIPTION:

Boring (SB-5) on the east side of the subject property north of the larger parking lot



PHOTOGRAPHIC REPORTING DATA SHEET

Client/ TSI Project No.:	City of Houston/ 170209-01B	Photographer:	Atif Hariz
Name of Site:	Sunnyside Park	Location:	3502 Bellfort Ave., Houston, TX 77051



PHOTO #15 DESCRIPTION:

Boring (SB-6) on the northeast side of the subject property north of the smaller parking lot



PHOTO #16 DESCRIPTION:

Temporary well (ST-2) after water sampling



PHOTOGRAPHIC REPORTING DATA SHEET

Client:	City of Houston	Photographer:	G. Lowenstein
Name of Site/TSI Project No.:	Sunnyside Park Comal Street Stormwater Sampling	Location:	3502 Bellfort Avenue, Houston, Texas 77051



PHOTO #1 DESCRIPTION:

Typical example of foliage and surface soils in the eastern slope of the drainage areas in the former Bellfort landfill.



PHOTO #2 DESCRIPTION:

Typical example of foliage and surface soils in the eastern slope of the drainage areas in the former Bellfort landfill.



PHOTOGRAPHIC REPORTING DATA SHEET

Client:	City of Houston	Photographer:	G. Lowenstein
Name of Site/TSI Project No.:	Sunnyside Park Comal Street Stormwater Sampling	Location:	3502 Bellfort Avenue, Houston, Texas 77051



PHOTO #3 DESCRIPTION:

Typical example of foliage and surface soils in the eastern slope of the drainage areas in the former Bellfort landfill.



PHOTO # DESCRIPTION:

Foliage and surface soils upslope of the Comal Street outfall into Sunnyside Park.



APPENDIX C

BORING/MONITOR WELL LOGS





TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-5

Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051

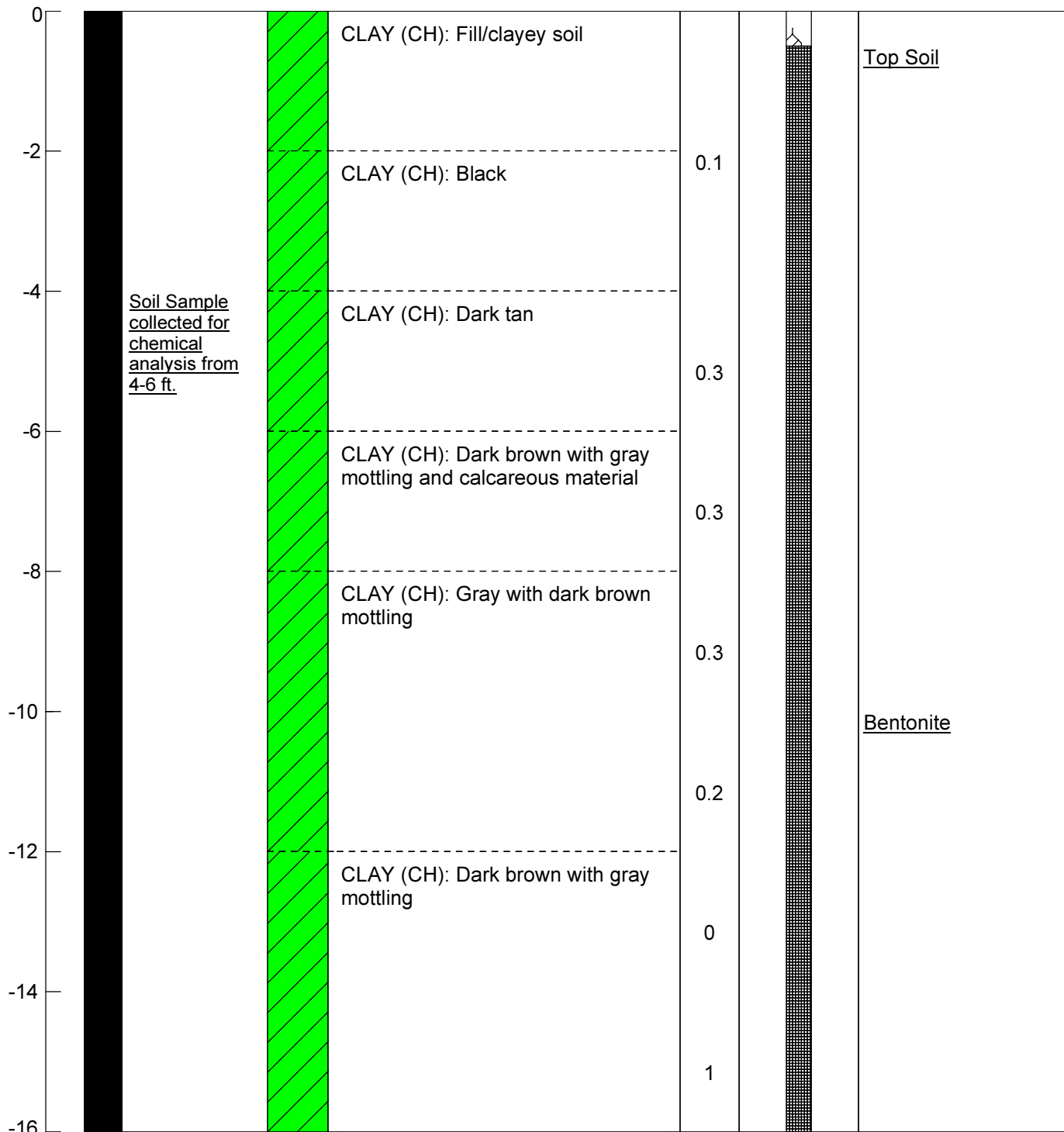
Date Drilled: 2/23/2017
Drilling Method: Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

Depth (ft.) Sample Interval Lithological Descriptions PID (ppm) Boring Schematic



Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



Continuously sampled.



TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-6

Sunnyside Park
3502 Bellfort Avenue
Houston, Texas 77051

Date Drilled: 2/23/2017
Drilling Method Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

Depth (ft.) Sample Interval Lithological Descriptions PID (PPM) Boring Schematic

0			FILL: Black			<u>Top Soil</u>
-2	<u>Soil Sample collected for chemical analysis from 2-4 ft.</u>		CLAY (CH): Black	0.2		
-4			CLAY (CH): Dark gray to light gray clay and light brown mottling	0.1		
-6			CLAY (CH): Light gray clay with Mn staining and light brown mottling	0.2		
-8			CLAY (CH): Gray sandy clay with light brown mottling	0.1		
-10			CLAY (CH): Gray sandy clay with light brown mottling	0		
-12			CLAY (CH): Light brown with gray mottling and calcareous material	0		<u>Bentonite</u>
-14				0		
-16				0.1		

Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.

 Continuously sampled.



TERRAIN SOLUTIONS, INC.
10103 FONDREN ROAD, SUITE 426
HOUSTON, TEXAS 77096

Monitor Well
ST-1

Sunnyside Park
3502 Belfort Street
Houston, Texas 77051

Date Drilled: 2/22/2017

Driller: Mathers Env. Drill. Inc.

Initial Groundwater
level (Top of Casing)

Drilling Method: Geoprobe

2-inch diameter boring

TOC Elevation: N/A

4-foot x 2-inch acetate liner

Logged by: Matthew Cowan

Depth (ft.)	Sample Interval	Lithological Descriptions	PID (PPM)	Groundwater Level	Temporary Monitoring Well Schematic
0		CLAY (CH): Dark gray to black	0		
-2			0		
-4	Soil sample collected for chemical analysis from 2-4 ft.		0		
-6		CLAY (CH): Light gray, light tan mottling and Mn staining @ 8-12 ft.	0		1-inch Sched 40 PVC Riser
-8			0		
-10			0		
-12		CLAY (CH): Light tan with gray mottling and Mn staining	0		
-14			0		
-16		SILTY CLAY (CL): Light gray silty clay with light brown mottling	0		
-18			0		
-20		SANDY CLAY (CL): Light brown sandy clay, moist, calcareous material @ 20-22 ft.	0		
-22			0		1-inch Sched 40 PVC 0.01-inch Slot Screen
-24		CLAYEY SAND (SC): Light gray wet transitioning into sand and finally hard red brown clay at the bottom	0		

Soil samples collected continuously.

Depth to initial groundwater occurrence: 23 ft.

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



TERRAIN SOLUTIONS, INC.
10103 FONDREN ROAD, SUITE 426
HOUSTON, TEXAS 77096

Monitor Well
ST-2

Sunnyside Park
3502 Belfort Street
Houston, Texas 77051

Date Drilled: 2/22/2017

Driller: Mathers Env. Drill. Inc.

Initial Groundwater
level (Top of Casing)

Drilling Method: Geoprobe

2-inch diameter boring

TOC Elevation: N/A

4-foot x 2-inch acetate liner

Logged by: Matthew Cowan

Depth (ft.)	Sample Interval	Lithological Descriptions	PID (PPM)	Groundwater Level	Temporary Monitoring Well Schematic
0		CLAY (CH): Fill material, light gray with brown mottling	0		
-2		CLAY (CH): Black transitioning into a dark gray clay with Mn staining	0		
-4	Soil sample collected for chemical analysis from 2-4 ft. @ 15:00	CLAY (CH): Light gray with light brown mottling	0		1-inch Sched 40 PVC Riser
-6			0		
-8		CLAY (CH): Light brown with Mn streaks and calcareous material, gray mottling @ 10-14ft.	0		
-10			0		
-12			0		
-14		CLAY (CH): Light gray with light brown mottling and calcareous material	0		
-16		CLAY (CH): Brown with gray mottling and calcareous material, gray mottling @ 16-20 ft.	0		
-18			0		
-20			0		
-22		CLAY (CH): Brown	0		1-inch Sched 40 PVC 0.01-inch Slot Screen
-24		SAND (SP): Brown, moist to wet	0		

 Soil samples collected continuously.

Depth to initial groundwater occurrence: 23 ft.

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



TERRAIN SOLUTIONS, INC.
10103 FONDREN ROAD, SUITE 426
HOUSTON, TEXAS 77096

Monitor Well
ST-3

Sunnyside Park
3502 Belfort Street
Houston, Texas 77051

Date Drilled: 2/22/2017

Driller: Mathers Env. Drill. Inc.

Initial Groundwater
level (Top of Casing)

Drilling Method: Geoprobe

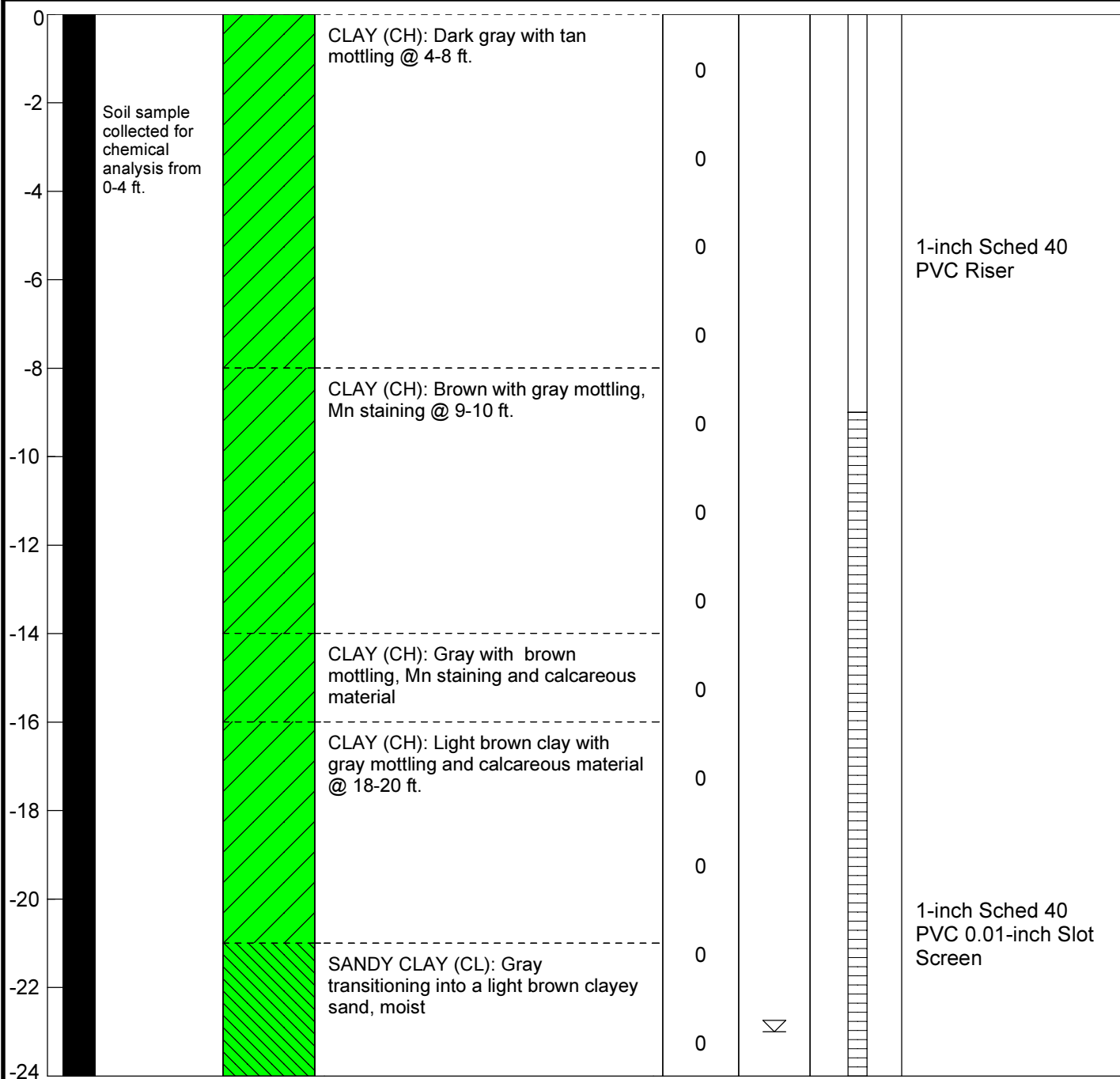
2-inch diameter boring

Logged by: Matthew Cowan

TOC Elevation: N/A

4-foot x 2-inch acetate liner

Depth (ft.)	Sample Interval	Lithological Descriptions	PID (PPM)	Groundwater Level	Temporary Monitoring Well Schematic
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Soil samples collected continuously.

Depth to initial groundwater occurrence: 23 ft.

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



TERRAIN SOLUTIONS, INC.
10103 FONDREN ROAD, SUITE 426
HOUSTON, TEXAS 77096

Monitor Well
ST-4

Sunnyside Park
3502 Belfort Street
Houston, Texas 77051

Date Drilled: 2/22/2017

Driller: Mathers Env. Drill. Inc.

Initial Groundwater
level (Top of Casing)

Drilling Method: Geoprobe

2-inch diameter boring

TOC Elevation: N/A

4-foot x 2-inch acetate liner

Logged by: Matthew Cowan

Depth (ft.)	Sample Interval	Lithological Descriptions	PID (PPM)	Groundwater Level	Temporary Monitoring Well Schematic
0		CLAY (CH): Dark gray transitioning to black	0		
-2			0		
-4	Soil sample collected for chemical analysis from 2-4 ft.		0		
-6		CLAY (CH): Light gray with light tan mottling and Mn staining	0		1-inch Sched 40 PVC Riser
-8			0		
-10			0		
-12		CLAY (CH): Light tan with gray mottling and Mn staining	0		
-14			0		
-16		SILTY CLAY (CL): Light gray with light brown mottling	0		
-18			0		
-20		SANDY CLAY (CL): Light brown containing calcareous material @ 20-22 ft., moist	0		
-22			0		1-inch Sched 40 PVC 0.01-inch Slot Screen
-24		CLAYEY SAND (SC): Light gray with a hard red brown clay at the bottom, wet	0		

Soil samples collected continuously.

Depth to initial groundwater occurrence: 23 ft.

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-1

Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051

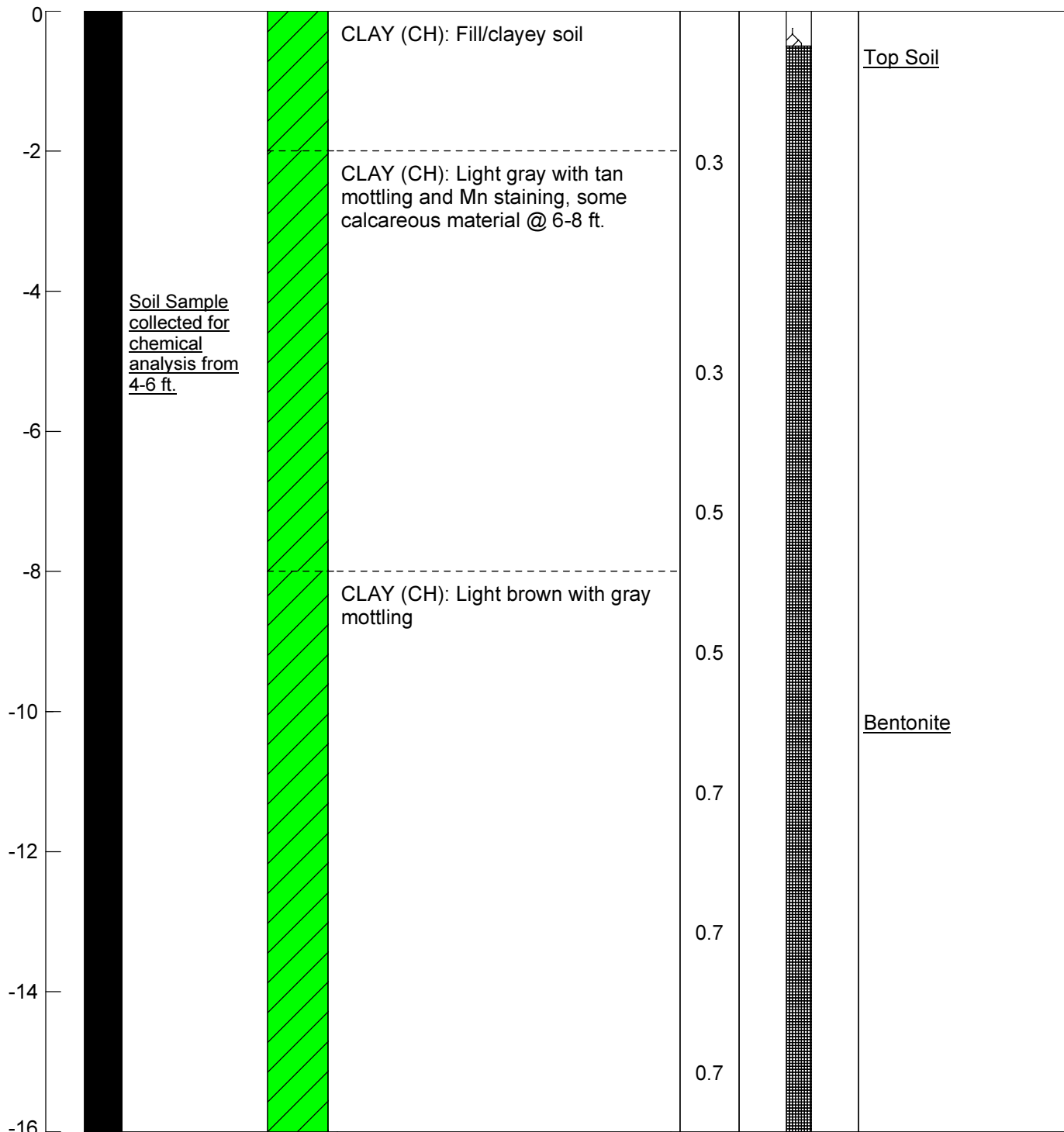
Date Drilled: 2/23/2017
Drilling Method: Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

Depth (ft.) Sample Interval Lithological Descriptions PID (ppm) Boring Schematic



Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



Continuously sampled.



TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-2

Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051

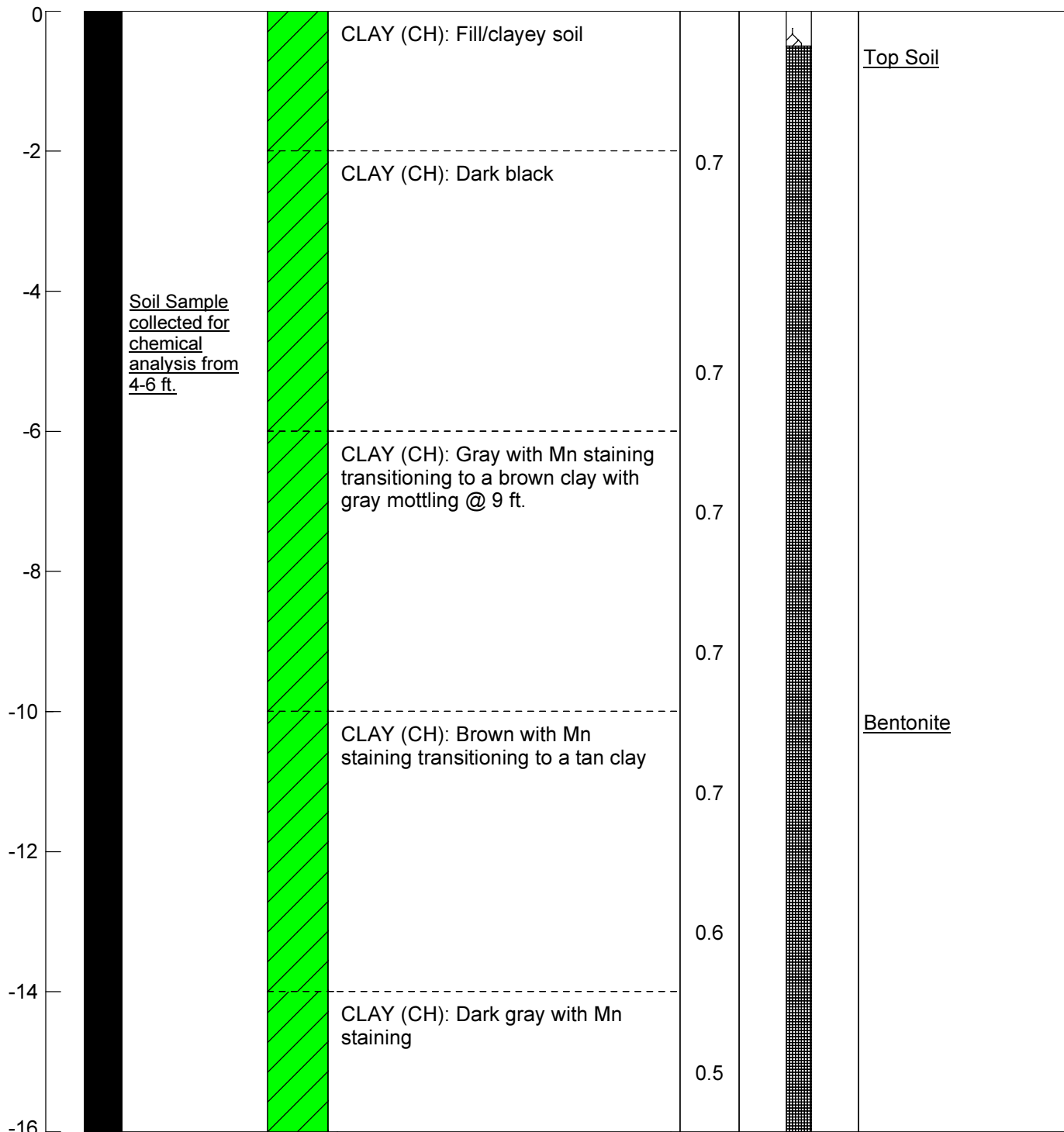
Date Drilled: 2/23/2017
Drilling Method: Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

<u>Depth (ft.)</u>	<u>Sample Interval</u>	<u>Lithological Descriptions</u>	<u>PID (ppm)</u>	<u>Boring Schematic</u>
--------------------	------------------------	----------------------------------	------------------	-------------------------



Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



Continuously sampled.



TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-3

Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051

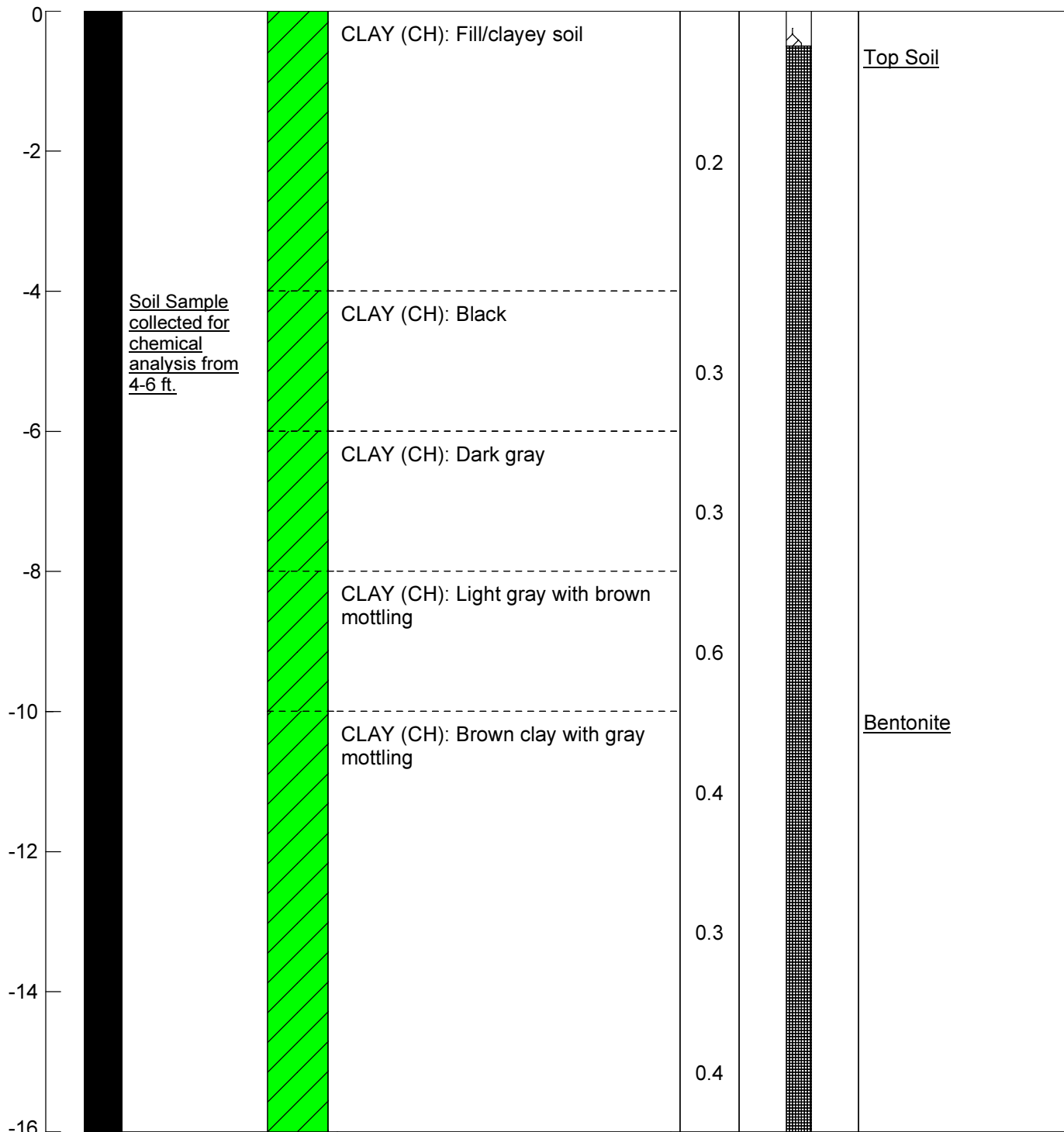
Date Drilled: 2/23/2017
Drilling Method: Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

<u>Depth (ft.)</u>	<u>Sample Interval</u>	<u>Lithological Descriptions</u>	<u>PID (ppm)</u>	<u>Boring Schematic</u>
--------------------	------------------------	----------------------------------	------------------	-------------------------



Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.

 Continuously sampled.



TERRAIN SOLUTIONS, INC.
10103 Fondren Road, Suite 426
Houston, Texas 77096

SB-4

Sunnyside Park
3502 Bellfort Street
Houston, Texas 77051

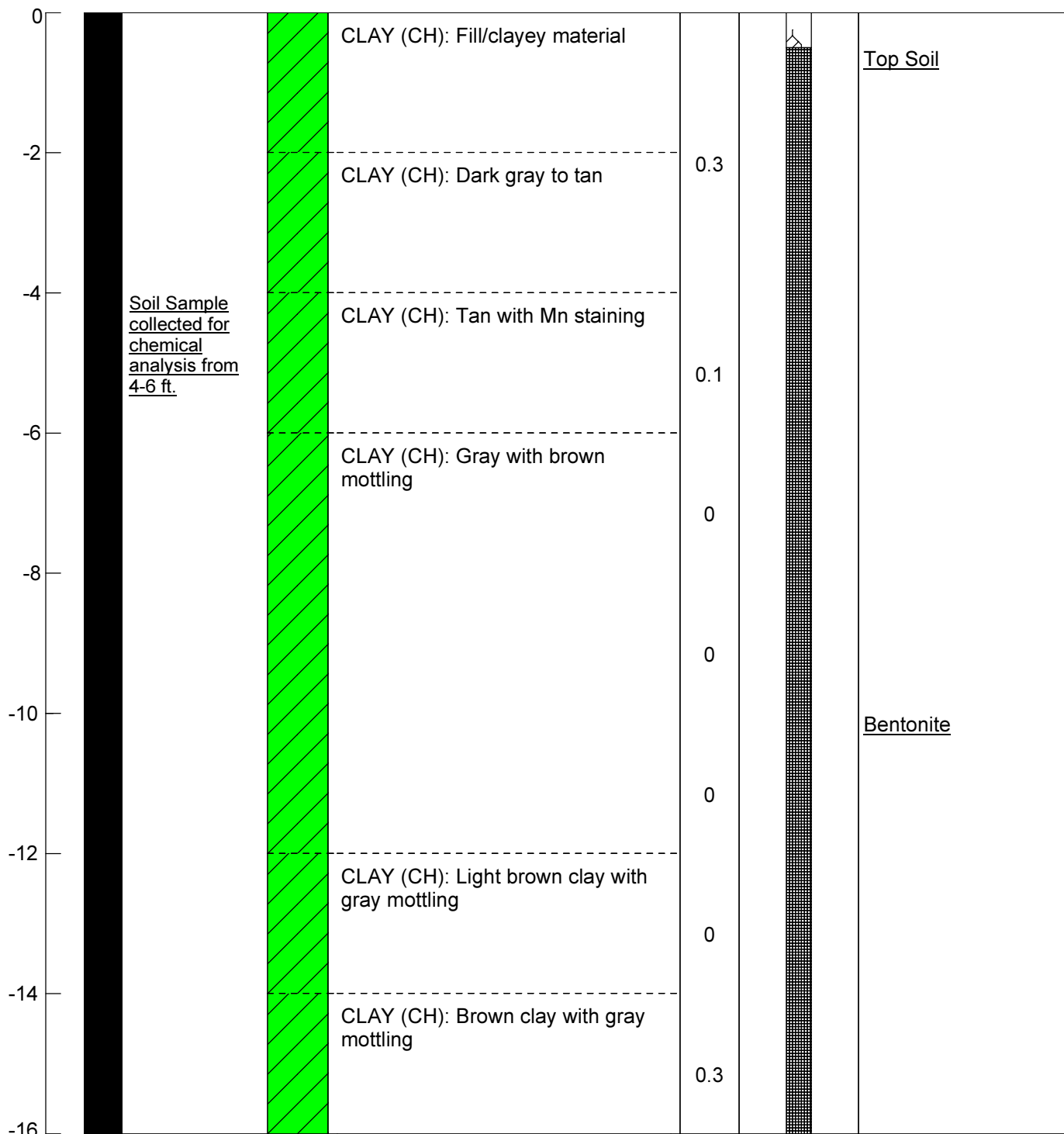
Date Drilled: 2/23/2017
Drilling Method: Geoprobe
Surface Elevation (MSL): N/A
Logged by: M. Cowan

2-inch diameter boring

Driller: Mathers Env. Drill. Inc.

Sample Type: 4-foot x 2-inch Acetate Sampling Tubes

<u>Depth (ft.)</u>	<u>Sample Interval</u>	<u>Lithological Descriptions</u>	<u>PID (ppm)</u>	<u>Boring Schematic</u>
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Depth to groundwater: Groundwater not encountered

THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.

 Continuously sampled.

APPENDIX D

ANALYSIS RESULTS SUMMARY TABLES



SUNNYSIDE ENVIRONMENTAL MEDIA ASSESSMENT
3502 BELLFORT AVE., HOUSTON, TX 77051
TSI PROJECT NO. 170209-01B
STORMWATER SEDIMENT SAMPLE RESULTS

BORING / DEPTH (FEET)	DATE	TPH (mg/kg) Method 1005			Volatile Organic Compounds Method 8260	Semivolatile Organic Compounds Method 8270	RCRA METALS (mg/kg) Method 6010/7470								pH Method 150.1
		C6 – C12	C12 – C28	C28 – C35			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	
SPSD-1	2/14/2017	<31.9	<27.3	<23.8	All Analytes Are Below Sample Detection Limits	All Analytes Are Below Sample Detection Limits	5.78	77.4	0.233	8.91	12.8	0.024	<0.135	0.926	8.32
SPSD-2	2/14/2017	<36.3	<31.1	<27.1			12.5	244	1.71	7.32	22.7	0.16	<0.153	4.27	7.95
SPSD-3	2/14/2017	<35	<30	<26.1			1.87	159	0.195	7.4	4.83	0.022	<0.148	0.709	7.95
SPSD-4	2/14/2017	<36.6	<31.3	<27.3			<0.154	5.18	<0.062	0.449	0.457	0.02	<0.154	0.051	7.81
SPSD-5	2/14/2017	<32.5	<27.8	<24.3			2.7	131	0.081	5.47	2.35	0.016	<0.137	0.244	8.59
SPSD-6	2/14/2017	<42.9	<36.8	<32.1			4.48	275	0.562	12.5	39.3	0.082	<0.181	0.937	7.84
SRSD-7	2/14/2017	<33.8	<28.9	<25.2			2.04	52.9	0.182	6.6	15.1	0.02	<0.142	0.526	7.86
SRSD-8	2/14/2017	<29.5	<25.2	<22			5.93	92.8	0.073	9.22	5.58	0.012	<0.124	0.52	8.34
SRSD-9	2/14/2017	<35.6	<30.5	<26.6			5.86	177	0.096	6.66	9.25	0.008	<0.150	0.708	9.15
SRSD-10	2/14/2017	<34.1	<29.3	<25.5		All Analytes Are Below Sample Detection Limits Except: Bis(2-ethyl hexyl) phthalate=0.604	4.33	269	0.079	8.49	14.2	0.034	<0.144	0.641	8.28
Red-lettered Concentrations Indicate Exceedance of the TCEQ Protective Concentration Levels (PCLs)															
Tier 1 Protective Concentration Levels - Residential Soils - 30 acre source area (March 2016) TOT SOIL COMB		1100	2000	2000		Bis(2-ethylhexyl)phthalate=43	24	8100	51	27000	500	5.5	310	97	

SUNNYSIDE COMAL STORMWATER ASSESSMENT
3502, BELLFORT AVE., HOUSTON, TX 77051
TSI PROJECT NO. 170318-01J
SURFACE WATER SAMPLE RESULTS

MONITOR WELL	DATE	TPH (mg/L) Method 1005			Volatile Organic Compounds (mg/L) Method 8260	Semivolatile Organic Compounds (mg/L) Method 8270	RCRA METALS (mg/L) Method 6010/7470								
		C6 – C12	>C12 – C28	>C28 – C35			Arsenic	Barium	Cadmium	Chromium	Total Lead (Unfiltered)	Total Lead (Filtered)	Mercury	Selenium	Silver
SPSW-1	2/14/2017	<0.607	<0.791	<0.690	All Analytes Are Below Sample Detection Limits	All Analytes Are Below Sample Detection Limits	<0.004	0.056	<0.002	<0.004	<0.004		<0.00006	0.006	<0.001
SPSW-2	2/14/2017	<0.640	<0.834	<0.728			<0.004	0.07	<0.002	<0.004	<0.004		<0.00006	0.006	<0.001
SPSW-3	2/14/2017	<0.601	<0.783	<0.683			<0.004	0.067	<0.002	<0.004	<0.004		<0.00006	0.004	<0.001
SPSW-4	2/14/2017	<0.594	<0.774	<0.675			<0.004	0.049	<0.002	<0.004	<0.004		<0.00006	0.004	<0.001
SPSW-5	2/14/2017	<0.614	<0.800	<0.698			<0.004	0.061	<0.002	<0.004	<0.004		<0.00006	0.008	<0.001
SPSW-6	2/14/2017	<0.620	<0.808	<0.705			<0.004	0.265	<0.002	0.004	0.033		<0.00006	0.012	<0.001
SRSW-7	2/14/2017	<0.660	<0.860	<0.750			<0.004	0.092	<0.002	<0.004	0.005		<0.00006	0.01	<0.001
SRSW-9	2/14/2017	<0.627	<0.817	<0.713			<0.004	0.388	<0.002	0.009	0.008		<0.00006	0.016	0.001
SRSW-10	2/14/2017	<0.620	<0.808	<0.705			<0.004	0.516	<0.002	<0.004	<0.004		<0.00006	<0.004	0.001
SC-1A #	3/29/2017										0.031				
SC--1B #	3/29/2017											<0.004			
Red-lettered Concentrations Indicate Exceedance of the TCEQ Protective Concentration Levels (PCLs) # = Same water sample															
Tier 1 Protective Concentration Levels (March 2016) ^{GW} GW _{ING}		0.98	0.98	0.98			0.01	2.0	0.005	0.100	0.015		0.002	0.050	0.120

SUNNYSIDE ENVIRONMENTAL MEDIA ASSESSMENT
3502, BELLFORT AVE., HOUSTON, TX 77051
TSI PROJECT NO. 170209-01B
AIR SAMPLE RESULTS

SAMPLE ID	DATE	Volatile Organic Compounds Method EPA TO-15 (ug/M3)	SILICA (NIOSH 7500) (mg/M3)
N-01	2/20/2017	All Analytes are Below Reporting Limits	Not Tested
NW-01	2/20/2017	All Analytes are Below Reporting Limits Except: Methylene chloride=4.40	Not Tested
S-01	2/20/2017	All Analytes are Below Reporting Limits Except: Methylene chloride=5.20	Not Tested
SE-01	2/20/2017	All Analytes are Below Reporting Limits	Not Tested
S-01-NW	3/1/2017	Not Tested	<0.0142
S-02-W	3/1/2017	Not Tested	<0.0142
S-03-SW	3/1/2017	Not Tested	<0.0143
Red-lettered Concentrations Indicate Exceedance of the TCEQ Protective Concentration Levels (PCLs)			
		TCEQ Critical Chronic Effect Screening Level (ESL) = 350	Recommended Exposure Limit = 0.05

SUNNYSIDE ENVIRONMENTAL MEDIA ASSESSMENT
3502, BELLFORT AVE., HOUSTON, TX 77051
TSI PROJECT NO. 170209-01B
GROUNDWATER SAMPLE RESULTS

MONITOR WELL	DATE	TPH (mg/L) Method 1005			Volatile Organic Compounds (mg/L) Method 8260	Semivolatile Organic Compounds (mg/L) Method 8270	Dissolved RCRA METALS (mg/L) Method 6010/7470								
		C6 – C12	>C12 – C28	>C28 – C35			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	pH
ST-1	2/22/2017	<0.614	<0.800	<0.698	All Analytes are Below Reporting Limits	All Analytes are Below Reporting Limits	<0.004	0.25	<0.002	<0.004	<0.004	<0.0003	<0.004	<0.001	7.65
ST-2	2/22/2017	<0.601	<0.783	<0.683			<0.004	0.338	<0.002	<0.004	<0.004	<0.0003	<0.004	<0.001	7.45
ST-3	2/22/2017	<0.614	<0.800	<0.698			<0.004	0.54	<0.002	<0.004	<0.004	0.00011	<0.004	<0.001	7.38
ST-4	2/22/2017	<0.620	<0.808	<0.705			<0.004	0.239	<0.002	<0.004	<0.004	<0.0003	<0.004	<0.001	7.63
Red-lettered Concentrations Indicate Exceedance of the TCEQ Protective Concentration Levels (PCLs)															
Tier 1 Protective Concentration Levels (March 2016) ^{GW} GW _{ING}		0.98	0.98	0.98			0.01	2.0	0.005	0.100	0.015	0.002	0.050	0.120	

SUNNYSIDE ENVIRONMENTAL MEDIA ASSESSMENT
3502 BELLFORT AVE., HOUSTON, TX 77051
TSI PROJECT NO. 170209-01B
SUBSURFACE SOIL SAMPLE RESULTS

BORING / DEPTH (FEET)	DATE	TPH (mg/kg) Method 1005			Volatile Organic Compounds Method 8260	Semivolatile Organic Compounds Method 8270	RCRA METALS (mg/kg) Method 6010/7470								pH Method 150.1
		C6 – C12	>C12 – C28	>C28 – C35			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	
ST-1 (2-4)	2/22/2017	<29.1	<24.9	<21.7	All Analytes are Below Reporting Limits Except: MEK=0.002 for SB- 4	All Analytes are Below Reporting Limits	2.87	137	0.286	10.5	4.3	0.009	<0.614	0.571	8.44
ST-2 (2-4)	2/22/2017	<27.6	<23.6	<20.6			6.53	213	0.387	13	15.1	0.018	<0.581	1.21	8.21
ST-3 (0-4)	2/22/2017	<28.7	<24.5	<21.4			6.3	164	0.398	16.9	12	0.027	<0.605	0.947	8.83
ST-4 (2-4)	2/22/2017	<28.1	<24.1	<21			2.45	129	0.27	10.2	4.8	0.01	<0.593	0.582	8.1
SB-1 (4-6)	2/23/2017	<28.4	<24.3	<21.2			2.24	222	<0.240	17.6	<0.599	0.006	<0.599	0.316	8.91
SB-2 (4-6)	2/23/2017	<11.3	<9.69	<8.45			4.57	178	0.268	11.7	4.64	0.008	<0.612	0.809	8.06
SB-3 (4-6)	2/23/2017	<28.6	<24.5	<21.4			2.79	85.8	<0.241	10.2	5.79	0.008	<0.603	0.528	8.42
SB-4 (4-6)	2/23/2017	<29.3	<25.1	<21.9			5.16	101	0.306	12	4.46	0.011	<0.617	0.838	8.88
SB-5 (4-6)	2/23/2017	<27.8	<23.8	<20.8			3.72	269	<0.234	13.3	1.11	0.01	<0.586	0.15	8.79
SB-6 (2-4)	2/23/2017	<28.9	<24.7	<21.6			4.21	154	0.306	13.1	3.52	0.008	<0.609	0.837	8.33
Red-lettered Concentrations Indicate Exceedance of the TCEQ Protective Concentration Levels (PCLs)															
Tier 1 Protective Concentration Levels - Residential Soils - 30 acre source area (March 2016) TOT SOIL COMB		1100	2000	2000	MEK= 33,000		24	8100	51	27000	500	5.5	310	97	

APPENDIX E

LABORATORY REPORTS



TERRAIN SOLUTIONS, INC.

Laboratory Analysis Report

Total Number of Pages: 189

Job ID : 17020774



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Report To :	Client Name:	Terrain Solutions, Inc.	P.O.#:
	Attn:	Glenn Lowenstein	Sample Collected By: Glenn Lowenstein
	Client Address:	10103 Fondren Rd. Ste 426	Date Collected: 02/14/17
	City, State, Zip:	Houston, Texas, 77096	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
SPSW-1	Water	17020774.01
SPSD-1	Soil	17020774.02
SPSW-2	Water	17020774.03
SPSD-2	Soil	17020774.04
SPSW-3	Water	17020774.05
SPSD-3	Soil	17020774.06
SPSW-4	Water	17020774.07
SPSD-4	Soil	17020774.08
SPSW-5	Water	17020774.09
SPSD-5	Soil	17020774.10
SPSW-6	Water	17020774.11
SPSD-6	Soil	17020774.12
SRSW-7	Water	17020774.13
SRSD-7	Soil	17020774.14
SRSD-8	Soil	17020774.15
SRSD-9	Soil	17020774.16
SRSW-9	Water	17020774.17
SRSD-10	Soil	17020774.18
SRSW-10	Water	17020774.19

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 2/23/2017



This Laboratory is NELAP (T104704213-16-15) accredited. Effective: 10/15/2016; Expires: 03/31/2017

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 02/15/2017 08:06

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:47
7440-39-3	Barium	0.056		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 00:47
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 00:47
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:47
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 00:47
7782-49-2	Selenium	0.006	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:47
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 00:47

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:25

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 16:50
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 16:50
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 16:50
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 16:50
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 16:50
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 16:50
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 16:50
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 16:50
17060-07-0	1,2-Dichloroethane-d4	121					70	130	%	1	02/16/17 16:50
1868-53-7	Dibromofluoromethan	117					70	130	%	1	02/16/17 16:50
2037-26-5	Toluene-d8(surr)	101					70	130	%	1	02/16/17 16:50
460-00-4	p-Bromofluorobenzen	113					70	130	%	1	02/16/17 16:50

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 18:26
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 18:26
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 18:26
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 18:26
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 18:26
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 18:26
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 18:26
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 18:26

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 18:26
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 18:26
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 18:26
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 18:26
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 18:26
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 18:26
118-79-6	2,4,6-Tribromophenol	49.8						19	122	%	1 02/21/17 18:26
13127-88-3	Phenol-d6(surr)	7.09	S2					10	130	%	1 02/21/17 18:26
132-60-8	2-Fluorobiphenyl(surr)	46.8						30	115	%	1 02/21/17 18:26
1718-51-0	p-Terphenyl-d14(surr)	46.1						18	137	%	1 02/21/17 18:26
367-12-4	2-Fluorophenol(surr)	12.5	S2					15	115	%	1 02/21/17 18:26
4165-60-0	Nitrobenzene-d5(surr)	51.2						23	120	%	1 02/21/17 18:26

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-1
A&B Job Sample ID: 17020774.01

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.607	U	0.607	1.38	0.66	1.5	60	mg/L	0.92	02/17/17 06:38
TPH-1005-2	>C12-C28 ¹	< 0.791	U	0.791	1.38	0.86	1.5	60	mg/L	0.92	02/17/17 06:38
TPH-1005-4	>C28-C35 ¹	< 0.690	U	0.690	1.38	0.75	1.5	60	mg/L	0.92	02/17/17 06:38
	Total C6-C35	<					----	----	mg/L	0.92	02/17/17 06:38
111-85-3	1-Chlorooctane(surr)	142	S1				59	122	%	0.92	02/17/17 06:38
3386-33-2	Chlorooctadecane(sur	148	S1				48	123	%	0.92	02/17/17 06:38

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	25.7					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021761
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021739

Sample Matrix: Soil
Date Collected: 02/14/2017 13:55
Date Received: 02/15/2017 08:06
Date Prepared: 02/17/2017 10:30

Analyst Initial: BRR

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	5.78		0.135	0.673	0.1	0.5	1000	mg/Kg	1	02/17/17 14:54
7440-39-3	Barium	77.4		2.69	13.5	0.1	0.5	50	mg/Kg	20	02/20/17 12:56
7440-43-9	Cadmium	0.233	J	0.054	0.673	0.04	0.5	750	mg/Kg	1	02/17/17 14:54
7440-47-3	Chromium	8.91		0.135	0.673	0.1	0.5	1000	mg/Kg	1	02/17/17 14:54
7439-92-1	Lead	12.8		0.135	0.673	0.1	0.5	2500	mg/Kg	1	02/17/17 14:54
7782-49-2	Selenium	< 0.135	U	0.135	0.673	0.1	0.5	1000	mg/Kg	1	02/17/17 14:54
7440-22-4	Silver	0.926		0.027	0.673	0.02	0.5	100	mg/Kg	1	02/17/17 14:54

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.024		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:23

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 13:55
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
123-91-1	1,4-Dioxane	< 0.079	U	0.079	0.336	0.075	0.32	1.6	mg/Kg	0.78	02/17/17 01:58
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
99-87-6	4-Isopropyltoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-25-2	Bromoform	< 0.00052	U	0.00052	0.005	0.0005	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
74-83-9	Bromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-00-3	Chloroethane	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 13:55
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
10061-01-5	cis-1,3-Dichloroprope	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
108-38-3&106-4	m- & p-Xylenes	< 0.001	U	0.001	0.01	0.001	0.01	0.1	mg/Kg	0.78	02/17/17 01:58
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
91-20-3	Naphthalene	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
10061-02-6	trans-1,3-Dichloropro	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.78	02/17/17 01:58
1330-20-7	Xylenes	< 0.001	U	0.001	0.005	0.001	0.005	0.15	mg/Kg	0.78	02/17/17 01:58
17060-07-0	1,2-Dichloroethane-d4	110						70 130	%	0.78	02/17/17 01:58
1868-53-7	Dibromofluoromethan	107						70 130	%	0.78	02/17/17 01:58
2037-26-5	Toluene-d8(surr)	103						70 130	%	0.78	02/17/17 01:58
460-00-4	p-Bromofluorobenzen	111						70 130	%	0.78	02/17/17 01:58

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SP5D-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Sample Matrix: Soil

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

Analyst Initial: PNS

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
95-50-1	1,2-Dichlorobenzene	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
541-73-1	1,3-Dichlorobenzene	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
106-46-7	1,4-Dichlorobenzene	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
95-95-4	2,4,5-Trichlorophenol	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
88-06-2	2,4,6-Trichlorophenol	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
120-83-2	2,4-Dichlorophenol	< 0.162	U	0.162	0.448	0.12	0.333	4	mg/Kg	1	02/20/17 21:59
105-67-9	2,4-Dimethylphenol	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
51-28-5	2,4-Dinitrophenol	< 0.162	U	0.162	0.448	0.12	0.333	4	mg/Kg	1	02/20/17 21:59
121-14-2	2,4-Dinitrotoluene	< 0.012	U	0.012	0.448	0.009	0.333	4	mg/Kg	1	02/20/17 21:59
606-20-2	2,6-Dinitrotoluene	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
91-58-7	2-Chloronaphthalene	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
95-57-8	2-Chlorophenol	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
91-57-6	2-Methylnaphthalene	< 0.404	U	0.404	0.448	0.30	0.333	4	mg/Kg	1	02/20/17 21:59
95-48-7	2-Methylphenol	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
88-75-5	2-Nitrophenol	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
108-39-4 & 106-	3- & 4-Methylphenols	< 0.175	U	0.175	0.898	0.13	0.667	8	mg/Kg	1	02/20/17 21:59
534-52-1	4,6-Dinitro-2-methylp	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
101-55-3	4-Bromophenyl pheny	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
59-50-7	4-Chloro-3-methylphe	< 0.188	U	0.188	0.448	0.14	0.333	4	mg/Kg	1	02/20/17 21:59
7005-72-3	4-Chlorophenyl pheny	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
100-02-7	4-Nitrophenol	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
83-32-9	Acenaphthene	< 0.202	U	0.202	0.448	0.15	0.333	4	mg/Kg	1	02/20/17 21:59
208-96-8	Acenaphthylene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
120-12-7	Anthracene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
56-55-3	Benzo(a)anthracene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
50-32-8	Benzo(a)pyrene	< 0.404	U	0.404	0.448	0.30	0.333	4	mg/Kg	1	02/20/17 21:59
205-99-2	Benzo(b)fluoranthene	< 0.404	U	0.404	0.448	0.30	0.333	4	mg/Kg	1	02/20/17 21:59
191-24-2	Benzo(g,h,i)perylene	< 0.538	U	0.538	0.448	0.40	0.333	4	mg/Kg	1	02/20/17 21:59
207-08-9	Benzo(k)fluoranthene	< 0.202	U	0.202	0.448	0.15	0.333	4	mg/Kg	1	02/20/17 21:59
111-91-1	Bis(2-chloroethoxy) m	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
111-44-4	Bis(2-chloroethyl) eth	< 0.404	U	0.404	0.448	0.30	0.333	4	mg/Kg	1	02/20/17 21:59
108-60-1	Bis(2-chloroisopropyl)	< 0.162	U	0.162	0.448	0.12	0.333	4	mg/Kg	1	02/20/17 21:59
117-81-7	Bis(2-ethylhexyl) phth	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
85-68-7	Butyl benzyl phthalate	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
218-01-9	Chrysene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
132-64-9	Dibenzofuran	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
84-66-2	Diethyl phthalate	< 0.188	U	0.188	0.448	0.14	0.333	4	mg/Kg	1	02/20/17 21:59
131-11-3	Dimethyl phthalate	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
84-74-2	Di-n-butyl phthalate	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
117-84-0	Di-n-octyl Phthalate	< 0.121	U,V1	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
206-44-0	Fluoranthene	< 0.229	U	0.229	0.448	0.17	0.333	4	mg/Kg	1	02/20/17 21:59
86-73-7	Fluorene	< 0.215	U	0.215	0.448	0.16	0.333	4	mg/Kg	1	02/20/17 21:59
118-74-1	Hexachlorobenzene	< 0.013	U	0.013	0.448	0.010	0.333	4	mg/Kg	1	02/20/17 21:59
87-68-3	Hexachlorobutadiene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
77-47-4	Hexachlorocyclopenta	< 0.162	U,V1	0.162	0.448	0.12	0.333	4	mg/Kg	1	02/20/17 21:59
67-72-1	Hexachloroethane	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
193-39-5	Indeno(1,2,3-cd)pyre	< 0.269	U	0.269	0.448	0.20	0.333	4	mg/Kg	1	02/20/17 21:59
78-59-1	Isophorone	< 0.175	U	0.175	0.448	0.13	0.333	4	mg/Kg	1	02/20/17 21:59
91-20-3	Naphthalene	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
98-95-3	Nitrobenzene	< 0.162	U	0.162	0.448	0.12	0.333	4	mg/Kg	1	02/20/17 21:59
62-75-9	N-Nitrosodimethylami	< 0.121	U	0.121	0.448	0.09	0.333	4	mg/Kg	1	02/20/17 21:59
621-64-7	N-nitroso-di-n-propyla	< 0.135	U	0.135	0.448	0.10	0.333	4	mg/Kg	1	02/20/17 21:59
87-86-5	Pentachlorophenol	< 0.188	U	0.188	0.448	0.14	0.333	4	mg/Kg	1	02/20/17 21:59
85-01-8	Phenanthrene	< 0.269	U	0.269	0.448	0.20	0.333	4	mg/Kg	1	02/20/17 21:59
108-95-2	Phenol	< 0.148	U	0.148	0.448	0.11	0.333	4	mg/Kg	1	02/20/17 21:59
129-00-0	Pyrene	< 0.242	U	0.242	0.448	0.18	0.333	4	mg/Kg	1	02/20/17 21:59
118-79-6	2,4,6-Tribromophenol	73.5						10 120	%	1	02/20/17 21:59
13127-88-3	Phenol-d6(surr)	65.4						15 120	%	1	02/20/17 21:59
132-60-8	2-Fluorobiphenyl(surr)	61						30 115	%	1	02/20/17 21:59
1718-51-0	p-Terphenyl-d14(surr)	52.4						30 140	%	1	02/20/17 21:59
367-12-4	2-Fluorophenol(surr)	64.8						20 115	%	1	02/20/17 21:59
4165-60-0	Nitrobenzene-d5(surr)	59.8						20 120	%	1	02/20/17 21:59

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 13:55

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.32					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-1
A&B Job Sample ID: 17020774.02

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 13:55

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 25.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 31.9	U	31.9	33.6	23.7	25	1000	mg/Kg	1	02/17/17 14:24
TPH-1005-2	>C12-C28 ¹	< 27.3	U	27.3	33.6	20.3	25	1000	mg/Kg	1	02/17/17 14:24
TPH-1005-4	>C28-C35 ¹	< 23.8	U	23.8	33.6	17.7	25	1000	mg/Kg	1	02/17/17 14:24
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 14:24
111-85-3	1-Chlorooctane(surr)	105					60	143	%	1	02/17/17 14:24
3386-33-2	Chlorooctadecane(sur)	104					60	150	%	1	02/17/17 14:24

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:50
7440-39-3	Barium	0.07		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 00:50
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 00:50
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:50
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 00:50
7782-49-2	Selenium	0.006	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:50
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 00:50

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:27

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 17:24
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 17:24
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 17:24
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 17:24
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 17:24
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 17:24
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:24
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 17:24
17060-07-0	1,2-Dichloroethane-d4	117						70 130	%	1	02/16/17 17:24
1868-53-7	Dibromofluoromethan	123						70 130	%	1	02/16/17 17:24
2037-26-5	Toluene-d8(surr)	100						70 130	%	1	02/16/17 17:24
460-00-4	p-Bromofluorobenzen	113						70 130	%	1	02/16/17 17:24

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

Analyst Initial: PNS

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:09
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:09
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:09
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:09
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:09
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 19:09
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 19:09
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:09

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:09
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:09
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:09
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:09
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:09
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 19:09
118-79-6	2,4,6-Tribromophenol	59.8					19	122	%	1	02/21/17 19:09
13127-88-3	Phenol-d6(surr)	8.72	S2				10	130	%	1	02/21/17 19:09
132-60-8	2-Fluorobiphenyl(surr)	42.7					30	115	%	1	02/21/17 19:09
1718-51-0	p-Terphenyl-d14(surr)	45.6					18	137	%	1	02/21/17 19:09
367-12-4	2-Fluorophenol(surr)	15.4					15	115	%	1	02/21/17 19:09
4165-60-0	Nitrobenzene-d5(surr)	48.5					23	120	%	1	02/21/17 19:09

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-2
A&B Job Sample ID: 17020774.03

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.640	U	0.640	1.46	0.66	1.5	60	mg/L	0.97	02/17/17 07:04
TPH-1005-2	>C12-C28 ¹	< 0.834	U	0.834	1.46	0.86	1.5	60	mg/L	0.97	02/17/17 07:04
TPH-1005-4	>C28-C35 ¹	< 0.728	U	0.728	1.46	0.75	1.5	60	mg/L	0.97	02/17/17 07:04
	Total C6-C35	<					----	----	mg/L	0.97	02/17/17 07:04
111-85-3	1-Chlorooctane(surr)	105					59	122	%	0.97	02/17/17 07:04
3386-33-2	Chlorooctadecane(sur	113					48	123	%	0.97	02/17/17 07:04

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	34.8					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021761
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021739

Sample Matrix: Soil
Date Collected: 02/14/2017 14:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/17/2017 10:30

Analyst Initial: BRR

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	12.5		0.153	0.767	0.1	0.5	1000	mg/Kg	1	02/20/17 12:31
7440-39-3	Barium	244		3.07	15.3	0.1	0.5	50	mg/Kg	20	02/17/17 20:15
7440-43-9	Cadmium	1.71		0.061	0.767	0.04	0.5	750	mg/Kg	1	02/17/17 20:12
7440-47-3	Chromium	7.32		0.153	0.767	0.1	0.5	1000	mg/Kg	1	02/17/17 20:12
7439-92-1	Lead	22.7		0.153	0.767	0.1	0.5	2500	mg/Kg	1	02/17/17 20:12
7782-49-2	Selenium	< 0.153	U	0.153	0.767	0.1	0.5	1000	mg/Kg	1	02/17/17 20:12
7440-22-4	Silver	4.27		0.031	0.767	0.02	0.5	100	mg/Kg	1	02/17/17 20:12

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.160		0.002	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:26

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 14:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
71-55-6	1,1,1-Trichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
79-34-5	1,1,2,2-Tetrachloroet	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
79-00-5	1,1,2-Trichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-34-3	1,1-Dichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
563-58-6	1,1-Dichloropropene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
96-18-4	1,2,3-Trichloropropan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
120-82-1	1,2,4-Trichlorobenzen	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
95-63-6	1,2,4-Trimethylbenze	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
96-12-8	1,2-Dibromo-3-chloro	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
106-93-4	1,2-Dibromoethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
95-50-1	1,2-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
107-06-2	1,2-Dichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
78-87-5	1,2-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
108-67-8	1,3,5-Trimethylbenze	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
541-73-1	1,3-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
142-28-9	1,3-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
106-46-7	1,4-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
123-91-1	1,4-Dioxane	< 0.072	U	0.072	0.309	0.075	0.32	1.6	mg/Kg	0.63	02/17/17 02:31
594-20-7	2,2-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
95-49-8	2-Chlorotoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
106-43-4	4-Chlorotoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
99-87-6	4-Isopropyltoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
71-43-2	Benzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
108-86-1	Bromobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
74-97-5	Bromochloromethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-27-4	Bromodichloromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-25-2	Bromoform	< 0.00048	U	0.00048	0.005	0.0005	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
74-83-9	Bromomethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
56-23-5	Carbon tetrachloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
108-90-7	Chlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-00-3	Chloroethane	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
67-66-3	Chloroform	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 14:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
156-59-2	cis-1,2-Dichloroethyle	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
10061-01-5	cis-1,3-Dichloroprope	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
124-48-1	Dibromochloromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
74-95-3	Dibromomethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
100-41-4	Ethylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
98-82-8	Isopropylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
108-38-3&106-4	m- & p-Xylenes	< 0.00097	U	0.00097	0.01	0.001	0.01	0.1	mg/Kg	0.63	02/17/17 02:31
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-09-2	Methylene chloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
91-20-3	Naphthalene	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
104-51-8	n-Butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
103-65-1	n-Propylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
95-47-6	o-Xylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
135-98-8	sec-Butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
100-42-5	Styrene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
98-06-6	t-butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
127-18-4	Tetrachloroethylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
108-88-3	Toluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
156-60-5	trans-1,2-Dichloroethy	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
10061-02-6	trans-1,3-Dichloropro	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
79-01-6	Trichloroethylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-69-4	Trichlorofluoromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
75-01-4	Vinyl Chloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.63	02/17/17 02:31
1330-20-7	Xylenes	< 0.00097	U	0.00097	0.005	0.001	0.005	0.15	mg/Kg	0.63	02/17/17 02:31
17060-07-0	1,2-Dichloroethane-d4	109					70	130	%	0.63	02/17/17 02:31
1868-53-7	Dibromofluoromethan	103					70	130	%	0.63	02/17/17 02:31
2037-26-5	Toluene-d8(surr)	104					70	130	%	0.63	02/17/17 02:31
460-00-4	p-Bromofluorobenzen	114					70	130	%	0.63	02/17/17 02:31

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
95-50-1	1,2-Dichlorobenzene	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
541-73-1	1,3-Dichlorobenzene	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
106-46-7	1,4-Dichlorobenzene	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
95-95-4	2,4,5-Trichlorophenol	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
88-06-2	2,4,6-Trichlorophenol	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
120-83-2	2,4-Dichlorophenol	< 0.184	U	0.184	0.511	0.12	0.333	4	mg/Kg	1	02/20/17 23:25
105-67-9	2,4-Dimethylphenol	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
51-28-5	2,4-Dinitrophenol	< 0.184	U	0.184	0.511	0.12	0.333	4	mg/Kg	1	02/20/17 23:25
121-14-2	2,4-Dinitrotoluene	< 0.014	U	0.014	0.511	0.009	0.333	4	mg/Kg	1	02/20/17 23:25
606-20-2	2,6-Dinitrotoluene	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
91-58-7	2-Chloronaphthalene	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
95-57-8	2-Chlorophenol	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
91-57-6	2-Methylnaphthalene	< 0.460	U	0.460	0.511	0.30	0.333	4	mg/Kg	1	02/20/17 23:25
95-48-7	2-Methylphenol	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
88-75-5	2-Nitrophenol	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
108-39-4 & 106-	3- & 4-Methylphenols	< 0.199	U	0.199	1.02	0.13	0.667	8	mg/Kg	1	02/20/17 23:25
534-52-1	4,6-Dinitro-2-methylp	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
101-55-3	4-Bromophenyl pheny	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
59-50-7	4-Chloro-3-methylphe	< 0.215	U	0.215	0.511	0.14	0.333	4	mg/Kg	1	02/20/17 23:25
7005-72-3	4-Chlorophenyl pheny	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
100-02-7	4-Nitrophenol	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
83-32-9	Acenaphthene	< 0.230	U	0.230	0.511	0.15	0.333	4	mg/Kg	1	02/20/17 23:25
208-96-8	Acenaphthylene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
120-12-7	Anthracene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
56-55-3	Benzo(a)anthracene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
50-32-8	Benzo(a)pyrene	< 0.460	U	0.460	0.511	0.30	0.333	4	mg/Kg	1	02/20/17 23:25
205-99-2	Benzo(b)fluoranthene	< 0.460	U	0.460	0.511	0.30	0.333	4	mg/Kg	1	02/20/17 23:25
191-24-2	Benzo(g,h,i)perylene	< 0.613	U	0.613	0.511	0.40	0.333	4	mg/Kg	1	02/20/17 23:25
207-08-9	Benzo(k)fluoranthene	< 0.230	U	0.230	0.511	0.15	0.333	4	mg/Kg	1	02/20/17 23:25
111-91-1	Bis(2-chloroethoxy) m	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
111-44-4	Bis(2-chloroethyl) eth	< 0.460	U	0.460	0.511	0.30	0.333	4	mg/Kg	1	02/20/17 23:25
108-60-1	Bis(2-chloroisopropyl)	< 0.184	U	0.184	0.511	0.12	0.333	4	mg/Kg	1	02/20/17 23:25
117-81-7	Bis(2-ethylhexyl) phth	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
85-68-7	Butyl benzyl phthalate	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
218-01-9	Chrysene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
132-64-9	Dibenzofuran	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
84-66-2	Diethyl phthalate	< 0.215	U	0.215	0.511	0.14	0.333	4	mg/Kg	1	02/20/17 23:25
131-11-3	Dimethyl phthalate	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
84-74-2	Di-n-butyl phthalate	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
117-84-0	Di-n-octyl Phthalate	< 0.138	U,V1	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
206-44-0	Fluoranthene	< 0.261	U	0.261	0.511	0.17	0.333	4	mg/Kg	1	02/20/17 23:25
86-73-7	Fluorene	< 0.245	U	0.245	0.511	0.16	0.333	4	mg/Kg	1	02/20/17 23:25
118-74-1	Hexachlorobenzene	< 0.015	U	0.015	0.511	0.010	0.333	4	mg/Kg	1	02/20/17 23:25
87-68-3	Hexachlorobutadiene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
77-47-4	Hexachlorocyclopenta	< 0.184	U,V1	0.184	0.511	0.12	0.333	4	mg/Kg	1	02/20/17 23:25
67-72-1	Hexachloroethane	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
193-39-5	Indeno(1,2,3-cd)pyre	< 0.307	U	0.307	0.511	0.20	0.333	4	mg/Kg	1	02/20/17 23:25
78-59-1	Isophorone	< 0.199	U	0.199	0.511	0.13	0.333	4	mg/Kg	1	02/20/17 23:25
91-20-3	Naphthalene	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
98-95-3	Nitrobenzene	< 0.184	U	0.184	0.511	0.12	0.333	4	mg/Kg	1	02/20/17 23:25
62-75-9	N-Nitrosodimethylami	< 0.138	U	0.138	0.511	0.09	0.333	4	mg/Kg	1	02/20/17 23:25
621-64-7	N-nitroso-di-n-propyla	< 0.153	U	0.153	0.511	0.10	0.333	4	mg/Kg	1	02/20/17 23:25
87-86-5	Pentachlorophenol	< 0.215	U	0.215	0.511	0.14	0.333	4	mg/Kg	1	02/20/17 23:25
85-01-8	Phenanthrene	< 0.307	U	0.307	0.511	0.20	0.333	4	mg/Kg	1	02/20/17 23:25
108-95-2	Phenol	< 0.169	U	0.169	0.511	0.11	0.333	4	mg/Kg	1	02/20/17 23:25
129-00-0	Pyrene	< 0.276	U	0.276	0.511	0.18	0.333	4	mg/Kg	1	02/20/17 23:25
118-79-6	2,4,6-Tribromophenol	73.8						10 120	%	1	02/20/17 23:25
13127-88-3	Phenol-d6(surr)	63						15 120	%	1	02/20/17 23:25
132-60-8	2-Fluorobiphenyl(surr)	67.1						30 115	%	1	02/20/17 23:25
1718-51-0	p-Terphenyl-d14(surr)	56.8						30 140	%	1	02/20/17 23:25
367-12-4	2-Fluorophenol(surr)	63.2						20 115	%	1	02/20/17 23:25
4165-60-0	Nitrobenzene-d5(surr)	67						20 120	%	1	02/20/17 23:25

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 14:20

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.95					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-2
A&B Job Sample ID: 17020774.04

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 14:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 34.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 36.3	U	36.3	38.3	23.7	25	1000	mg/Kg	1	02/17/17 14:53
TPH-1005-2	>C12-C28 ¹	< 31.1	U	31.1	38.3	20.3	25	1000	mg/Kg	1	02/17/17 14:53
TPH-1005-4	>C28-C35 ¹	< 27.1	U	27.1	38.3	17.7	25	1000	mg/Kg	1	02/17/17 14:53
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 14:53
111-85-3	1-Chlorooctane(surr)	109					60	143	%	1	02/17/17 14:53
3386-33-2	Chlorooctadecane(sur	108					60	150	%	1	02/17/17 14:53

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:53
7440-39-3	Barium	0.067		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 00:53
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 00:53
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:53
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 00:53
7782-49-2	Selenium	0.004	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:53
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 00:53

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:38

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 17:58
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 17:58
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 17:58
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 17:58
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 17:58
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 17:58
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 17:58
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 17:58
17060-07-0	1,2-Dichloroethane-d4	118						70 130	%	1	02/16/17 17:58
1868-53-7	Dibromofluoromethan	121						70 130	%	1	02/16/17 17:58
2037-26-5	Toluene-d8(surr)	104						70 130	%	1	02/16/17 17:58
460-00-4	p-Bromofluorobenzen	111						70 130	%	1	02/16/17 17:58

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:53
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:53
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:53
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:53
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 19:53
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 19:53
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 19:53
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:53

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 19:53
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 19:53
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 19:53
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 19:53
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 19:53
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 19:53
118-79-6	2,4,6-Tribromophenol	46					19	122	%	1	02/21/17 19:53
13127-88-3	Phenol-d6(surr)	7.27	S2				10	130	%	1	02/21/17 19:53
132-60-8	2-Fluorobiphenyl(surr)	38.1					30	115	%	1	02/21/17 19:53
1718-51-0	p-Terphenyl-d14(surr)	37.4					18	137	%	1	02/21/17 19:53
367-12-4	2-Fluorophenol(surr)	14	S2				15	115	%	1	02/21/17 19:53
4165-60-0	Nitrobenzene-d5(surr)	38.9					23	120	%	1	02/21/17 19:53

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-3
A&B Job Sample ID: 17020774.05

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.601	U	0.601	1.37	0.66	1.5	60	mg/L	0.91	02/17/17 11:26
TPH-1005-2	>C12-C28 ¹	< 0.783	U	0.783	1.37	0.86	1.5	60	mg/L	0.91	02/17/17 11:26
TPH-1005-4	>C28-C35 ¹	< 0.683	U	0.683	1.37	0.75	1.5	60	mg/L	0.91	02/17/17 11:26
	Total C6-C35	<					----	----	mg/L	0.91	02/17/17 11:26
111-85-3	1-Chlorooctane(surr)	111					59	122	%	0.91	02/17/17 11:26
3386-33-2	Chlorooctadecane(sur	114					48	123	%	0.91	02/17/17 11:26

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-3

Date: 2/23/2017

A&B Job Sample ID: 17020774.06

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	32.3					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSD-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021761
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021739

Sample Matrix: Soil
Date Collected: 02/14/2017 14:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/17/2017 10:30

Analyst Initial: BRR

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	1.87		0.148	0.739	0.1	0.5	1000	mg/Kg	1	02/20/17 12:34
7440-39-3	Barium	159		2.95	14.8	0.1	0.5	50	mg/Kg	20	02/17/17 20:22
7440-43-9	Cadmium	0.195	J	0.059	0.739	0.04	0.5	750	mg/Kg	1	02/17/17 20:18
7440-47-3	Chromium	7.40		0.148	0.739	0.1	0.5	1000	mg/Kg	1	02/17/17 20:18
7439-92-1	Lead	4.83		0.148	0.739	0.1	0.5	2500	mg/Kg	1	02/17/17 20:18
7782-49-2	Selenium	< 0.148	U	0.148	0.739	0.1	0.5	1000	mg/Kg	1	02/17/17 20:18
7440-22-4	Silver	0.709	J	0.03	0.739	0.02	0.5	100	mg/Kg	1	02/17/17 20:18

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-3

Date: 2/23/2017

A&B Job Sample ID: 17020774.06

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **Total Metals - Mercury**

Sample Matrix: Soil

Analytical Method: SW-846 7470A

Date Collected: 02/14/2017 14:45

QC Batch ID: Qb17021649

Date Received: 02/15/2017 08:06

Prep Method: SW-846 7470A

Date Prepared: 02/16/2017 11:00

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.022		0.001	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:30

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 14:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
71-55-6	1,1,1-Trichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
79-34-5	1,1,2,2-Tetrachloroet	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
79-00-5	1,1,2-Trichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-34-3	1,1-Dichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
563-58-6	1,1-Dichloropropene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
96-18-4	1,2,3-Trichloropropan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
120-82-1	1,2,4-Trichlorobenzen	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
95-63-6	1,2,4-Trimethylbenze	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
96-12-8	1,2-Dibromo-3-chloro	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
106-93-4	1,2-Dibromoethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
95-50-1	1,2-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
107-06-2	1,2-Dichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
78-87-5	1,2-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
108-67-8	1,3,5-Trimethylbenze	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
541-73-1	1,3-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
142-28-9	1,3-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
106-46-7	1,4-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
123-91-1	1,4-Dioxane	< 0.051	U	0.051	0.217	0.075	0.32	1.6	mg/Kg	0.46	02/17/17 03:03
594-20-7	2,2-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
95-49-8	2-Chlorotoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
106-43-4	4-Chlorotoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
99-87-6	4-Isopropyltoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
71-43-2	Benzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
108-86-1	Bromobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
74-97-5	Bromochloromethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-27-4	Bromodichloromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-25-2	Bromoform	< 0.00034	U	0.00034	0.003	0.0005	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
74-83-9	Bromomethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
56-23-5	Carbon tetrachloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
108-90-7	Chlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-00-3	Chloroethane	< 0.002	U	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
67-66-3	Chloroform	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 14:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
156-59-2	cis-1,2-Dichloroethyle	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
10061-01-5	cis-1,3-Dichloroprope	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
124-48-1	Dibromochloromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
74-95-3	Dibromomethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
100-41-4	Ethylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
98-82-8	Isopropylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
108-38-3&106-4	m- & p-Xylenes	< 0.00068	U	0.00068	0.007	0.001	0.01	0.1	mg/Kg	0.46	02/17/17 03:03
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-09-2	Methylene chloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
91-20-3	Naphthalene	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
104-51-8	n-Butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
103-65-1	n-Propylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
95-47-6	o-Xylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
135-98-8	sec-Butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
100-42-5	Styrene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
98-06-6	t-butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
127-18-4	Tetrachloroethylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
108-88-3	Toluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
156-60-5	trans-1,2-Dichloroethy	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
10061-02-6	trans-1,3-Dichloropro	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
79-01-6	Trichloroethylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-69-4	Trichlorofluoromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
75-01-4	Vinyl Chloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.46	02/17/17 03:03
1330-20-7	Xylenes	< 0.00068	U	0.00068	0.003	0.001	0.005	0.15	mg/Kg	0.46	02/17/17 03:03
17060-07-0	1,2-Dichloroethane-d4	107						70	130	%	0.46 02/17/17 03:03
1868-53-7	Dibromofluoromethan	106						70	130	%	0.46 02/17/17 03:03
2037-26-5	Toluene-d8(surr)	105						70	130	%	0.46 02/17/17 03:03
460-00-4	p-Bromofluorobenzen	116						70	130	%	0.46 02/17/17 03:03

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
95-50-1	1,2-Dichlorobenzene	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
541-73-1	1,3-Dichlorobenzene	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
106-46-7	1,4-Dichlorobenzene	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
95-95-4	2,4,5-Trichlorophenol	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
88-06-2	2,4,6-Trichlorophenol	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
120-83-2	2,4-Dichlorophenol	< 0.177	U	0.177	0.492	0.12	0.333	4	mg/Kg	1	02/21/17 00:07
105-67-9	2,4-Dimethylphenol	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
51-28-5	2,4-Dinitrophenol	< 0.177	U	0.177	0.492	0.12	0.333	4	mg/Kg	1	02/21/17 00:07
121-14-2	2,4-Dinitrotoluene	< 0.013	U	0.013	0.492	0.009	0.333	4	mg/Kg	1	02/21/17 00:07
606-20-2	2,6-Dinitrotoluene	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
91-58-7	2-Chloronaphthalene	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
95-57-8	2-Chlorophenol	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
91-57-6	2-Methylnaphthalene	< 0.443	U	0.443	0.492	0.30	0.333	4	mg/Kg	1	02/21/17 00:07
95-48-7	2-Methylphenol	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
88-75-5	2-Nitrophenol	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
108-39-4 & 106-	3- & 4-Methylphenols	< 0.192	U	0.192	0.985	0.13	0.667	8	mg/Kg	1	02/21/17 00:07
534-52-1	4,6-Dinitro-2-methylp	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
101-55-3	4-Bromophenyl pheny	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
59-50-7	4-Chloro-3-methylphe	< 0.207	U	0.207	0.492	0.14	0.333	4	mg/Kg	1	02/21/17 00:07
7005-72-3	4-Chlorophenyl pheny	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
100-02-7	4-Nitrophenol	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
83-32-9	Acenaphthene	< 0.222	U	0.222	0.492	0.15	0.333	4	mg/Kg	1	02/21/17 00:07
208-96-8	Acenaphthylene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
120-12-7	Anthracene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
56-55-3	Benzo(a)anthracene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
50-32-8	Benzo(a)pyrene	< 0.443	U	0.443	0.492	0.30	0.333	4	mg/Kg	1	02/21/17 00:07
205-99-2	Benzo(b)fluoranthene	< 0.443	U	0.443	0.492	0.30	0.333	4	mg/Kg	1	02/21/17 00:07
191-24-2	Benzo(g,h,i)perylene	< 0.591	U	0.591	0.492	0.40	0.333	4	mg/Kg	1	02/21/17 00:07
207-08-9	Benzo(k)fluoranthene	< 0.222	U	0.222	0.492	0.15	0.333	4	mg/Kg	1	02/21/17 00:07
111-91-1	Bis(2-chloroethoxy) m	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
111-44-4	Bis(2-chloroethyl) eth	< 0.443	U	0.443	0.492	0.30	0.333	4	mg/Kg	1	02/21/17 00:07
108-60-1	Bis(2-chloroisopropyl)	< 0.177	U	0.177	0.492	0.12	0.333	4	mg/Kg	1	02/21/17 00:07
117-81-7	Bis(2-ethylhexyl) phth	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
85-68-7	Butyl benzyl phthalate	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
218-01-9	Chrysene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
132-64-9	Dibenzofuran	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
84-66-2	Diethyl phthalate	< 0.207	U	0.207	0.492	0.14	0.333	4	mg/Kg	1	02/21/17 00:07
131-11-3	Dimethyl phthalate	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
84-74-2	Di-n-butyl phthalate	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
117-84-0	Di-n-octyl Phthalate	< 0.133	U,V1	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
206-44-0	Fluoranthene	< 0.251	U	0.251	0.492	0.17	0.333	4	mg/Kg	1	02/21/17 00:07
86-73-7	Fluorene	< 0.236	U	0.236	0.492	0.16	0.333	4	mg/Kg	1	02/21/17 00:07
118-74-1	Hexachlorobenzene	< 0.015	U	0.015	0.492	0.010	0.333	4	mg/Kg	1	02/21/17 00:07
87-68-3	Hexachlorobutadiene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
77-47-4	Hexachlorocyclopenta	< 0.177	U,V1	0.177	0.492	0.12	0.333	4	mg/Kg	1	02/21/17 00:07
67-72-1	Hexachloroethane	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
193-39-5	Indeno(1,2,3-cd)pyre	< 0.295	U	0.295	0.492	0.20	0.333	4	mg/Kg	1	02/21/17 00:07
78-59-1	Isophorone	< 0.192	U	0.192	0.492	0.13	0.333	4	mg/Kg	1	02/21/17 00:07
91-20-3	Naphthalene	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
98-95-3	Nitrobenzene	< 0.177	U	0.177	0.492	0.12	0.333	4	mg/Kg	1	02/21/17 00:07
62-75-9	N-Nitrosodimethylami	< 0.133	U	0.133	0.492	0.09	0.333	4	mg/Kg	1	02/21/17 00:07
621-64-7	N-nitroso-di-n-propyla	< 0.148	U	0.148	0.492	0.10	0.333	4	mg/Kg	1	02/21/17 00:07
87-86-5	Pentachlorophenol	< 0.207	U	0.207	0.492	0.14	0.333	4	mg/Kg	1	02/21/17 00:07
85-01-8	Phenanthrene	< 0.295	U	0.295	0.492	0.20	0.333	4	mg/Kg	1	02/21/17 00:07
108-95-2	Phenol	< 0.162	U	0.162	0.492	0.11	0.333	4	mg/Kg	1	02/21/17 00:07
129-00-0	Pyrene	< 0.266	U	0.266	0.492	0.18	0.333	4	mg/Kg	1	02/21/17 00:07
118-79-6	2,4,6-Tribromophenol	75.4						10 120	%	1	02/21/17 00:07
13127-88-3	Phenol-d6(surr)	69.7						15 120	%	1	02/21/17 00:07
132-60-8	2-Fluorobiphenyl(surr)	64.7						30 115	%	1	02/21/17 00:07
1718-51-0	p-Terphenyl-d14(surr)	59.7						30 140	%	1	02/21/17 00:07
367-12-4	2-Fluorophenol(surr)	69.2						20 115	%	1	02/21/17 00:07
4165-60-0	Nitrobenzene-d5(surr)	65.5						20 120	%	1	02/21/17 00:07

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-3

Date: 2/23/2017

A&B Job Sample ID: 17020774.06

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 14:45

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.95					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-3
A&B Job Sample ID: 17020774.06

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 14:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 32.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 35	U	35	36.9	23.7	25	1000	mg/Kg	1	02/17/17 15:21
TPH-1005-2	>C12-C28 ¹	< 30	U	30	36.9	20.3	25	1000	mg/Kg	1	02/17/17 15:21
TPH-1005-4	>C28-C35 ¹	< 26.1	U	26.1	36.9	17.7	25	1000	mg/Kg	1	02/17/17 15:21
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 15:21
111-85-3	1-Chlorooctane(surr)	103					60	143	%	1	02/17/17 15:21
3386-33-2	Chlorooctadecane(sur	102					60	150	%	1	02/17/17 15:21

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:56
7440-39-3	Barium	0.049		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 00:56
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 00:56
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:56
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 00:56
7782-49-2	Selenium	0.004	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 00:56
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 00:56

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:41

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 18:33
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 18:33
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 18:33
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 18:33
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 18:33
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 18:33
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 18:33
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 18:33
17060-07-0	1,2-Dichloroethane-d4	118					70	130	%	1	02/16/17 18:33
1868-53-7	Dibromofluoromethan	117					70	130	%	1	02/16/17 18:33
2037-26-5	Toluene-d8(surr)	101					70	130	%	1	02/16/17 18:33
460-00-4	p-Bromofluorobenzen	107					70	130	%	1	02/16/17 18:33

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 20:38
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 20:38
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 20:38
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 20:38
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 20:38
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 20:38
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 20:38
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 20:38

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 20:38	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 20:38	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 20:38	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 20:38	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 20:38	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 20:38	
118-79-6	2,4,6-Tribromophenol	62.1						19	122	%	1	02/21/17 20:38
13127-88-3	Phenol-d6(surr)	10.5						10	130	%	1	02/21/17 20:38
132-60-8	2-Fluorobiphenyl(surr)	54.4						30	115	%	1	02/21/17 20:38
1718-51-0	p-Terphenyl-d14(surr)	51.5						18	137	%	1	02/21/17 20:38
367-12-4	2-Fluorophenol(surr)	20.1						15	115	%	1	02/21/17 20:38
4165-60-0	Nitrobenzene-d5(surr)	53.6						23	120	%	1	02/21/17 20:38

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-4
A&B Job Sample ID: 17020774.07

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.594	U	0.594	1.35	0.66	1.5	60	mg/L	0.90	02/17/17 11:53
TPH-1005-2	>C12-C28 ¹	< 0.774	U	0.774	1.35	0.86	1.5	60	mg/L	0.90	02/17/17 11:53
TPH-1005-4	>C28-C35 ¹	< 0.675	U	0.675	1.35	0.75	1.5	60	mg/L	0.90	02/17/17 11:53
	Total C6-C35	<					----	----	mg/L	0.90	02/17/17 11:53
111-85-3	1-Chlorooctane(surr)	106					59	122	%	0.90	02/17/17 11:53
3386-33-2	Chlorooctadecane(sur	106					48	123	%	0.90	02/17/17 11:53

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	35.2					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021761
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021739

Sample Matrix: Soil
Date Collected: 02/14/2017 15:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/17/2017 10:30

Analyst Initial: BRR

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.154	U	0.154	0.772	0.1	0.5	1000	mg/Kg	1	02/17/17 19:56
7440-39-3	Barium	5.18		0.154	0.772	0.1	0.5	50	mg/Kg	1	02/17/17 19:56
7440-43-9	Cadmium	< 0.062	U	0.062	0.772	0.04	0.5	750	mg/Kg	1	02/17/17 19:56
7440-47-3	Chromium	0.449	J	0.154	0.772	0.1	0.5	1000	mg/Kg	1	02/17/17 19:56
7439-92-1	Lead	0.457	J	0.154	0.772	0.1	0.5	2500	mg/Kg	1	02/17/17 19:56
7782-49-2	Selenium	< 0.154	U	0.154	0.772	0.1	0.5	1000	mg/Kg	1	02/17/17 19:56
7440-22-4	Silver	0.051	J	0.031	0.772	0.02	0.5	100	mg/Kg	1	02/17/17 19:56

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.02		0.002	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:33

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
123-91-1	1,4-Dioxane	< 0.087	U	0.087	0.370	0.075	0.32	1.6	mg/Kg	0.75	02/17/17 03:37
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
99-87-6	4-Isopropyltoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
71-43-2	Benzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
108-86-1	Bromobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-25-2	Bromoform	< 0.00058	U	0.00058	0.006	0.0005	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
74-83-9	Bromomethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-00-3	Chloroethane	< 0.003	U	0.003	0.006	0.003	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
67-66-3	Chloroform	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
10061-01-5	cis-1,3-Dichloroprope	< 0.00046	U	0.00046	0.006	0.0004	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
74-95-3	Dibromomethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
108-38-3&106-4	m- & p-Xylenes	< 0.001	U	0.001	0.012	0.001	0.01	0.1	mg/Kg	0.75	02/17/17 03:37
78-93-3	MEK	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-09-2	Methylene chloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
91-20-3	Naphthalene	< 0.00046	U	0.00046	0.006	0.0004	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
95-47-6	o-Xylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
100-42-5	Styrene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
108-88-3	Toluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
10061-02-6	trans-1,3-Dichloropro	< 0.00046	U	0.00046	0.006	0.0004	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.75	02/17/17 03:37
1330-20-7	Xylenes	< 0.001	U	0.001	0.006	0.001	0.005	0.15	mg/Kg	0.75	02/17/17 03:37
17060-07-0	1,2-Dichloroethane-d4	112						70 130	%	0.75	02/17/17 03:37
1868-53-7	Dibromofluoromethan	107						70 130	%	0.75	02/17/17 03:37
2037-26-5	Toluene-d8(surr)	102						70 130	%	0.75	02/17/17 03:37
460-00-4	p-Bromofluorobenzen	108						70 130	%	0.75	02/17/17 03:37

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
95-50-1	1,2-Dichlorobenzene	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
541-73-1	1,3-Dichlorobenzene	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
106-46-7	1,4-Dichlorobenzene	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
95-95-4	2,4,5-Trichlorophenol	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
88-06-2	2,4,6-Trichlorophenol	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
120-83-2	2,4-Dichlorophenol	< 0.185	U	0.185	0.514	0.12	0.333	4	mg/Kg	1	02/21/17 00:50
105-67-9	2,4-Dimethylphenol	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
51-28-5	2,4-Dinitrophenol	< 0.185	U	0.185	0.514	0.12	0.333	4	mg/Kg	1	02/21/17 00:50
121-14-2	2,4-Dinitrotoluene	< 0.014	U	0.014	0.514	0.009	0.333	4	mg/Kg	1	02/21/17 00:50
606-20-2	2,6-Dinitrotoluene	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
91-58-7	2-Chloronaphthalene	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
95-57-8	2-Chlorophenol	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
91-57-6	2-Methylnaphthalene	< 0.463	U	0.463	0.514	0.30	0.333	4	mg/Kg	1	02/21/17 00:50
95-48-7	2-Methylphenol	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
88-75-5	2-Nitrophenol	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
108-39-4 & 106-	3- & 4-Methylphenols	< 0.201	U	0.201	1.03	0.13	0.667	8	mg/Kg	1	02/21/17 00:50
534-52-1	4,6-Dinitro-2-methylp	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
101-55-3	4-Bromophenyl pheny	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
59-50-7	4-Chloro-3-methylphe	< 0.216	U	0.216	0.514	0.14	0.333	4	mg/Kg	1	02/21/17 00:50
7005-72-3	4-Chlorophenyl pheny	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
100-02-7	4-Nitrophenol	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
83-32-9	Acenaphthene	< 0.231	U	0.231	0.514	0.15	0.333	4	mg/Kg	1	02/21/17 00:50
208-96-8	Acenaphthylene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
120-12-7	Anthracene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
56-55-3	Benzo(a)anthracene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
50-32-8	Benzo(a)pyrene	< 0.463	U	0.463	0.514	0.30	0.333	4	mg/Kg	1	02/21/17 00:50
205-99-2	Benzo(b)fluoranthene	< 0.463	U	0.463	0.514	0.30	0.333	4	mg/Kg	1	02/21/17 00:50
191-24-2	Benzo(g,h,i)perylene	< 0.617	U	0.617	0.514	0.40	0.333	4	mg/Kg	1	02/21/17 00:50
207-08-9	Benzo(k)fluoranthene	< 0.231	U	0.231	0.514	0.15	0.333	4	mg/Kg	1	02/21/17 00:50
111-91-1	Bis(2-chloroethoxy) m	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
111-44-4	Bis(2-chloroethyl) eth	< 0.463	U	0.463	0.514	0.30	0.333	4	mg/Kg	1	02/21/17 00:50
108-60-1	Bis(2-chloroisopropyl)	< 0.185	U	0.185	0.514	0.12	0.333	4	mg/Kg	1	02/21/17 00:50
117-81-7	Bis(2-ethylhexyl) phth	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
85-68-7	Butyl benzyl phthalate	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
218-01-9	Chrysene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
132-64-9	Dibenzofuran	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
84-66-2	Diethyl phthalate	< 0.216	U	0.216	0.514	0.14	0.333	4	mg/Kg	1	02/21/17 00:50
131-11-3	Dimethyl phthalate	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
84-74-2	Di-n-butyl phthalate	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
117-84-0	Di-n-octyl Phthalate	< 0.139	U,V1	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
206-44-0	Fluoranthene	< 0.262	U	0.262	0.514	0.17	0.333	4	mg/Kg	1	02/21/17 00:50
86-73-7	Fluorene	< 0.247	U	0.247	0.514	0.16	0.333	4	mg/Kg	1	02/21/17 00:50
118-74-1	Hexachlorobenzene	< 0.015	U	0.015	0.514	0.010	0.333	4	mg/Kg	1	02/21/17 00:50
87-68-3	Hexachlorobutadiene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
77-47-4	Hexachlorocyclopenta	< 0.185	U,V1	0.185	0.514	0.12	0.333	4	mg/Kg	1	02/21/17 00:50
67-72-1	Hexachloroethane	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
193-39-5	Indeno(1,2,3-cd)pyre	< 0.309	U	0.309	0.514	0.20	0.333	4	mg/Kg	1	02/21/17 00:50
78-59-1	Isophorone	< 0.201	U	0.201	0.514	0.13	0.333	4	mg/Kg	1	02/21/17 00:50
91-20-3	Naphthalene	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
98-95-3	Nitrobenzene	< 0.185	U	0.185	0.514	0.12	0.333	4	mg/Kg	1	02/21/17 00:50
62-75-9	N-Nitrosodimethylami	< 0.139	U	0.139	0.514	0.09	0.333	4	mg/Kg	1	02/21/17 00:50
621-64-7	N-nitroso-di-n-propyla	< 0.154	U	0.154	0.514	0.10	0.333	4	mg/Kg	1	02/21/17 00:50
87-86-5	Pentachlorophenol	< 0.216	U	0.216	0.514	0.14	0.333	4	mg/Kg	1	02/21/17 00:50
85-01-8	Phenanthrene	< 0.309	U	0.309	0.514	0.20	0.333	4	mg/Kg	1	02/21/17 00:50
108-95-2	Phenol	< 0.170	U	0.170	0.514	0.11	0.333	4	mg/Kg	1	02/21/17 00:50
129-00-0	Pyrene	< 0.278	U	0.278	0.514	0.18	0.333	4	mg/Kg	1	02/21/17 00:50
118-79-6	2,4,6-Tribromophenol	110						10 120	%	1	02/21/17 00:50
13127-88-3	Phenol-d6(surr)	69.2						15 120	%	1	02/21/17 00:50
132-60-8	2-Fluorobiphenyl(surr)	72						30 115	%	1	02/21/17 00:50
1718-51-0	p-Terphenyl-d14(surr)	73.6						30 140	%	1	02/21/17 00:50
367-12-4	2-Fluorophenol(surr)	65.8						20 115	%	1	02/21/17 00:50
4165-60-0	Nitrobenzene-d5(surr)	70.1						20 120	%	1	02/21/17 00:50

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 15:00

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.81					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-4
A&B Job Sample ID: 17020774.08

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 15:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 35.2

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 36.6	U	36.6	38.6	23.7	25	1000	mg/Kg	1	02/17/17 21:30
TPH-1005-2	>C12-C28 ¹	< 31.3	U	31.3	38.6	20.3	25	1000	mg/Kg	1	02/17/17 21:30
TPH-1005-4	>C28-C35 ¹	< 27.3	U	27.3	38.6	17.7	25	1000	mg/Kg	1	02/17/17 21:30
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 21:30
111-85-3	1-Chlorooctane(surr)	86.5					60	143	%	1	02/17/17 21:30
3386-33-2	Chlorooctadecane(sur	85.9					60	150	%	1	02/17/17 21:30

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:09
7440-39-3	Barium	0.061		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 01:09
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 01:09
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:09
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 01:09
7782-49-2	Selenium	0.008	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:09
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 01:09

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:43

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 19:07
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 19:07
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 19:07
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

Analyst Initial: JKD

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 19:07
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 19:07
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 19:07
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:07
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 19:07
17060-07-0	1,2-Dichloroethane-d4	122						70 130	%	1	02/16/17 19:07
1868-53-7	Dibromofluoromethan	123						70 130	%	1	02/16/17 19:07
2037-26-5	Toluene-d8(surr)	106						70 130	%	1	02/16/17 19:07
460-00-4	p-Bromofluorobenzen	106						70 130	%	1	02/16/17 19:07

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 21:22
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 21:22
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 21:22
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 21:22
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 21:22
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 21:22
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 21:22
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 21:22

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 21:22
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 21:22
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 21:22
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 21:22
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 21:22
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 21:22
118-79-6	2,4,6-Tribromophenol	50.7					19	122	%	1	02/21/17 21:22
13127-88-3	Phenol-d6(surr)	7.39	S2				10	130	%	1	02/21/17 21:22
132-60-8	2-Fluorobiphenyl(surr)	45.6					30	115	%	1	02/21/17 21:22
1718-51-0	p-Terphenyl-d14(surr)	47.8					18	137	%	1	02/21/17 21:22
367-12-4	2-Fluorophenol(surr)	14	S2				15	115	%	1	02/21/17 21:22
4165-60-0	Nitrobenzene-d5(surr)	48.6					23	120	%	1	02/21/17 21:22

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-5
A&B Job Sample ID: 17020774.09

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.614	U	0.614	1.40	0.66	1.5	60	mg/L	0.93	02/17/17 12:19
TPH-1005-2	>C12-C28 ¹	< 0.800	U	0.800	1.40	0.86	1.5	60	mg/L	0.93	02/17/17 12:19
TPH-1005-4	>C28-C35 ¹	< 0.698	U	0.698	1.40	0.75	1.5	60	mg/L	0.93	02/17/17 12:19
	Total C6-C35	<					----	----	mg/L	0.93	02/17/17 12:19
111-85-3	1-Chlorooctane(surr)	84.9					59	122	%	0.93	02/17/17 12:19
3386-33-2	Chlorooctadecane(sur	83.4					48	123	%	0.93	02/17/17 12:19

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	27.1					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SP5D-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744

Sample Matrix: Soil
Date Collected: 02/14/2017 15:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

Analyst Initial: BRR

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.70		0.137	0.686	0.1	0.5	1000	mg/Kg	1	02/17/17 13:22
7440-39-3	Barium	131		2.74	13.7	0.1	0.5	50	mg/Kg	20	02/17/17 13:25
7440-43-9	Cadmium	0.081	J	0.055	0.686	0.04	0.5	750	mg/Kg	1	02/17/17 13:22
7440-47-3	Chromium	5.47		0.137	0.686	0.1	0.5	1000	mg/Kg	1	02/17/17 13:22
7439-92-1	Lead	2.35		0.137	0.686	0.1	0.5	2500	mg/Kg	1	02/17/17 13:22
7782-49-2	Selenium	< 0.137	U	0.137	0.686	0.1	0.5	1000	mg/Kg	1	02/17/17 13:22
7440-22-4	Silver	0.244	J	0.027	0.686	0.02	0.5	100	mg/Kg	1	02/17/17 13:22

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-5

Date: 2/23/2017

A&B Job Sample ID: 17020774.10

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **Total Metals - Mercury**

Sample Matrix: Soil

Analytical Method: SW-846 7470A

Date Collected: 02/14/2017 15:20

QC Batch ID: Qb17021649

Date Received: 02/15/2017 08:06

Prep Method: SW-846 7470A

Date Prepared: 02/16/2017 11:00

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.016		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:35

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
71-55-6	1,1,1-Trichloroethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
79-34-5	1,1,2,2-Tetrachloroet	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
79-00-5	1,1,2-Trichloroethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-34-3	1,1-Dichloroethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
563-58-6	1,1-Dichloropropene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
96-18-4	1,2,3-Trichloropropan	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
120-82-1	1,2,4-Trichlorobenzen	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
95-63-6	1,2,4-Trimethylbenze	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
96-12-8	1,2-Dibromo-3-chloro	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
106-93-4	1,2-Dibromoethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
95-50-1	1,2-Dichlorobenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
107-06-2	1,2-Dichloroethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
78-87-5	1,2-Dichloropropane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
108-67-8	1,3,5-Trimethylbenze	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
541-73-1	1,3-Dichlorobenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
142-28-9	1,3-Dichloropropane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
106-46-7	1,4-Dichlorobenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
123-91-1	1,4-Dioxane	< 0.074	U	0.074	0.316	0.075	0.32	1.6	mg/Kg	0.72	02/17/17 04:11
594-20-7	2,2-Dichloropropane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
95-49-8	2-Chlorotoluene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
106-43-4	4-Chlorotoluene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
99-87-6	4-Isopropyltoluene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
71-43-2	Benzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
108-86-1	Bromobenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
74-97-5	Bromochloromethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-27-4	Bromodichloromethan	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-25-2	Bromoform	< 0.00049	U	0.00049	0.005	0.0005	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
74-83-9	Bromomethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
56-23-5	Carbon tetrachloride	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
108-90-7	Chlorobenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-00-3	Chloroethane	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
67-66-3	Chloroform	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:20
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
156-59-2	cis-1,2-Dichloroethyle	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
10061-01-5	cis-1,3-Dichloroprope	< 0.0004	U	0.0004	0.005	0.0004	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
124-48-1	Dibromochloromethan	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
74-95-3	Dibromomethane	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
100-41-4	Ethylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
98-82-8	Isopropylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
108-38-3&106-4	m- & p-Xylenes	< 0.00099	U	0.00099	0.01	0.001	0.01	0.1	mg/Kg	0.72	02/17/17 04:11
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-09-2	Methylene chloride	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
91-20-3	Naphthalene	< 0.0004	U	0.0004	0.005	0.0004	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
104-51-8	n-Butylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
103-65-1	n-Propylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
95-47-6	o-Xylene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
135-98-8	sec-Butylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
100-42-5	Styrene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
98-06-6	t-butylbenzene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
127-18-4	Tetrachloroethylene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
108-88-3	Toluene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
156-60-5	trans-1,2-Dichloroethy	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
10061-02-6	trans-1,3-Dichloropro	< 0.0004	U	0.0004	0.005	0.0004	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
79-01-6	Trichloroethylene	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-69-4	Trichlorofluoromethan	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
75-01-4	Vinyl Chloride	< 0.00099	U	0.00099	0.005	0.001	0.005	0.05	mg/Kg	0.72	02/17/17 04:11
1330-20-7	Xylenes	< 0.00099	U	0.00099	0.005	0.001	0.005	0.15	mg/Kg	0.72	02/17/17 04:11
17060-07-0	1,2-Dichloroethane-d4	113					70	130	%	0.72	02/17/17 04:11
1868-53-7	Dibromofluoromethan	107					70	130	%	0.72	02/17/17 04:11
2037-26-5	Toluene-d8(surr)	105					70	130	%	0.72	02/17/17 04:11
460-00-4	p-Bromofluorobenzen	115					70	130	%	0.72	02/17/17 04:11

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SP5D-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
95-50-1	1,2-Dichlorobenzene	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
541-73-1	1,3-Dichlorobenzene	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
106-46-7	1,4-Dichlorobenzene	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
95-95-4	2,4,5-Trichlorophenol	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
88-06-2	2,4,6-Trichlorophenol	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
120-83-2	2,4-Dichlorophenol	< 0.165	U	0.165	0.457	0.12	0.333	4	mg/Kg	1	02/21/17 01:33
105-67-9	2,4-Dimethylphenol	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
51-28-5	2,4-Dinitrophenol	< 0.165	U	0.165	0.457	0.12	0.333	4	mg/Kg	1	02/21/17 01:33
121-14-2	2,4-Dinitrotoluene	< 0.012	U	0.012	0.457	0.009	0.333	4	mg/Kg	1	02/21/17 01:33
606-20-2	2,6-Dinitrotoluene	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
91-58-7	2-Chloronaphthalene	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
95-57-8	2-Chlorophenol	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
91-57-6	2-Methylnaphthalene	< 0.412	U	0.412	0.457	0.30	0.333	4	mg/Kg	1	02/21/17 01:33
95-48-7	2-Methylphenol	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
88-75-5	2-Nitrophenol	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
108-39-4 & 106-	3- & 4-Methylphenols	< 0.178	U	0.178	0.915	0.13	0.667	8	mg/Kg	1	02/21/17 01:33
534-52-1	4,6-Dinitro-2-methylp	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
101-55-3	4-Bromophenyl pheny	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
59-50-7	4-Chloro-3-methylphe	< 0.192	U	0.192	0.457	0.14	0.333	4	mg/Kg	1	02/21/17 01:33
7005-72-3	4-Chlorophenyl pheny	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
100-02-7	4-Nitrophenol	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
83-32-9	Acenaphthene	< 0.206	U	0.206	0.457	0.15	0.333	4	mg/Kg	1	02/21/17 01:33
208-96-8	Acenaphthylene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
120-12-7	Anthracene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
56-55-3	Benzo(a)anthracene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
50-32-8	Benzo(a)pyrene	< 0.412	U	0.412	0.457	0.30	0.333	4	mg/Kg	1	02/21/17 01:33
205-99-2	Benzo(b)fluoranthene	< 0.412	U	0.412	0.457	0.30	0.333	4	mg/Kg	1	02/21/17 01:33
191-24-2	Benzo(g,h,i)perylene	< 0.549	U	0.549	0.457	0.40	0.333	4	mg/Kg	1	02/21/17 01:33
207-08-9	Benzo(k)fluoranthene	< 0.206	U	0.206	0.457	0.15	0.333	4	mg/Kg	1	02/21/17 01:33
111-91-1	Bis(2-chloroethoxy) m	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
111-44-4	Bis(2-chloroethyl) eth	< 0.412	U	0.412	0.457	0.30	0.333	4	mg/Kg	1	02/21/17 01:33
108-60-1	Bis(2-chloroisopropyl)	< 0.165	U	0.165	0.457	0.12	0.333	4	mg/Kg	1	02/21/17 01:33
117-81-7	Bis(2-ethylhexyl) phth	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
85-68-7	Butyl benzyl phthalate	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
218-01-9	Chrysene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
132-64-9	Dibenzofuran	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
84-66-2	Diethyl phthalate	< 0.192	U	0.192	0.457	0.14	0.333	4	mg/Kg	1	02/21/17 01:33
131-11-3	Dimethyl phthalate	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
84-74-2	Di-n-butyl phthalate	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
117-84-0	Di-n-octyl Phthalate	< 0.123	U,V1	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
206-44-0	Fluoranthene	< 0.233	U	0.233	0.457	0.17	0.333	4	mg/Kg	1	02/21/17 01:33
86-73-7	Fluorene	< 0.219	U	0.219	0.457	0.16	0.333	4	mg/Kg	1	02/21/17 01:33
118-74-1	Hexachlorobenzene	< 0.014	U	0.014	0.457	0.010	0.333	4	mg/Kg	1	02/21/17 01:33
87-68-3	Hexachlorobutadiene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
77-47-4	Hexachlorocyclopenta	< 0.165	U,V1	0.165	0.457	0.12	0.333	4	mg/Kg	1	02/21/17 01:33
67-72-1	Hexachloroethane	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
193-39-5	Indeno(1,2,3-cd)pyre	< 0.274	U	0.274	0.457	0.20	0.333	4	mg/Kg	1	02/21/17 01:33
78-59-1	Isophorone	< 0.178	U	0.178	0.457	0.13	0.333	4	mg/Kg	1	02/21/17 01:33
91-20-3	Naphthalene	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
98-95-3	Nitrobenzene	< 0.165	U	0.165	0.457	0.12	0.333	4	mg/Kg	1	02/21/17 01:33
62-75-9	N-Nitrosodimethylami	< 0.123	U	0.123	0.457	0.09	0.333	4	mg/Kg	1	02/21/17 01:33
621-64-7	N-nitroso-di-n-propyla	< 0.137	U	0.137	0.457	0.10	0.333	4	mg/Kg	1	02/21/17 01:33
87-86-5	Pentachlorophenol	< 0.192	U	0.192	0.457	0.14	0.333	4	mg/Kg	1	02/21/17 01:33
85-01-8	Phenanthrene	< 0.274	U	0.274	0.457	0.20	0.333	4	mg/Kg	1	02/21/17 01:33
108-95-2	Phenol	< 0.151	U	0.151	0.457	0.11	0.333	4	mg/Kg	1	02/21/17 01:33
129-00-0	Pyrene	< 0.247	U	0.247	0.457	0.18	0.333	4	mg/Kg	1	02/21/17 01:33
118-79-6	2,4,6-Tribromophenol	69.2						10 120	%	1	02/21/17 01:33
13127-88-3	Phenol-d6(surr)	58						15 120	%	1	02/21/17 01:33
132-60-8	2-Fluorobiphenyl(surr)	57.1						30 115	%	1	02/21/17 01:33
1718-51-0	p-Terphenyl-d14(surr)	52.1						30 140	%	1	02/21/17 01:33
367-12-4	2-Fluorophenol(surr)	58.9						20 115	%	1	02/21/17 01:33
4165-60-0	Nitrobenzene-d5(surr)	58.7						20 120	%	1	02/21/17 01:33

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 15:20

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.59					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSD-5
A&B Job Sample ID: 17020774.10

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 15:20

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 27.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 32.5	U	32.5	34.3	23.7	25	1000	mg/Kg	1	02/17/17 18:38
TPH-1005-2	>C12-C28 ¹	< 27.8	U	27.8	34.3	20.3	25	1000	mg/Kg	1	02/17/17 18:38
TPH-1005-4	>C28-C35 ¹	< 24.3	U	24.3	34.3	17.7	25	1000	mg/Kg	1	02/17/17 18:38
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 18:38
111-85-3	1-Chlorooctane(surr)	102					60	143	%	1	02/17/17 18:38
3386-33-2	Chlorooctadecane(sur	101					60	150	%	1	02/17/17 18:38

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:12
7440-39-3	Barium	0.265		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 01:12
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 01:12
7440-47-3	Chromium	0.004	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:12
7439-92-1	Lead	0.033		0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 01:12
7782-49-2	Selenium	0.012	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:12
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 01:12

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:46

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 19:41
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 19:41
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 19:41
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

Analyst Initial: JKD

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 19:41
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 19:41
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 19:41
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 19:41
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 19:41
17060-07-0	1,2-Dichloroethane-d4	118					70	130	%	1	02/16/17 19:41
1868-53-7	Dibromofluoromethan	120					70	130	%	1	02/16/17 19:41
2037-26-5	Toluene-d8(surr)	104					70	130	%	1	02/16/17 19:41
460-00-4	p-Bromofluorobenzen	106					70	130	%	1	02/16/17 19:41

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:06
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:06
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:06
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:06
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:06
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 22:06
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 22:06
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:06

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:06	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:06	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:06	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:06	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:06	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 22:06	
118-79-6	2,4,6-Tribromophenol	55.5						19	122	%	1	02/21/17 22:06
13127-88-3	Phenol-d6(surr)	11.8						10	130	%	1	02/21/17 22:06
132-60-8	2-Fluorobiphenyl(surr)	58.5						30	115	%	1	02/21/17 22:06
1718-51-0	p-Terphenyl-d14(surr)	58.5						18	137	%	1	02/21/17 22:06
367-12-4	2-Fluorophenol(surr)	20.5						15	115	%	1	02/21/17 22:06
4165-60-0	Nitrobenzene-d5(surr)	62.7						23	120	%	1	02/21/17 22:06

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSW-6
A&B Job Sample ID: 17020774.11

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.620	U	0.620	1.41	0.66	1.5	60	mg/L	0.94	02/17/17 12:46
TPH-1005-2	>C12-C28 ¹	< 0.808	U	0.808	1.41	0.86	1.5	60	mg/L	0.94	02/17/17 12:46
TPH-1005-4	>C28-C35 ¹	< 0.705	U	0.705	1.41	0.75	1.5	60	mg/L	0.94	02/17/17 12:46
	Total C6-C35	<					----	----	mg/L	0.94	02/17/17 12:46
111-85-3	1-Chlorooctane(surr)	109					59	122	%	0.94	02/17/17 12:46
3386-33-2	Chlorooctadecane(sur	113					48	123	%	0.94	02/17/17 12:46

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-6

Date: 2/23/2017

A&B Job Sample ID: 17020774.12

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	44.8					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744
Analyst Initial: BRR

Sample Matrix: Soil
Date Collected: 02/14/2017 15:40
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	4.48		0.181	0.906	0.1	0.5	1000	mg/Kg	1	02/17/17 18:59
7440-39-3	Barium	275		3.62	18.1	0.1	0.5	50	mg/Kg	20	02/17/17 19:02
7440-43-9	Cadmium	0.562	J	0.072	0.906	0.04	0.5	750	mg/Kg	1	02/17/17 18:59
7440-47-3	Chromium	12.5		0.181	0.906	0.1	0.5	1000	mg/Kg	1	02/17/17 18:59
7439-92-1	Lead	39.3		0.181	0.906	0.1	0.5	2500	mg/Kg	1	02/17/17 18:59
7782-49-2	Selenium	< 0.181	U	0.181	0.906	0.1	0.5	1000	mg/Kg	1	02/17/17 18:59
7440-22-4	Silver	0.937		0.036	0.906	0.02	0.5	100	mg/Kg	1	02/17/17 18:59

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.082		0.002	0.007	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:38

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:40
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
123-91-1	1,4-Dioxane	< 0.092	U	0.092	0.394	0.075	0.32	1.6	mg/Kg	0.68	02/17/17 04:45
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
99-87-6	4-Isopropyltoluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
71-43-2	Benzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
108-86-1	Bromobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-25-2	Bromoform	< 0.00062	U	0.00062	0.006	0.0005	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
74-83-9	Bromomethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-00-3	Chloroethane	< 0.004	U	0.004	0.006	0.003	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
67-66-3	Chloroform	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 15:40
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
10061-01-5	cis-1,3-Dichloroprope	< 0.00049	U	0.00049	0.006	0.0004	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
74-95-3	Dibromomethane	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
108-38-3&106-4	m- & p-Xylenes	< 0.001	U	0.001	0.012	0.001	0.01	0.1	mg/Kg	0.68	02/17/17 04:45
78-93-3	MEK	< 0.002	U	0.002	0.006	0.002	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-09-2	Methylene chloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
91-20-3	Naphthalene	< 0.00049	U	0.00049	0.006	0.0004	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
95-47-6	o-Xylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
100-42-5	Styrene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
108-88-3	Toluene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
10061-02-6	trans-1,3-Dichloropro	< 0.00049	U	0.00049	0.006	0.0004	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.006	0.001	0.005	0.05	mg/Kg	0.68	02/17/17 04:45
1330-20-7	Xylenes	< 0.001	U	0.001	0.006	0.001	0.005	0.15	mg/Kg	0.68	02/17/17 04:45
17060-07-0	1,2-Dichloroethane-d4	109					70	130	%	0.68	02/17/17 04:45
1868-53-7	Dibromofluoromethan	105					70	130	%	0.68	02/17/17 04:45
2037-26-5	Toluene-d8(surr)	108					70	130	%	0.68	02/17/17 04:45
460-00-4	p-Bromofluorobenzen	123					70	130	%	0.68	02/17/17 04:45

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SP5D-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
95-50-1	1,2-Dichlorobenzene	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
541-73-1	1,3-Dichlorobenzene	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
106-46-7	1,4-Dichlorobenzene	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
95-95-4	2,4,5-Trichlorophenol	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
88-06-2	2,4,6-Trichlorophenol	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
120-83-2	2,4-Dichlorophenol	< 0.217	U	0.217	0.603	0.12	0.333	4	mg/Kg	1	02/21/17 02:16
105-67-9	2,4-Dimethylphenol	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
51-28-5	2,4-Dinitrophenol	< 0.217	U	0.217	0.603	0.12	0.333	4	mg/Kg	1	02/21/17 02:16
121-14-2	2,4-Dinitrotoluene	< 0.016	U	0.016	0.603	0.009	0.333	4	mg/Kg	1	02/21/17 02:16
606-20-2	2,6-Dinitrotoluene	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
91-58-7	2-Chloronaphthalene	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
95-57-8	2-Chlorophenol	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
91-57-6	2-Methylnaphthalene	< 0.543	U	0.543	0.603	0.30	0.333	4	mg/Kg	1	02/21/17 02:16
95-48-7	2-Methylphenol	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
88-75-5	2-Nitrophenol	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
108-39-4 & 106-	3- & 4-Methylphenols	< 0.236	U	0.236	1.21	0.13	0.667	8	mg/Kg	1	02/21/17 02:16
534-52-1	4,6-Dinitro-2-methylp	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
101-55-3	4-Bromophenyl pheny	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
59-50-7	4-Chloro-3-methylphe	< 0.254	U	0.254	0.603	0.14	0.333	4	mg/Kg	1	02/21/17 02:16
7005-72-3	4-Chlorophenyl pheny	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
100-02-7	4-Nitrophenol	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
83-32-9	Acenaphthene	< 0.272	U	0.272	0.603	0.15	0.333	4	mg/Kg	1	02/21/17 02:16
208-96-8	Acenaphthylene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
120-12-7	Anthracene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
56-55-3	Benzo(a)anthracene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
50-32-8	Benzo(a)pyrene	< 0.543	U	0.543	0.603	0.30	0.333	4	mg/Kg	1	02/21/17 02:16
205-99-2	Benzo(b)fluoranthene	< 0.543	U	0.543	0.603	0.30	0.333	4	mg/Kg	1	02/21/17 02:16
191-24-2	Benzo(g,h,i)perylene	< 0.725	U	0.725	0.603	0.40	0.333	4	mg/Kg	1	02/21/17 02:16
207-08-9	Benzo(k)fluoranthene	< 0.272	U	0.272	0.603	0.15	0.333	4	mg/Kg	1	02/21/17 02:16
111-91-1	Bis(2-chloroethoxy) m	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
111-44-4	Bis(2-chloroethyl) eth	< 0.543	U	0.543	0.603	0.30	0.333	4	mg/Kg	1	02/21/17 02:16
108-60-1	Bis(2-chloroisopropyl)	< 0.217	U	0.217	0.603	0.12	0.333	4	mg/Kg	1	02/21/17 02:16
117-81-7	Bis(2-ethylhexyl) phth	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
85-68-7	Butyl benzyl phthalate	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
218-01-9	Chrysene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SPSP-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 15:40

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
132-64-9	Dibenzofuran	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
84-66-2	Diethyl phthalate	< 0.254	U	0.254	0.603	0.14	0.333	4	mg/Kg	1	02/21/17 02:16
131-11-3	Dimethyl phthalate	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
84-74-2	Di-n-butyl phthalate	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
117-84-0	Di-n-octyl Phthalate	< 0.163	U,V1	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
206-44-0	Fluoranthene	< 0.308	U	0.308	0.603	0.17	0.333	4	mg/Kg	1	02/21/17 02:16
86-73-7	Fluorene	< 0.290	U	0.290	0.603	0.16	0.333	4	mg/Kg	1	02/21/17 02:16
118-74-1	Hexachlorobenzene	< 0.018	U	0.018	0.603	0.010	0.333	4	mg/Kg	1	02/21/17 02:16
87-68-3	Hexachlorobutadiene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
77-47-4	Hexachlorocyclopenta	< 0.217	U,V1	0.217	0.603	0.12	0.333	4	mg/Kg	1	02/21/17 02:16
67-72-1	Hexachloroethane	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
193-39-5	Indeno(1,2,3-cd)pyre	< 0.362	U	0.362	0.603	0.20	0.333	4	mg/Kg	1	02/21/17 02:16
78-59-1	Isophorone	< 0.236	U	0.236	0.603	0.13	0.333	4	mg/Kg	1	02/21/17 02:16
91-20-3	Naphthalene	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
98-95-3	Nitrobenzene	< 0.217	U	0.217	0.603	0.12	0.333	4	mg/Kg	1	02/21/17 02:16
62-75-9	N-Nitrosodimethylami	< 0.163	U	0.163	0.603	0.09	0.333	4	mg/Kg	1	02/21/17 02:16
621-64-7	N-nitroso-di-n-propyla	< 0.181	U	0.181	0.603	0.10	0.333	4	mg/Kg	1	02/21/17 02:16
87-86-5	Pentachlorophenol	< 0.254	U	0.254	0.603	0.14	0.333	4	mg/Kg	1	02/21/17 02:16
85-01-8	Phenanthrene	< 0.362	U	0.362	0.603	0.20	0.333	4	mg/Kg	1	02/21/17 02:16
108-95-2	Phenol	< 0.199	U	0.199	0.603	0.11	0.333	4	mg/Kg	1	02/21/17 02:16
129-00-0	Pyrene	< 0.326	U	0.326	0.603	0.18	0.333	4	mg/Kg	1	02/21/17 02:16
118-79-6	2,4,6-Tribromophenol	75						10 120	%	1	02/21/17 02:16
13127-88-3	Phenol-d6(surr)	62.6						15 120	%	1	02/21/17 02:16
132-60-8	2-Fluorobiphenyl(surr)	61.3						30 115	%	1	02/21/17 02:16
1718-51-0	p-Terphenyl-d14(surr)	57.6						30 140	%	1	02/21/17 02:16
367-12-4	2-Fluorophenol(surr)	62.6						20 115	%	1	02/21/17 02:16
4165-60-0	Nitrobenzene-d5(surr)	68						20 120	%	1	02/21/17 02:16

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSP-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 15:40

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.84					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SPSD-6
A&B Job Sample ID: 17020774.12

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005
QC Batch ID: Qb17022207
Prep Method: TX 1005
Prepared By: AVBembde
Prep Batch ID: PB17022208

Sample Matrix: Soil
Date Collected: 02/14/2017 15:40
Date Received: 02/15/2017 08:06
Date Prepared: 02/15/2017 17:00

Analyst Initial: AVB

% Moisture: 44.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 42.9	U	42.9	45.3	23.7	25	1000	mg/Kg	1	02/17/17 19:06
TPH-1005-2	>C12-C28 ¹	< 36.8	U	36.8	45.3	20.3	25	1000	mg/Kg	1	02/17/17 19:06
TPH-1005-4	>C28-C35 ¹	< 32.1	U	32.1	45.3	17.7	25	1000	mg/Kg	1	02/17/17 19:06
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 19:06
111-85-3	1-Chlorooctane(surr)	122					60	143	%	1	02/17/17 19:06
3386-33-2	Chlorooctadecane(sur	122					60	150	%	1	02/17/17 19:06

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:16
7440-39-3	Barium	0.092		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 01:16
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 01:16
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:16
7439-92-1	Lead	0.005	J	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 01:16
7782-49-2	Selenium	0.01	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:16
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 01:16

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:49

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 20:15
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 20:15
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 20:15
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 20:15
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 20:15
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 20:15
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:15
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 20:15
17060-07-0	1,2-Dichloroethane-d4	118					70	130	%	1	02/16/17 20:15
1868-53-7	Dibromofluoromethan	117					70	130	%	1	02/16/17 20:15
2037-26-5	Toluene-d8(surr)	104					70	130	%	1	02/16/17 20:15
460-00-4	p-Bromofluorobenzen	108					70	130	%	1	02/16/17 20:15

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:51
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:51
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:51
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:51
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 22:51
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 22:51
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 22:51
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:51

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 22:51	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 22:51	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 22:51	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 22:51	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 22:51	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 22:51	
118-79-6	2,4,6-Tribromophenol	68.4						19	122	%	1	02/21/17 22:51
13127-88-3	Phenol-d6(surr)	10.4						10	130	%	1	02/21/17 22:51
132-60-8	2-Fluorobiphenyl(surr)	56.4						30	115	%	1	02/21/17 22:51
1718-51-0	p-Terphenyl-d14(surr)	64						18	137	%	1	02/21/17 22:51
367-12-4	2-Fluorophenol(surr)	18.3						15	115	%	1	02/21/17 22:51
4165-60-0	Nitrobenzene-d5(surr)	59.8						23	120	%	1	02/21/17 22:51

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-7
A&B Job Sample ID: 17020774.13

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.660	U	0.660	1.50	0.66	1.5	60	mg/L	1	02/17/17 13:13
TPH-1005-2	>C12-C28 ¹	< 0.860	U	0.860	1.50	0.86	1.5	60	mg/L	1	02/17/17 13:13
TPH-1005-4	>C28-C35 ¹	< 0.750	U	0.750	1.50	0.75	1.5	60	mg/L	1	02/17/17 13:13
	Total C6-C35	<					----	----	mg/L	1	02/17/17 13:13
111-85-3	1-Chlorooctane(surr)	101					59	122	%	0.91	02/17/17 13:13
3386-33-2	Chlorooctadecane(sur	107					48	123	%	0.91	02/17/17 13:13

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	29.8					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744
Analyst Initial: BRR

Sample Matrix: Soil
Date Collected: 02/14/2017 16:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.04		0.142	0.712	0.1	0.5	1000	mg/Kg	1	02/17/17 19:06
7440-39-3	Barium	52.9		2.85	14.2	0.1	0.5	50	mg/Kg	20	02/17/17 19:09
7440-43-9	Cadmium	0.182	J	0.057	0.712	0.04	0.5	750	mg/Kg	1	02/17/17 19:06
7440-47-3	Chromium	6.60		0.142	0.712	0.1	0.5	1000	mg/Kg	1	02/17/17 19:06
7439-92-1	Lead	15.1		0.142	0.712	0.1	0.5	2500	mg/Kg	1	02/17/17 19:06
7782-49-2	Selenium	< 0.142	U	0.142	0.712	0.1	0.5	1000	mg/Kg	1	02/17/17 19:06
7440-22-4	Silver	0.526	J	0.028	0.712	0.02	0.5	100	mg/Kg	1	02/17/17 19:06

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.02		0.001	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:41

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
71-55-6	1,1,1-Trichloroethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
79-34-5	1,1,2,2-Tetrachloroet	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
79-00-5	1,1,2-Trichloroethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-34-3	1,1-Dichloroethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
563-58-6	1,1-Dichloropropene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
96-18-4	1,2,3-Trichloropropan	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
120-82-1	1,2,4-Trichlorobenzen	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
95-63-6	1,2,4-Trimethylbenze	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
96-12-8	1,2-Dibromo-3-chloro	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
106-93-4	1,2-Dibromoethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
95-50-1	1,2-Dichlorobenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
107-06-2	1,2-Dichloroethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
78-87-5	1,2-Dichloropropane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
108-67-8	1,3,5-Trimethylbenze	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
541-73-1	1,3-Dichlorobenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
142-28-9	1,3-Dichloropropane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
106-46-7	1,4-Dichlorobenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
123-91-1	1,4-Dioxane	< 0.065	U	0.065	0.278	0.075	0.32	1.6	mg/Kg	0.61	02/17/17 05:17
594-20-7	2,2-Dichloropropane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
95-49-8	2-Chlorotoluene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
106-43-4	4-Chlorotoluene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
99-87-6	4-Isopropyltoluene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
71-43-2	Benzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
108-86-1	Bromobenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
74-97-5	Bromochloromethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-27-4	Bromodichloromethan	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-25-2	Bromoform	< 0.00043	U	0.00043	0.004	0.0005	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
74-83-9	Bromomethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
56-23-5	Carbon tetrachloride	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
108-90-7	Chlorobenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-00-3	Chloroethane	< 0.003	U	0.003	0.004	0.003	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
67-66-3	Chloroform	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:00
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
156-59-2	cis-1,2-Dichloroethyle	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
10061-01-5	cis-1,3-Dichloroprope	< 0.00035	U	0.00035	0.004	0.0004	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
124-48-1	Dibromochloromethan	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
74-95-3	Dibromomethane	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
100-41-4	Ethylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
98-82-8	Isopropylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
108-38-3&106-4	m- & p-Xylenes	< 0.00087	U	0.00087	0.009	0.001	0.01	0.1	mg/Kg	0.61	02/17/17 05:17
78-93-3	MEK	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-09-2	Methylene chloride	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
91-20-3	Naphthalene	< 0.00035	U	0.00035	0.004	0.0004	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
104-51-8	n-Butylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
103-65-1	n-Propylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
95-47-6	o-Xylene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
135-98-8	sec-Butylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
100-42-5	Styrene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
98-06-6	t-butylbenzene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
127-18-4	Tetrachloroethylene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
108-88-3	Toluene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
156-60-5	trans-1,2-Dichloroethy	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
10061-02-6	trans-1,3-Dichloropro	< 0.00035	U	0.00035	0.004	0.0004	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
79-01-6	Trichloroethylene	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-69-4	Trichlorofluoromethan	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
75-01-4	Vinyl Chloride	< 0.00087	U	0.00087	0.004	0.001	0.005	0.05	mg/Kg	0.61	02/17/17 05:17
1330-20-7	Xylenes	< 0.00087	U	0.00087	0.004	0.001	0.005	0.15	mg/Kg	0.61	02/17/17 05:17
17060-07-0	1,2-Dichloroethane-d4	112					70	130	%	0.61	02/17/17 05:17
1868-53-7	Dibromofluoromethan	107					70	130	%	0.61	02/17/17 05:17
2037-26-5	Toluene-d8(surr)	104					70	130	%	0.61	02/17/17 05:17
460-00-4	p-Bromofluorobenzen	113					70	130	%	0.61	02/17/17 05:17

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58
95-50-1	1,2-Dichlorobenzene	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58
541-73-1	1,3-Dichlorobenzene	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58
106-46-7	1,4-Dichlorobenzene	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58
95-95-4	2,4,5-Trichlorophenol	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58
88-06-2	2,4,6-Trichlorophenol	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58
120-83-2	2,4-Dichlorophenol	< 0.171	U	0.171	0.474	0.12	0.333	4	mg/Kg	1	02/21/17 02:58
105-67-9	2,4-Dimethylphenol	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58
51-28-5	2,4-Dinitrophenol	< 0.171	U	0.171	0.474	0.12	0.333	4	mg/Kg	1	02/21/17 02:58
121-14-2	2,4-Dinitrotoluene	< 0.013	U	0.013	0.474	0.009	0.333	4	mg/Kg	1	02/21/17 02:58
606-20-2	2,6-Dinitrotoluene	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58
91-58-7	2-Chloronaphthalene	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58
95-57-8	2-Chlorophenol	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58
91-57-6	2-Methylnaphthalene	< 0.427	U	0.427	0.474	0.30	0.333	4	mg/Kg	1	02/21/17 02:58
95-48-7	2-Methylphenol	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58
88-75-5	2-Nitrophenol	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58
108-39-4 & 106-	3- & 4-Methylphenols	< 0.185	U	0.185	0.950	0.13	0.667	8	mg/Kg	1	02/21/17 02:58
534-52-1	4,6-Dinitro-2-methylp	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58
101-55-3	4-Bromophenyl pheny	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58
59-50-7	4-Chloro-3-methylphe	< 0.199	U	0.199	0.474	0.14	0.333	4	mg/Kg	1	02/21/17 02:58
7005-72-3	4-Chlorophenyl pheny	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58
100-02-7	4-Nitrophenol	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58
83-32-9	Acenaphthene	< 0.214	U	0.214	0.474	0.15	0.333	4	mg/Kg	1	02/21/17 02:58
208-96-8	Acenaphthylene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58
120-12-7	Anthracene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58
56-55-3	Benzo(a)anthracene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58
50-32-8	Benzo(a)pyrene	< 0.427	U	0.427	0.474	0.30	0.333	4	mg/Kg	1	02/21/17 02:58
205-99-2	Benzo(b)fluoranthene	< 0.427	U	0.427	0.474	0.30	0.333	4	mg/Kg	1	02/21/17 02:58
191-24-2	Benzo(g,h,i)perylene	< 0.570	U	0.570	0.474	0.40	0.333	4	mg/Kg	1	02/21/17 02:58
207-08-9	Benzo(k)fluoranthene	< 0.214	U	0.214	0.474	0.15	0.333	4	mg/Kg	1	02/21/17 02:58
111-91-1	Bis(2-chloroethoxy) m	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58
111-44-4	Bis(2-chloroethyl) eth	< 0.427	U	0.427	0.474	0.30	0.333	4	mg/Kg	1	02/21/17 02:58
108-60-1	Bis(2-chloroisopropyl)	< 0.171	U	0.171	0.474	0.12	0.333	4	mg/Kg	1	02/21/17 02:58
117-81-7	Bis(2-ethylhexyl) phth	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58
85-68-7	Butyl benzyl phthalate	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58
218-01-9	Chrysene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58	
132-64-9	Dibenzofuran	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58	
84-66-2	Diethyl phthalate	< 0.199	U	0.199	0.474	0.14	0.333	4	mg/Kg	1	02/21/17 02:58	
131-11-3	Dimethyl phthalate	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58	
84-74-2	Di-n-butyl phthalate	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58	
117-84-0	Di-n-octyl Phthalate	< 0.128	U,V1	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58	
206-44-0	Fluoranthene	< 0.242	U	0.242	0.474	0.17	0.333	4	mg/Kg	1	02/21/17 02:58	
86-73-7	Fluorene	< 0.228	U	0.228	0.474	0.16	0.333	4	mg/Kg	1	02/21/17 02:58	
118-74-1	Hexachlorobenzene	< 0.014	U	0.014	0.474	0.010	0.333	4	mg/Kg	1	02/21/17 02:58	
87-68-3	Hexachlorobutadiene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58	
77-47-4	Hexachlorocyclopenta	< 0.171	U,V1	0.171	0.474	0.12	0.333	4	mg/Kg	1	02/21/17 02:58	
67-72-1	Hexachloroethane	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.285	U	0.285	0.474	0.20	0.333	4	mg/Kg	1	02/21/17 02:58	
78-59-1	Isophorone	< 0.185	U	0.185	0.474	0.13	0.333	4	mg/Kg	1	02/21/17 02:58	
91-20-3	Naphthalene	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58	
98-95-3	Nitrobenzene	< 0.171	U	0.171	0.474	0.12	0.333	4	mg/Kg	1	02/21/17 02:58	
62-75-9	N-Nitrosodimethylami	< 0.128	U	0.128	0.474	0.09	0.333	4	mg/Kg	1	02/21/17 02:58	
621-64-7	N-nitroso-di-n-propyla	< 0.142	U	0.142	0.474	0.10	0.333	4	mg/Kg	1	02/21/17 02:58	
87-86-5	Pentachlorophenol	< 0.199	U	0.199	0.474	0.14	0.333	4	mg/Kg	1	02/21/17 02:58	
85-01-8	Phenanthrene	< 0.285	U	0.285	0.474	0.20	0.333	4	mg/Kg	1	02/21/17 02:58	
108-95-2	Phenol	< 0.157	U	0.157	0.474	0.11	0.333	4	mg/Kg	1	02/21/17 02:58	
129-00-0	Pyrene	< 0.256	U	0.256	0.474	0.18	0.333	4	mg/Kg	1	02/21/17 02:58	
118-79-6	2,4,6-Tribromophenol	74.8						10	120	%	1	02/21/17 02:58
13127-88-3	Phenol-d6(surr)	58.8						15	120	%	1	02/21/17 02:58
132-60-8	2-Fluorobiphenyl(surr)	59.4						30	115	%	1	02/21/17 02:58
1718-51-0	p-Terphenyl-d14(surr)	55.1						30	140	%	1	02/21/17 02:58
367-12-4	2-Fluorophenol(surr)	60.6						20	115	%	1	02/21/17 02:58
4165-60-0	Nitrobenzene-d5(surr)	62.8						20	120	%	1	02/21/17 02:58

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 16:00

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.86					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-7
A&B Job Sample ID: 17020774.14

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 16:00

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 29.8

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 33.8	U	33.8	35.6	23.7	25	1000	mg/Kg	1	02/17/17 19:35
TPH-1005-2	>C12-C28 ¹	< 28.9	U	28.9	35.6	20.3	25	1000	mg/Kg	1	02/17/17 19:35
TPH-1005-4	>C28-C35 ¹	< 25.2	U	25.2	35.6	17.7	25	1000	mg/Kg	1	02/17/17 19:35
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 19:35
111-85-3	1-Chlorooctane(surr)	97.2					60	143	%	1	02/17/17 19:35
3386-33-2	Chlorooctadecane(sur)	96.7					60	150	%	1	02/17/17 19:35

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022209

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 16:30

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	19.6					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744

Sample Matrix: Soil
Date Collected: 02/14/2017 16:30
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

Analyst Initial: BRR

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	5.93		0.124	0.622	0.1	0.5	1000	mg/Kg	1	02/17/17 19:12
7440-39-3	Barium	92.8		2.49	12.4	0.1	0.5	50	mg/Kg	20	02/17/17 19:15
7440-43-9	Cadmium	0.073	J	0.05	0.622	0.04	0.5	750	mg/Kg	1	02/17/17 19:12
7440-47-3	Chromium	9.22		0.124	0.622	0.1	0.5	1000	mg/Kg	1	02/17/17 19:12
7439-92-1	Lead	5.58		0.124	0.622	0.1	0.5	2500	mg/Kg	1	02/17/17 19:12
7782-49-2	Selenium	< 0.124	U	0.124	0.622	0.1	0.5	1000	mg/Kg	1	02/17/17 19:12
7440-22-4	Silver	0.520	J	0.025	0.622	0.02	0.5	100	mg/Kg	1	02/17/17 19:12

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:30

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.012		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:51

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:30
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
71-55-6	1,1,1-Trichloroethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
79-34-5	1,1,2,2-Tetrachloroet	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
79-00-5	1,1,2-Trichloroethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-34-3	1,1-Dichloroethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
563-58-6	1,1-Dichloropropene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
96-18-4	1,2,3-Trichloropropan	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
120-82-1	1,2,4-Trichlorobenzen	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
95-63-6	1,2,4-Trimethylbenze	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
96-12-8	1,2-Dibromo-3-chloro	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
106-93-4	1,2-Dibromoethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
95-50-1	1,2-Dichlorobenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
107-06-2	1,2-Dichloroethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
78-87-5	1,2-Dichloropropane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
108-67-8	1,3,5-Trimethylbenze	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
541-73-1	1,3-Dichlorobenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
142-28-9	1,3-Dichloropropane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
106-46-7	1,4-Dichlorobenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
123-91-1	1,4-Dioxane	< 0.046	U	0.046	0.195	0.075	0.32	1.6	mg/Kg	0.49	02/17/17 05:49
594-20-7	2,2-Dichloropropane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
95-49-8	2-Chlorotoluene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
106-43-4	4-Chlorotoluene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
99-87-6	4-Isopropyltoluene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
71-43-2	Benzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
108-86-1	Bromobenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
74-97-5	Bromochloromethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-27-4	Bromodichloromethan	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-25-2	Bromoform	< 0.0003	U	0.0003	0.003	0.0005	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
74-83-9	Bromomethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
56-23-5	Carbon tetrachloride	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
108-90-7	Chlorobenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-00-3	Chloroethane	< 0.002	U	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
67-66-3	Chloroform	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:30
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
156-59-2	cis-1,2-Dichloroethyle	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
10061-01-5	cis-1,3-Dichloroprope	< 0.00024	U	0.00024	0.003	0.0004	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
124-48-1	Dibromochloromethan	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
74-95-3	Dibromomethane	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
100-41-4	Ethylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
98-82-8	Isopropylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
108-38-3&106-4	m- & p-Xylenes	< 0.00061	U	0.00061	0.006	0.001	0.01	0.1	mg/Kg	0.49	02/17/17 05:49
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-09-2	Methylene chloride	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
91-20-3	Naphthalene	< 0.00024	U	0.00024	0.003	0.0004	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
104-51-8	n-Butylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
103-65-1	n-Propylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
95-47-6	o-Xylene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
135-98-8	sec-Butylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
100-42-5	Styrene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
98-06-6	t-butylbenzene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
127-18-4	Tetrachloroethylene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
108-88-3	Toluene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
156-60-5	trans-1,2-Dichloroethy	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
10061-02-6	trans-1,3-Dichloropro	< 0.00024	U	0.00024	0.003	0.0004	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
79-01-6	Trichloroethylene	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-69-4	Trichlorofluoromethan	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
75-01-4	Vinyl Chloride	< 0.00061	U	0.00061	0.003	0.001	0.005	0.05	mg/Kg	0.49	02/17/17 05:49
1330-20-7	Xylenes	< 0.00061	U	0.00061	0.003	0.001	0.005	0.15	mg/Kg	0.49	02/17/17 05:49
17060-07-0	1,2-Dichloroethane-d4	113						70	130	%	0.49 02/17/17 05:49
1868-53-7	Dibromofluoromethan	107						70	130	%	0.49 02/17/17 05:49
2037-26-5	Toluene-d8(surr)	104						70	130	%	0.49 02/17/17 05:49
460-00-4	p-Bromofluorobenzen	111						70	130	%	0.49 02/17/17 05:49

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:30

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
95-50-1	1,2-Dichlorobenzene	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
541-73-1	1,3-Dichlorobenzene	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
106-46-7	1,4-Dichlorobenzene	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
95-95-4	2,4,5-Trichlorophenol	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
88-06-2	2,4,6-Trichlorophenol	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
120-83-2	2,4-Dichlorophenol	< 0.149	U	0.149	0.414	0.12	0.333	4	mg/Kg	1	02/22/17 03:15
105-67-9	2,4-Dimethylphenol	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
51-28-5	2,4-Dinitrophenol	< 0.149	U	0.149	0.414	0.12	0.333	4	mg/Kg	1	02/22/17 03:15
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.414	0.009	0.333	4	mg/Kg	1	02/22/17 03:15
606-20-2	2,6-Dinitrotoluene	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
91-58-7	2-Chloronaphthalene	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
95-57-8	2-Chlorophenol	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
91-57-6	2-Methylnaphthalene	< 0.373	U	0.373	0.414	0.30	0.333	4	mg/Kg	1	02/22/17 03:15
95-48-7	2-Methylphenol	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
88-75-5	2-Nitrophenol	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
108-39-4 & 106-	3- & 4-Methylphenols	< 0.162	U	0.162	0.830	0.13	0.667	8	mg/Kg	1	02/22/17 03:15
534-52-1	4,6-Dinitro-2-methylp	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
101-55-3	4-Bromophenyl pheny	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
59-50-7	4-Chloro-3-methylphe	< 0.174	U	0.174	0.414	0.14	0.333	4	mg/Kg	1	02/22/17 03:15
7005-72-3	4-Chlorophenyl pheny	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
100-02-7	4-Nitrophenol	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
83-32-9	Acenaphthene	< 0.187	U	0.187	0.414	0.15	0.333	4	mg/Kg	1	02/22/17 03:15
208-96-8	Acenaphthylene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
120-12-7	Anthracene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
56-55-3	Benzo(a)anthracene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
50-32-8	Benzo(a)pyrene	< 0.373	U	0.373	0.414	0.30	0.333	4	mg/Kg	1	02/22/17 03:15
205-99-2	Benzo(b)fluoranthene	< 0.373	U	0.373	0.414	0.30	0.333	4	mg/Kg	1	02/22/17 03:15
191-24-2	Benzo(g,h,i)perylene	< 0.498	U	0.498	0.414	0.40	0.333	4	mg/Kg	1	02/22/17 03:15
207-08-9	Benzo(k)fluoranthene	< 0.187	U	0.187	0.414	0.15	0.333	4	mg/Kg	1	02/22/17 03:15
111-91-1	Bis(2-chloroethoxy) m	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
111-44-4	Bis(2-chloroethyl) eth	< 0.373	U	0.373	0.414	0.30	0.333	4	mg/Kg	1	02/22/17 03:15
108-60-1	Bis(2-chloroisopropyl)	< 0.149	U	0.149	0.414	0.12	0.333	4	mg/Kg	1	02/22/17 03:15
117-81-7	Bis(2-ethylhexyl) phth	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
85-68-7	Butyl benzyl phthalate	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
218-01-9	Chrysene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:30

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
132-64-9	Dibenzofuran	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
84-66-2	Diethyl phthalate	< 0.174	U	0.174	0.414	0.14	0.333	4	mg/Kg	1	02/22/17 03:15
131-11-3	Dimethyl phthalate	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
84-74-2	Di-n-butyl phthalate	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
117-84-0	Di-n-octyl Phthalate	< 0.112	U,V1	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
206-44-0	Fluoranthene	< 0.211	U	0.211	0.414	0.17	0.333	4	mg/Kg	1	02/22/17 03:15
86-73-7	Fluorene	< 0.199	U	0.199	0.414	0.16	0.333	4	mg/Kg	1	02/22/17 03:15
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.414	0.010	0.333	4	mg/Kg	1	02/22/17 03:15
87-68-3	Hexachlorobutadiene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
77-47-4	Hexachlorocyclopenta	< 0.149	U,V1	0.149	0.414	0.12	0.333	4	mg/Kg	1	02/22/17 03:15
67-72-1	Hexachloroethane	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
193-39-5	Indeno(1,2,3-cd)pyre	< 0.249	U	0.249	0.414	0.20	0.333	4	mg/Kg	1	02/22/17 03:15
78-59-1	Isophorone	< 0.162	U	0.162	0.414	0.13	0.333	4	mg/Kg	1	02/22/17 03:15
91-20-3	Naphthalene	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
98-95-3	Nitrobenzene	< 0.149	U	0.149	0.414	0.12	0.333	4	mg/Kg	1	02/22/17 03:15
62-75-9	N-Nitrosodimethylami	< 0.112	U	0.112	0.414	0.09	0.333	4	mg/Kg	1	02/22/17 03:15
621-64-7	N-nitroso-di-n-propyla	< 0.124	U	0.124	0.414	0.10	0.333	4	mg/Kg	1	02/22/17 03:15
87-86-5	Pentachlorophenol	< 0.174	U	0.174	0.414	0.14	0.333	4	mg/Kg	1	02/22/17 03:15
85-01-8	Phenanthrene	< 0.249	U	0.249	0.414	0.20	0.333	4	mg/Kg	1	02/22/17 03:15
108-95-2	Phenol	< 0.137	U	0.137	0.414	0.11	0.333	4	mg/Kg	1	02/22/17 03:15
129-00-0	Pyrene	< 0.224	U	0.224	0.414	0.18	0.333	4	mg/Kg	1	02/22/17 03:15
118-79-6	2,4,6-Tribromophenol	82						10 120	%	1	02/22/17 03:15
13127-88-3	Phenol-d6(surr)	59.4						15 120	%	1	02/22/17 03:15
132-60-8	2-Fluorobiphenyl(surr)	58						30 115	%	1	02/22/17 03:15
1718-51-0	p-Terphenyl-d14(surr)	60.9						30 140	%	1	02/22/17 03:15
367-12-4	2-Fluorophenol(surr)	61.1						20 115	%	1	02/22/17 03:15
4165-60-0	Nitrobenzene-d5(surr)	65.6						20 120	%	1	02/22/17 03:15

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 16:30

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.34					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-8
A&B Job Sample ID: 17020774.15

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 16:30

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 19.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 29.5	U	29.5	31.1	23.7	25	1000	mg/Kg	1	02/17/17 20:04
TPH-1005-2	>C12-C28 ¹	< 25.2	U	25.2	31.1	20.3	25	1000	mg/Kg	1	02/17/17 20:04
TPH-1005-4	>C28-C35 ¹	< 22	U	22	31.1	17.7	25	1000	mg/Kg	1	02/17/17 20:04
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 20:04
111-85-3	1-Chlorooctane(surr)	72.3					60	143	%	1	02/17/17 20:04
3386-33-2	Chlorooctadecane(sur	72.6					60	150	%	1	02/17/17 20:04

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-9

Date: 2/23/2017

A&B Job Sample ID: 17020774.16

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022210

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	33.5					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744

Sample Matrix: Soil
Date Collected: 02/14/2017 16:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

Analyst Initial: BRR

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	5.86		0.150	0.752	0.1	0.5	1000	mg/Kg	1	02/17/17 19:18
7440-39-3	Barium	177		3.01	15	0.1	0.5	50	mg/Kg	20	02/17/17 19:31
7440-43-9	Cadmium	0.096	J	0.06	0.752	0.04	0.5	750	mg/Kg	1	02/17/17 19:18
7440-47-3	Chromium	6.66		0.150	0.752	0.1	0.5	1000	mg/Kg	1	02/17/17 19:18
7439-92-1	Lead	9.25		0.150	0.752	0.1	0.5	2500	mg/Kg	1	02/17/17 19:18
7782-49-2	Selenium	< 0.150	U	0.150	0.752	0.1	0.5	1000	mg/Kg	1	02/17/17 19:18
7440-22-4	Silver	0.708	J	0.03	0.752	0.02	0.5	100	mg/Kg	1	02/17/17 19:18

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.008		0.002	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:54

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
71-55-6	1,1,1-Trichloroethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
79-34-5	1,1,2,2-Tetrachloroet	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
79-00-5	1,1,2-Trichloroethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-34-3	1,1-Dichloroethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
563-58-6	1,1-Dichloropropene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
96-18-4	1,2,3-Trichloropropan	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
120-82-1	1,2,4-Trichlorobenzen	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
95-63-6	1,2,4-Trimethylbenze	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
96-12-8	1,2-Dibromo-3-chloro	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
106-93-4	1,2-Dibromoethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
95-50-1	1,2-Dichlorobenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
107-06-2	1,2-Dichloroethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
78-87-5	1,2-Dichloropropane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
108-67-8	1,3,5-Trimethylbenze	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
541-73-1	1,3-Dichlorobenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
142-28-9	1,3-Dichloropropane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
106-46-7	1,4-Dichlorobenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
123-91-1	1,4-Dioxane	< 0.056	U	0.056	0.241	0.075	0.32	1.6	mg/Kg	0.50	02/17/17 06:21
594-20-7	2,2-Dichloropropane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
95-49-8	2-Chlorotoluene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
106-43-4	4-Chlorotoluene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
99-87-6	4-Isopropyltoluene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
71-43-2	Benzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
108-86-1	Bromobenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
74-97-5	Bromochloromethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-27-4	Bromodichloromethan	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-25-2	Bromoform	< 0.00038	U	0.00038	0.004	0.0005	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
74-83-9	Bromomethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
56-23-5	Carbon tetrachloride	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
108-90-7	Chlorobenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-00-3	Chloroethane	< 0.002	U	0.002	0.004	0.003	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
67-66-3	Chloroform	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 16:45
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
156-59-2	cis-1,2-Dichloroethyle	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
10061-01-5	cis-1,3-Dichloroprope	< 0.0003	U	0.0003	0.004	0.0004	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
124-48-1	Dibromochloromethan	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
74-95-3	Dibromomethane	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
100-41-4	Ethylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
98-82-8	Isopropylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
108-38-3&106-4	m- & p-Xylenes	< 0.00075	U	0.00075	0.008	0.001	0.01	0.1	mg/Kg	0.50	02/17/17 06:21
78-93-3	MEK	< 0.002	U	0.002	0.004	0.002	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-09-2	Methylene chloride	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
91-20-3	Naphthalene	< 0.0003	U	0.0003	0.004	0.0004	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
104-51-8	n-Butylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
103-65-1	n-Propylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
95-47-6	o-Xylene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
135-98-8	sec-Butylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
100-42-5	Styrene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
98-06-6	t-butylbenzene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
127-18-4	Tetrachloroethylene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
108-88-3	Toluene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
156-60-5	trans-1,2-Dichloroethy	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
10061-02-6	trans-1,3-Dichloropro	< 0.0003	U	0.0003	0.004	0.0004	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
79-01-6	Trichloroethylene	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-69-4	Trichlorofluoromethan	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
75-01-4	Vinyl Chloride	< 0.00075	U	0.00075	0.004	0.001	0.005	0.05	mg/Kg	0.50	02/17/17 06:21
1330-20-7	Xylenes	< 0.00075	U	0.00075	0.004	0.001	0.005	0.15	mg/Kg	0.50	02/17/17 06:21
17060-07-0	1,2-Dichloroethane-d4	114					70	130	%	0.50	02/17/17 06:21
1868-53-7	Dibromofluoromethan	106					70	130	%	0.50	02/17/17 06:21
2037-26-5	Toluene-d8(surr)	102					70	130	%	0.50	02/17/17 06:21
460-00-4	p-Bromofluorobenzen	112					70	130	%	0.50	02/17/17 06:21

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59
95-50-1	1,2-Dichlorobenzene	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59
541-73-1	1,3-Dichlorobenzene	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59
106-46-7	1,4-Dichlorobenzene	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59
95-95-4	2,4,5-Trichlorophenol	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59
88-06-2	2,4,6-Trichlorophenol	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59
120-83-2	2,4-Dichlorophenol	< 0.180	U	0.180	0.501	0.12	0.333	4	mg/Kg	1	02/22/17 03:59
105-67-9	2,4-Dimethylphenol	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59
51-28-5	2,4-Dinitrophenol	< 0.180	U	0.180	0.501	0.12	0.333	4	mg/Kg	1	02/22/17 03:59
121-14-2	2,4-Dinitrotoluene	< 0.014	U	0.014	0.501	0.009	0.333	4	mg/Kg	1	02/22/17 03:59
606-20-2	2,6-Dinitrotoluene	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59
91-58-7	2-Chloronaphthalene	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59
95-57-8	2-Chlorophenol	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59
91-57-6	2-Methylnaphthalene	< 0.451	U	0.451	0.501	0.30	0.333	4	mg/Kg	1	02/22/17 03:59
95-48-7	2-Methylphenol	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59
88-75-5	2-Nitrophenol	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59
108-39-4 & 106-	3- & 4-Methylphenols	< 0.195	U	0.195	1.00	0.13	0.667	8	mg/Kg	1	02/22/17 03:59
534-52-1	4,6-Dinitro-2-methylp	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59
101-55-3	4-Bromophenyl pheny	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59
59-50-7	4-Chloro-3-methylphe	< 0.211	U	0.211	0.501	0.14	0.333	4	mg/Kg	1	02/22/17 03:59
7005-72-3	4-Chlorophenyl pheny	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59
100-02-7	4-Nitrophenol	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59
83-32-9	Acenaphthene	< 0.226	U	0.226	0.501	0.15	0.333	4	mg/Kg	1	02/22/17 03:59
208-96-8	Acenaphthylene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59
120-12-7	Anthracene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59
56-55-3	Benzo(a)anthracene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59
50-32-8	Benzo(a)pyrene	< 0.451	U	0.451	0.501	0.30	0.333	4	mg/Kg	1	02/22/17 03:59
205-99-2	Benzo(b)fluoranthene	< 0.451	U	0.451	0.501	0.30	0.333	4	mg/Kg	1	02/22/17 03:59
191-24-2	Benzo(g,h,i)perylene	< 0.602	U	0.602	0.501	0.40	0.333	4	mg/Kg	1	02/22/17 03:59
207-08-9	Benzo(k)fluoranthene	< 0.226	U	0.226	0.501	0.15	0.333	4	mg/Kg	1	02/22/17 03:59
111-91-1	Bis(2-chloroethoxy) m	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59
111-44-4	Bis(2-chloroethyl) eth	< 0.451	U	0.451	0.501	0.30	0.333	4	mg/Kg	1	02/22/17 03:59
108-60-1	Bis(2-chloroisopropyl)	< 0.180	U	0.180	0.501	0.12	0.333	4	mg/Kg	1	02/22/17 03:59
117-81-7	Bis(2-ethylhexyl) phth	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59
85-68-7	Butyl benzyl phthalate	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59
218-01-9	Chrysene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59	
132-64-9	Dibenzofuran	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59	
84-66-2	Diethyl phthalate	< 0.211	U	0.211	0.501	0.14	0.333	4	mg/Kg	1	02/22/17 03:59	
131-11-3	Dimethyl phthalate	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59	
84-74-2	Di-n-butyl phthalate	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59	
117-84-0	Di-n-octyl Phthalate	< 0.135	U,V1	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59	
206-44-0	Fluoranthene	< 0.256	U	0.256	0.501	0.17	0.333	4	mg/Kg	1	02/22/17 03:59	
86-73-7	Fluorene	< 0.241	U	0.241	0.501	0.16	0.333	4	mg/Kg	1	02/22/17 03:59	
118-74-1	Hexachlorobenzene	< 0.015	U	0.015	0.501	0.010	0.333	4	mg/Kg	1	02/22/17 03:59	
87-68-3	Hexachlorobutadiene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59	
77-47-4	Hexachlorocyclopenta	< 0.180	U,V1	0.180	0.501	0.12	0.333	4	mg/Kg	1	02/22/17 03:59	
67-72-1	Hexachloroethane	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.301	U	0.301	0.501	0.20	0.333	4	mg/Kg	1	02/22/17 03:59	
78-59-1	Isophorone	< 0.195	U	0.195	0.501	0.13	0.333	4	mg/Kg	1	02/22/17 03:59	
91-20-3	Naphthalene	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59	
98-95-3	Nitrobenzene	< 0.180	U	0.180	0.501	0.12	0.333	4	mg/Kg	1	02/22/17 03:59	
62-75-9	N-Nitrosodimethylami	< 0.135	U	0.135	0.501	0.09	0.333	4	mg/Kg	1	02/22/17 03:59	
621-64-7	N-nitroso-di-n-propyla	< 0.150	U	0.150	0.501	0.10	0.333	4	mg/Kg	1	02/22/17 03:59	
87-86-5	Pentachlorophenol	< 0.211	U	0.211	0.501	0.14	0.333	4	mg/Kg	1	02/22/17 03:59	
85-01-8	Phenanthrene	< 0.301	U	0.301	0.501	0.20	0.333	4	mg/Kg	1	02/22/17 03:59	
108-95-2	Phenol	< 0.165	U	0.165	0.501	0.11	0.333	4	mg/Kg	1	02/22/17 03:59	
129-00-0	Pyrene	< 0.271	U	0.271	0.501	0.18	0.333	4	mg/Kg	1	02/22/17 03:59	
118-79-6	2,4,6-Tribromophenol	93.3						10	120	%	1	02/22/17 03:59
13127-88-3	Phenol-d6(surr)	64.7						15	120	%	1	02/22/17 03:59
132-60-8	2-Fluorobiphenyl(surr)	72.1						30	115	%	1	02/22/17 03:59
1718-51-0	p-Terphenyl-d14(surr)	74						30	140	%	1	02/22/17 03:59
367-12-4	2-Fluorophenol(surr)	68.1						20	115	%	1	02/22/17 03:59
4165-60-0	Nitrobenzene-d5(surr)	79.8						20	120	%	1	02/22/17 03:59

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-9
A&B Job Sample ID: 17020774.16

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 16:45

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	9.15					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-9

Date: 2/23/2017

A&B Job Sample ID: 17020774.16

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Test Description: **Total Petroleum Hydrocarbons**

Sample Matrix: Soil

Analytical Method: TX 1005

Date Collected: 02/14/2017 16:45

QC Batch ID: Qb17022207

Date Received: 02/15/2017 08:06

Prep Method: TX 1005

Date Prepared: 02/15/2017 17:00

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

% Moisture: 33.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 35.6	U	35.6	37.6	23.7	25	1000	mg/Kg	1	02/17/17 20:32
TPH-1005-2	>C12-C28 ¹	< 30.5	U	30.5	37.6	20.3	25	1000	mg/Kg	1	02/17/17 20:32
TPH-1005-4	>C28-C35 ¹	< 26.6	U	26.6	37.6	17.7	25	1000	mg/Kg	1	02/17/17 20:32
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 20:32
111-85-3	1-Chlorooctane(surr)	90.1					60	143	%	1	02/17/17 20:32
3386-33-2	Chlorooctadecane(sur	89.5					60	150	%	1	02/17/17 20:32

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:19
7440-39-3	Barium	0.388		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 01:19
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 01:19
7440-47-3	Chromium	0.009	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:19
7439-92-1	Lead	0.008	J	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 01:19
7782-49-2	Selenium	0.016	J	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:19
7440-22-4	Silver	0.001	J	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 01:19

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:52

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 20:49
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 20:49
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 20:49
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 20:49
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 20:49
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 20:49
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 20:49
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 20:49
17060-07-0	1,2-Dichloroethane-d4	125					70	130	%	1	02/16/17 20:49
1868-53-7	Dibromofluoromethan	111					70	130	%	1	02/16/17 20:49
2037-26-5	Toluene-d8(surr)	103					70	130	%	1	02/16/17 20:49
460-00-4	p-Bromofluorobenzen	103					70	130	%	1	02/16/17 20:49

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 23:35
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 23:35
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 23:35
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 23:35
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/21/17 23:35
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/21/17 23:35
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/21/17 23:35
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 23:35

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/21/17 23:35	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/21/17 23:35	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/21/17 23:35	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/21/17 23:35	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/21/17 23:35	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/21/17 23:35	
118-79-6	2,4,6-Tribromophenol	10.6	S2					19	122	%	1	02/21/17 23:35
13127-88-3	Phenol-d6(surr)	2.67	S2					10	130	%	1	02/21/17 23:35
132-60-8	2-Fluorobiphenyl(surr)	7.96	S2					30	115	%	1	02/21/17 23:35
1718-51-0	p-Terphenyl-d14(surr)	7.63	S2					18	137	%	1	02/21/17 23:35
367-12-4	2-Fluorophenol(surr)	4.42	S2					15	115	%	1	02/21/17 23:35
4165-60-0	Nitrobenzene-d5(surr)	9.54	S2					23	120	%	1	02/21/17 23:35

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-9
A&B Job Sample ID: 17020774.17

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 16:45

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.627	U	0.627	1.43	0.66	1.5	60	mg/L	0.95	02/17/17 13:39
TPH-1005-2	>C12-C28 ¹	< 0.817	U	0.817	1.43	0.86	1.5	60	mg/L	0.95	02/17/17 13:39
TPH-1005-4	>C28-C35 ¹	< 0.713	U	0.713	1.43	0.75	1.5	60	mg/L	0.95	02/17/17 13:39
	Total C6-C35	<					----	----	mg/L	0.95	02/17/17 13:39
111-85-3	1-Chlorooctane(surr)	91.4					59	122	%	0.95	02/17/17 13:39
3386-33-2	Chlorooctadecane(sur	95.1					48	123	%	0.95	02/17/17 13:39

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022210

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022209

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/22/2017 10:24

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	30.6					----	----	%	1	02/22/17 10:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17021764
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17021744
Analyst Initial: BRR

Sample Matrix: Soil
Date Collected: 02/14/2017 17:15
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 10:40

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	4.33		0.144	0.720	0.1	0.5	1000	mg/Kg	1	02/17/17 19:34
7440-39-3	Barium	269		2.88	14.4	0.1	0.5	50	mg/Kg	20	02/17/17 19:37
7440-43-9	Cadmium	0.079	J	0.058	0.720	0.04	0.5	750	mg/Kg	1	02/17/17 19:34
7440-47-3	Chromium	8.49		0.144	0.720	0.1	0.5	1000	mg/Kg	1	02/17/17 19:34
7439-92-1	Lead	14.2		0.144	0.720	0.1	0.5	2500	mg/Kg	1	02/17/17 19:34
7782-49-2	Selenium	< 0.144	U	0.144	0.720	0.1	0.5	1000	mg/Kg	1	02/17/17 19:34
7440-22-4	Silver	0.641	J	0.029	0.720	0.02	0.5	100	mg/Kg	1	02/17/17 19:34

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17021649

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17021640

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.034		0.001	0.006	0.001	0.004	0.2	mg/Kg	1	02/16/17 13:56

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 17:15
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
71-55-6	1,1,1-Trichloroethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
79-34-5	1,1,2,2-Tetrachloroet	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
79-00-5	1,1,2-Trichloroethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-34-3	1,1-Dichloroethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
563-58-6	1,1-Dichloropropene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
96-18-4	1,2,3-Trichloropropan	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
120-82-1	1,2,4-Trichlorobenzen	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
95-63-6	1,2,4-Trimethylbenze	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
96-12-8	1,2-Dibromo-3-chloro	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
106-93-4	1,2-Dibromoethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
95-50-1	1,2-Dichlorobenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
107-06-2	1,2-Dichloroethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
78-87-5	1,2-Dichloropropane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
108-67-8	1,3,5-Trimethylbenze	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
541-73-1	1,3-Dichlorobenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
142-28-9	1,3-Dichloropropane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
106-46-7	1,4-Dichlorobenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
123-91-1	1,4-Dioxane	< 0.046	U	0.046	0.198	0.075	0.32	1.6	mg/Kg	0.43	02/17/17 06:53
594-20-7	2,2-Dichloropropane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
95-49-8	2-Chlorotoluene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
106-43-4	4-Chlorotoluene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
99-87-6	4-Isopropyltoluene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
71-43-2	Benzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
108-86-1	Bromobenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
74-97-5	Bromochloromethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-27-4	Bromodichloromethan	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-25-2	Bromoform	< 0.00031	U	0.00031	0.003	0.0005	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
74-83-9	Bromomethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
56-23-5	Carbon tetrachloride	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
108-90-7	Chlorobenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-00-3	Chloroethane	< 0.002	U	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
67-66-3	Chloroform	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17021722
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17021707

Sample Matrix: Soil
Date Collected: 02/14/2017 17:15
Date Received: 02/15/2017 08:06
Date Prepared: 02/16/2017 11:30

Analyst Initial: JKD

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
156-59-2	cis-1,2-Dichloroethyle	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
10061-01-5	cis-1,3-Dichloroprope	< 0.00025	U	0.00025	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
124-48-1	Dibromochloromethan	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
74-95-3	Dibromomethane	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
100-41-4	Ethylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
98-82-8	Isopropylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
108-38-3&106-4	m- & p-Xylenes	< 0.00062	U	0.00062	0.006	0.001	0.01	0.1	mg/Kg	0.43	02/17/17 06:53
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-09-2	Methylene chloride	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
91-20-3	Naphthalene	< 0.00025	U	0.00025	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
104-51-8	n-Butylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
103-65-1	n-Propylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
95-47-6	o-Xylene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
135-98-8	sec-Butylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
100-42-5	Styrene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
98-06-6	t-butylbenzene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
127-18-4	Tetrachloroethylene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
108-88-3	Toluene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
156-60-5	trans-1,2-Dichloroethy	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
10061-02-6	trans-1,3-Dichloropro	< 0.00025	U	0.00025	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
79-01-6	Trichloroethylene	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-69-4	Trichlorofluoromethan	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
75-01-4	Vinyl Chloride	< 0.00062	U	0.00062	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/17/17 06:53
1330-20-7	Xylenes	< 0.00062	U	0.00062	0.003	0.001	0.005	0.15	mg/Kg	0.43	02/17/17 06:53
17060-07-0	1,2-Dichloroethane-d4	115					70	130	%	0.43	02/17/17 06:53
1868-53-7	Dibromofluoromethan	107					70	130	%	0.43	02/17/17 06:53
2037-26-5	Toluene-d8(surr)	101					70	130	%	0.43	02/17/17 06:53
460-00-4	p-Bromofluorobenzen	107					70	130	%	0.43	02/17/17 06:53

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
95-50-1	1,2-Dichlorobenzene	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
541-73-1	1,3-Dichlorobenzene	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
106-46-7	1,4-Dichlorobenzene	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
95-95-4	2,4,5-Trichlorophenol	< 0.187	U	0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
88-06-2	2,4,6-Trichlorophenol	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
120-83-2	2,4-Dichlorophenol	< 0.173	U	0.173	0.480	0.12	0.333	4	mg/Kg	1	02/22/17 05:24
105-67-9	2,4-Dimethylphenol	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
51-28-5	2,4-Dinitrophenol	< 0.173	U	0.173	0.480	0.12	0.333	4	mg/Kg	1	02/22/17 05:24
121-14-2	2,4-Dinitrotoluene	< 0.013	U	0.013	0.480	0.009	0.333	4	mg/Kg	1	02/22/17 05:24
606-20-2	2,6-Dinitrotoluene	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
91-58-7	2-Chloronaphthalene	< 0.187	U	0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
95-57-8	2-Chlorophenol	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
91-57-6	2-Methylnaphthalene	< 0.432	U	0.432	0.480	0.30	0.333	4	mg/Kg	1	02/22/17 05:24
95-48-7	2-Methylphenol	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
88-75-5	2-Nitrophenol	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
108-39-4 & 106-	3- & 4-Methylphenols	< 0.187	U	0.187	0.961	0.13	0.667	8	mg/Kg	1	02/22/17 05:24
534-52-1	4,6-Dinitro-2-methylp	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
101-55-3	4-Bromophenyl pheny	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
59-50-7	4-Chloro-3-methylphe	< 0.202	U	0.202	0.480	0.14	0.333	4	mg/Kg	1	02/22/17 05:24
7005-72-3	4-Chlorophenyl pheny	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
100-02-7	4-Nitrophenol	< 0.187	U	0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
83-32-9	Acenaphthene	< 0.216	U	0.216	0.480	0.15	0.333	4	mg/Kg	1	02/22/17 05:24
208-96-8	Acenaphthylene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
120-12-7	Anthracene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
56-55-3	Benzo(a)anthracene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
50-32-8	Benzo(a)pyrene	< 0.432	U	0.432	0.480	0.30	0.333	4	mg/Kg	1	02/22/17 05:24
205-99-2	Benzo(b)fluoranthene	< 0.432	U	0.432	0.480	0.30	0.333	4	mg/Kg	1	02/22/17 05:24
191-24-2	Benzo(g,h,i)perylene	< 0.576	U	0.576	0.480	0.40	0.333	4	mg/Kg	1	02/22/17 05:24
207-08-9	Benzo(k)fluoranthene	< 0.216	U	0.216	0.480	0.15	0.333	4	mg/Kg	1	02/22/17 05:24
111-91-1	Bis(2-chloroethoxy) m	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
111-44-4	Bis(2-chloroethyl) eth	< 0.432	U	0.432	0.480	0.30	0.333	4	mg/Kg	1	02/22/17 05:24
108-60-1	Bis(2-chloroisopropyl)	< 0.173	U	0.173	0.480	0.12	0.333	4	mg/Kg	1	02/22/17 05:24
117-81-7	Bis(2-ethylhexyl) phth	0.604		0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
85-68-7	Butyl benzyl phthalate	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
218-01-9	Chrysene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022145

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17021668

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 11:00

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.187	U	0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
132-64-9	Dibenzofuran	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
84-66-2	Diethyl phthalate	< 0.202	U	0.202	0.480	0.14	0.333	4	mg/Kg	1	02/22/17 05:24
131-11-3	Dimethyl phthalate	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
84-74-2	Di-n-butyl phthalate	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
117-84-0	Di-n-octyl Phthalate	< 0.130	U,V1	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
206-44-0	Fluoranthene	< 0.245	U	0.245	0.480	0.17	0.333	4	mg/Kg	1	02/22/17 05:24
86-73-7	Fluorene	< 0.231	U	0.231	0.480	0.16	0.333	4	mg/Kg	1	02/22/17 05:24
118-74-1	Hexachlorobenzene	< 0.014	U	0.014	0.480	0.010	0.333	4	mg/Kg	1	02/22/17 05:24
87-68-3	Hexachlorobutadiene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
77-47-4	Hexachlorocyclopenta	< 0.173	U,V1	0.173	0.480	0.12	0.333	4	mg/Kg	1	02/22/17 05:24
67-72-1	Hexachloroethane	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
193-39-5	Indeno(1,2,3-cd)pyre	< 0.288	U	0.288	0.480	0.20	0.333	4	mg/Kg	1	02/22/17 05:24
78-59-1	Isophorone	< 0.187	U	0.187	0.480	0.13	0.333	4	mg/Kg	1	02/22/17 05:24
91-20-3	Naphthalene	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
98-95-3	Nitrobenzene	< 0.173	U	0.173	0.480	0.12	0.333	4	mg/Kg	1	02/22/17 05:24
62-75-9	N-Nitrosodimethylami	< 0.130	U	0.130	0.480	0.09	0.333	4	mg/Kg	1	02/22/17 05:24
621-64-7	N-nitroso-di-n-propyla	< 0.144	U	0.144	0.480	0.10	0.333	4	mg/Kg	1	02/22/17 05:24
87-86-5	Pentachlorophenol	< 0.202	U	0.202	0.480	0.14	0.333	4	mg/Kg	1	02/22/17 05:24
85-01-8	Phenanthrene	< 0.288	U	0.288	0.480	0.20	0.333	4	mg/Kg	1	02/22/17 05:24
108-95-2	Phenol	< 0.159	U	0.159	0.480	0.11	0.333	4	mg/Kg	1	02/22/17 05:24
129-00-0	Pyrene	< 0.259	U	0.259	0.480	0.18	0.333	4	mg/Kg	1	02/22/17 05:24
118-79-6	2,4,6-Tribromophenol	80.1						10 120	%	1	02/22/17 05:24
13127-88-3	Phenol-d6(surr)	57.7						15 120	%	1	02/22/17 05:24
132-60-8	2-Fluorobiphenyl(surr)	61.4						30 115	%	1	02/22/17 05:24
1718-51-0	p-Terphenyl-d14(surr)	75.9						30 140	%	1	02/22/17 05:24
367-12-4	2-Fluorophenol(surr)	61.3						20 115	%	1	02/22/17 05:24
4165-60-0	Nitrobenzene-d5(surr)	63.2						20 120	%	1	02/22/17 05:24

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17022265

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/14/2017 17:15

Date Received 02/15/2017 08:06

Date Prepared

% Moisture 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.28					----	----	s.u.		02/22/17 15:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSD-10
A&B Job Sample ID: 17020774.18

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022207

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17022208

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/15/2017 17:00

% Moisture: 30.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 34.1	U	34.1	36	23.7	25	1000	mg/Kg	1	02/17/17 21:01
TPH-1005-2	>C12-C28 ¹	< 29.3	U	29.3	36	20.3	25	1000	mg/Kg	1	02/17/17 21:01
TPH-1005-4	>C28-C35 ¹	< 25.5	U	25.5	36	17.7	25	1000	mg/Kg	1	02/17/17 21:01
	Total C6-C35	<					----	----	mg/Kg	1	02/17/17 21:01
111-85-3	1-Chlorooctane(surr)	92.3					60	143	%	1	02/17/17 21:01
3386-33-2	Chlorooctadecane(sur)	91.6					60	150	%	1	02/17/17 21:01

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: SW-846 6010C

QC Batch ID: Qb17022033

Prep Method: SW-846 3010A

Prepared By: Mwisman

Prep Batch ID: PB17022030

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:22
7440-39-3	Barium	0.516		0.004	0.02	0.004	0.02	2	mg/L	1	02/21/17 01:22
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	02/21/17 01:22
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:22
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	02/21/17 01:22
7782-49-2	Selenium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	02/21/17 01:22
7440-22-4	Silver	0.001	J	0.001	0.02	0.001	0.02	4	mg/L	1	02/21/17 01:22

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17022013

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17022013

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/20/2017 08:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.00006	U	0.00006	0.0002	0.00006	0.0002	0.01	mg/L	1	02/20/17 12:54

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/16/17 21:23
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 21:23
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 21:23
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022134

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022123

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/16/17 21:23
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/16/17 21:23
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/16/17 21:23
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/16/17 21:23
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/16/17 21:23
17060-07-0	1,2-Dichloroethane-d4	122						70 130	%	1	02/16/17 21:23
1868-53-7	Dibromofluoromethan	114						70 130	%	1	02/16/17 21:23
2037-26-5	Toluene-d8(surr)	100						70 130	%	1	02/16/17 21:23
460-00-4	p-Bromofluorobenzen	107						70 130	%	1	02/16/17 21:23

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/22/17 00:19
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/22/17 00:19
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/22/17 00:19
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/22/17 00:19
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	02/22/17 00:19
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	02/22/17 00:19
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
59-50-7	4-Chloro-3-methylphe	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
100-02-7	4-Nitrophenol	< 0.004	U,V1	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U,V7	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	02/22/17 00:19
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/22/17 00:19

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17022205

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17021719

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/17/2017 11:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	02/22/17 00:19
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	02/22/17 00:19
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	02/22/17 00:19
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	02/22/17 00:19
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	02/22/17 00:19
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	02/22/17 00:19
118-79-6	2,4,6-Tribromophenol	44.1						19	122	%	1 02/22/17 00:19
13127-88-3	Phenol-d6(surr)	8.28	S2					10	130	%	1 02/22/17 00:19
132-60-8	2-Fluorobiphenyl(surr)	39.5						30	115	%	1 02/22/17 00:19
1718-51-0	p-Terphenyl-d14(surr)	42.5						18	137	%	1 02/22/17 00:19
367-12-4	2-Fluorophenol(surr)	15.6						15	115	%	1 02/22/17 00:19
4165-60-0	Nitrobenzene-d5(surr)	39.9						23	120	%	1 02/22/17 00:19

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SRSW-10
A&B Job Sample ID: 17020774.19

Date: 2/23/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17022067

Prep Method: TX 1005

Prepared By: VNair

Prep Batch ID: PB17022061

Analyst Initial: AVB

Sample Matrix: Water

Date Collected: 02/14/2017 17:15

Date Received: 02/15/2017 08:06

Date Prepared: 02/16/2017 16:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.620	U	0.620	1.41	0.66	1.5	60	mg/L	0.94	02/17/17 14:05
TPH-1005-2	>C12-C28 ¹	< 0.808	U	0.808	1.41	0.86	1.5	60	mg/L	0.94	02/17/17 14:05
TPH-1005-4	>C28-C35 ¹	< 0.705	U	0.705	1.41	0.75	1.5	60	mg/L	0.94	02/17/17 14:05
	Total C6-C35	<					----	----	mg/L	0.94	02/17/17 14:05
111-85-3	1-Chlorooctane(surr)	118					59	122	%	0.94	02/17/17 14:05
3386-33-2	Chlorooctadecane(sur	127	S1				48	123	%	0.94	02/17/17 14:05

Soil results reported on dry weight basis

¹-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Metals - Mercury **Method :** SW-846 7470A **Reporting Units :** mg/Kg

QC Batch ID : Qb17021649 **Created Date :** 02/16/17 **Created By :** csmith

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

Digestion : PB17021640 **Prep Method :** SW-846 7470A **Prep Date :** 02/16/17 11:00 **Prep By :** JYou

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Mercury	7439-97-6	< MDL	mg/Kg	1	0.004	0.001	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.1	0.10597	106	0.1	0.09858	98.6	7.2	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17020774.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	0.01792	0.1	0.11037	92.5						70-130	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds Method : SW-846 8260C Reporting Units : mg/Kg

QC Batch ID : Qb17021722 Created Date : 02/16/17 Created By : Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

Sample Preparation : PB17021707 Prep Method : SW-846 5035A Prep Date : 02/16/17 11:30 Prep By : Jdongre

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1,2-Tetrachloroethane	630-20-6	< MDL	mg/Kg	1	0.005	0.001	
1,1,1-Trichloroethane	71-55-6	< MDL	mg/Kg	1	0.005	0.001	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/Kg	1	0.005	0.001	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/Kg	1	0.005	0.001	
1,1-Dichloroethane	75-34-3	< MDL	mg/Kg	1	0.005	0.001	
1,1-Dichloroethylene	75-35-4	< MDL	mg/Kg	1	0.005	0.002	
1,1-Dichloropropene	563-58-6	< MDL	mg/Kg	1	0.005	0.001	
1,2,3-trichlorobenzene	87-61-6	< MDL	mg/Kg	1	0.005	0.002	
1,2,3-Trichloropropane	96-18-4	< MDL	mg/Kg	1	0.005	0.001	
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/Kg	1	0.005	0.001	
1,2,4-Trimethylbenzene	95-63-6	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dibromo-3-chloropropa	96-12-8	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dibromoethane	106-93-4	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichloroethane	107-06-2	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichloropropane	78-87-5	< MDL	mg/Kg	1	0.005	0.001	
1,3,5-Trimethylbenzene	108-67-8	< MDL	mg/Kg	1	0.005	0.001	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/Kg	1	0.005	0.001	
1,3-Dichloropropane	142-28-9	< MDL	mg/Kg	1	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/Kg	1	0.005	0.001	
1,4-Dioxane	123-91-1	< MDL	mg/Kg	1	0.32	0.075	
2,2-Dichloropropane	594-20-7	< MDL	mg/Kg	1	0.005	0.001	
2-Chlorotoluene	95-49-8	< MDL	mg/Kg	1	0.005	0.001	
4-Chlorotoluene	106-43-4	< MDL	mg/Kg	1	0.005	0.001	
4-Isopropyltoluene	99-87-6	< MDL	mg/Kg	1	0.005	0.001	
Benzene	71-43-2	< MDL	mg/Kg	1	0.005	0.001	
Bromobenzene	108-86-1	< MDL	mg/Kg	1	0.005	0.001	
Bromochloromethane	74-97-5	< MDL	mg/Kg	1	0.005	0.001	
Bromodichloromethane	75-27-4	< MDL	mg/Kg	1	0.005	0.001	
Bromoform	75-25-2	< MDL	mg/Kg	1	0.005	0.0005	
Bromomethane	74-83-9	< MDL	mg/Kg	1	0.005	0.001	
Carbon disulfide	75-15-0	< MDL	mg/Kg	1	0.005	0.002	
Carbon tetrachloride	56-23-5	< MDL	mg/Kg	1	0.005	0.001	
Chlorobenzene	108-90-7	< MDL	mg/Kg	1	0.005	0.001	
Chloroethane	75-00-3	< MDL	mg/Kg	1	0.005	0.003	
Chloroform	67-66-3	< MDL	mg/Kg	1	0.005	0.001	
Chloromethane	74-87-3	< MDL	mg/Kg	1	0.005	0.001	
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/Kg	1	0.005	0.001	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17021722

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/Kg	1	0.005	0.0004	
Dibromochloromethane	124-48-1	< MDL	mg/Kg	1	0.005	0.001	
Dibromomethane	74-95-3	< MDL	mg/Kg	1	0.005	0.001	
Dichlorodifluoromethane	75-71-8	< MDL	mg/Kg	1	0.005	0.002	
Ethylbenzene	100-41-4	< MDL	mg/Kg	1	0.005	0.001	
Isopropylbenzene	98-82-8	< MDL	mg/Kg	1	0.005	0.001	
m- & p-Xylenes	108-38-3&106-42-3	< MDL	mg/Kg	1	0.01	0.001	
MEK	78-93-3	< MDL	mg/Kg	1	0.005	0.002	
Methylene chloride	75-09-2	< MDL	mg/Kg	1	0.005	0.001	
Naphthalene	91-20-3	< MDL	mg/Kg	1	0.005	0.0004	
n-Butylbenzene	104-51-8	< MDL	mg/Kg	1	0.005	0.001	
n-Propylbenzene	103-65-1	< MDL	mg/Kg	1	0.005	0.001	
o-Xylene	95-47-6	< MDL	mg/Kg	1	0.005	0.001	
sec-Butylbenzene	135-98-8	< MDL	mg/Kg	1	0.005	0.001	
Styrene	100-42-5	< MDL	mg/Kg	1	0.005	0.001	
t-butylbenzene	98-06-6	< MDL	mg/Kg	1	0.005	0.001	
Tetrachloroethylene	127-18-4	< MDL	mg/Kg	1	0.005	0.001	
Toluene	108-88-3	< MDL	mg/Kg	1	0.005	0.001	
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/Kg	1	0.005	0.001	
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/Kg	1	0.005	0.0004	
Trichloroethylene	79-01-6	< MDL	mg/Kg	1	0.005	0.001	
Trichlorofluoromethane	75-69-4	< MDL	mg/Kg	1	0.005	0.001	
Vinyl Chloride	75-01-4	< MDL	mg/Kg	1	0.005	0.001	
Xylenes	1330-20-7	< MDL	mg/Kg	1	0.005	0.001	
Dibromofluoromethane(surr)	1868-53-7	102	%	1			
1,2-Dichloroethane-d4(surr)	17060-07-0	104	%	1			
Toluene-d8(surr)	2037-26-5	101	%	1			
p-Bromofluorobenzene(surr)	460-00-4	105	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.019	95	0.02	0.018	90	5.4	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.02	100	0.02	0.02	100	0	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.02	100	0.02	0.02	100	0	30	72.8-125	
1,1-Dichloroethane	0.02	0.02	100	0.02	0.019	95	5.1	30	72.7-129	
1,1-Dichloroethylene	0.02	0.021	105	0.02	0.02	100	4.9	30	71.4-131	
1,1-Dichloropropene	0.02	0.02	100	0.02	0.019	95	5.1	30	75.9-132	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17021722

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,3-trichlorobenzene	0.02	0.019	95	0.02	0.02	100	5.1	30	56.7-153	
1,2,3-Trichloropropane	0.02	0.021	105	0.02	0.021	105	0	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.018	90	0.02	0.019	95	5.4	30	55.9-150	
1,2,4-Trimethylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.02	100	0.02	0.02	100	0	30	52.4-150	
1,2-Dibromoethane	0.02	0.021	105	0.02	0.02	100	4.9	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	76.1-126	
1,2-Dichloroethane	0.02	0.021	105	0.02	0.02	100	4.9	30	66.4-134	
1,2-Dichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.02	100	0.02	0.019	95	5.1	30	73.9-126	
1,3-Dichloropropane	0.02	0.021	105	0.02	0.02	100	4.9	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.019	95	0.02	0.019	95	0	30	72.3-127	
1,4-Dioxane	0.64	0.748	117	0.64	0.72	113	3.8	30	80-120	
2,2-Dichloropropane	0.02	0.017	85	0.02	0.016	80	6.1	30	68.5-138	
2-Chlorotoluene	0.02	0.02	100	0.02	0.02	100	0	30	71.7-128	
4-Chlorotoluene	0.02	0.02	100	0.02	0.02	100	0	30	72.2-126	
4-Isopropyltoluene	0.02	0.02	100	0.02	0.02	100	0	30	77.5-125	
Benzene	0.02	0.021	105	0.02	0.02	100	4.9	30	74-126	
Bromobenzene	0.02	0.019	95	0.02	0.019	95	0	30	73.3-129	
Bromochloromethane	0.02	0.021	105	0.02	0.02	100	4.9	30	68.8-131	
Bromodichloromethane	0.02	0.02	100	0.02	0.019	95	5.1	30	69-135	
Bromoform	0.02	0.019	95	0.02	0.019	95	0	30	62-146	
Bromomethane	0.02	0.021	105	0.02	0.02	100	4.9	30	58.7-139	
Carbon disulfide	0.02	0.021	105	0.02	0.02	100	4.9	30	80-120	
Carbon tetrachloride	0.02	0.019	95	0.02	0.017	85	11.1	30	68.7-135	
Chlorobenzene	0.02	0.02	100	0.02	0.02	100	0	30	73.3-129	
Chloroethane	0.02	0.022	110	0.02	0.02	100	9.5	30	66.2-129	
Chloroform	0.02	0.02	100	0.02	0.019	95	5.1	30	73.7-134	
Chloromethane	0.02	0.021	105	0.02	0.02	100	4.9	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.02	100	0	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	67.7-134	
Dibromochloromethane	0.02	0.019	95	0.02	0.018	90	5.4	30	73.2-126	
Dibromomethane	0.02	0.021	105	0.02	0.02	100	4.9	30	69.9-134	
Dichlorodifluoromethane	0.02	0.02	100	0.02	0.019	95	5.1	30	36.8-144	
Ethylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	72.2-128	
Isopropylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	71.2-131	
m- & p-Xylenes	0.04	0.041	103	0.04	0.04	100	2.5	30	70.7-131	
MEK	0.02	0.02	100	0.02	0.02	100	0	30	52.5-152	
Methylene chloride	0.02	0.018	90	0.02	0.018	90	0	30	70.6-129	
Naphthalene	0.02	0.02	100	0.02	0.021	105	4.9	30	60.7-145	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17021722

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
n-Butylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	66.5-136	
n-Propylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	73.3-126	
o-Xylene	0.02	0.021	105	0.02	0.02	100	4.9	30	71.6-130	
sec-Butylbenzene	0.02	0.02	100	0.02	0.02	100	0	30	77.9-124	
Styrene	0.02	0.02	100	0.02	0.02	100	0	30	71.1-131	
t-butylbenzene	0.02	0.02	100	0.02	0.019	95	5.1	30	74.4-130	
Tetrachloroethylene	0.02	0.021	105	0.02	0.02	100	4.9	30	62.6-157	
Toluene	0.02	0.021	105	0.02	0.02	100	4.9	30	73.3-127	
trans-1,2-Dichloroethylene	0.02	0.02	100	0.02	0.019	95	5.1	30	80-120	
trans-1,3-Dichloropropene	0.02	0.019	95	0.02	0.018	90	5.4	30	71.5-124	
Trichloroethylene	0.02	0.019	95	0.02	0.018	90	5.4	30	69.2-133	
Trichlorofluoromethane	0.02	0.017	85	0.02	0.016	80	6.1	30	63.9-140	
Vinyl Chloride	0.02	0.02	100	0.02	0.019	95	5.1	30	40.9-159	
Xylenes	0.06	0.062	103	0.06	0.06	100	3.3	30	69.2-133	

QC Type: MS and MSD

QC Sample ID: 17020731.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	71.4-131	
1,1,1-Trichloroethane	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	69.6-140	
1,1,2,2-Tetrachloroethane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	66.6-128	
1,1,2-Trichloroethane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	72.8-125	
1,1-Dichloroethane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	72.7-129	
1,1-Dichloroethylene	BRL	0.019	0.017	89.5	0.02	0.018	90	5.7	35	71.4-131	
1,1-Dichloropropene	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	75.9-132	
1,2,3-trichlorobenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	56.7-153	
1,2,3-Trichloropropane	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	61.6-138	
1,2,4-Trichlorobenzene	BRL	0.019	0.017	89.5	0.02	0.018	90	5.7	35	55.9-150	
1,2,4-Trimethylbenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	71.1-131	
1,2-Dibromo-3-chloropropa	BRL	0.019	0.018	94.7	0.02	0.02	100	10.5	35	52.4-150	
1,2-Dibromoethane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	72.9-125	
1,2-Dichlorobenzene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	76.1-126	
1,2-Dichloroethane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	66.4-134	
1,2-Dichloropropane	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	70.2-128	
1,3,5-Trimethylbenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	75.1-127	
1,3-Dichlorobenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	73.9-126	
1,3-Dichloropropane	BRL	0.019	0.02	105	0.02	0.02	100	0	35	68.3-124	
1,4-Dichlorobenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	72.3-127	
1,4-Dioxane	BRL	0.64	0.802	125	0.64	0.811	127	1.1	35	70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17021722

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: MS and MSD

QC Sample ID: 17020731.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,2-Dichloropropane	BRL	0.019	0.014	73.7	0.02	0.015	75	6.9	35	68.5-138	
2-Chlorotoluene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	71.7-128	
4-Chlorotoluene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	72.2-126	
4-Isopropyltoluene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	77.5-125	
Benzene	BRL	0.019	0.02	105	0.02	0.02	100	0	35	74-126	
Bromobenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	73.3-129	
Bromochloromethane	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	68.8-131	
Bromodichloromethane	BRL	0.019	0.019	100	0.02	0.019	95	0	35	69-135	
Bromoform	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	62-146	
Bromomethane	BRL	0.019	0.0099	52.1	0.02	0.0098	49	1	35	58.7-139	M9
Carbon disulfide	BRL	0.019	0.017	89.5	0.02	0.017	85	0	35	70-130	
Carbon tetrachloride	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	68.7-135	
Chlorobenzene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	73.3-129	
Chloroethane	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	66.2-129	
Chloroform	0.008	0.019	0.047	205	0.02	0.028	100	64.1	35	73.7-134	M8,R1
Chloromethane	BRL	0.019	0.033	174	0.02	0.029	145	12.9	35	51.4-135	M8
cis-1,2-Dichloroethylene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	72.4-132	
cis-1,3-Dichloropropene	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	67.7-134	
Dibromochloromethane	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	73.2-126	
Dibromomethane	BRL	0.019	0.019	100	0.02	0.019	95	0	35	69.9-134	
Dichlorodifluoromethane	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	36.8-144	
Ethylbenzene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	72.2-128	
Isopropylbenzene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	71.2-131	
m- & p-Xylenes	BRL	0.038	0.049	129	0.039	0.044	113	10.8	35	70.7-131	
MEK	BRL	0.019	0.017	89.5	0.02	0.018	90	5.7	35	52.5-152	
Methylene chloride	BRL	0.019	0.022	116	0.02	0.022	110	0	35	70.6-129	
Naphthalene	BRL	0.019	0.02	105	0.02	0.021	105	4.9	35	60.7-145	
n-Butylbenzene	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	66.5-136	
n-Propylbenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	73.3-126	
o-Xylene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	71.6-130	
sec-Butylbenzene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	77.9-124	
Styrene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	71.1-131	
t-butylbenzene	BRL	0.019	0.018	94.7	0.02	0.02	100	10.5	35	74.4-130	
Tetrachloroethylene	BRL	0.019	0.019	100	0.02	0.02	100	5.1	35	62.6-157	
Toluene	BRL	0.019	0.02	105	0.02	0.02	100	0	35	73.3-127	
trans-1,2-Dichloroethylene	BRL	0.019	0.019	100	0.02	0.019	95	0	35	70-130	
trans-1,3-Dichloropropene	BRL	0.019	0.017	89.5	0.02	0.018	90	5.7	35	71.5-124	
Trichloroethylene	BRL	0.019	0.018	94.7	0.02	0.019	95	5.4	35	69.2-133	
Trichlorofluoromethane	BRL	0.019	0.0084	44.2	0.02	0.0092	46	9.1	35	63.9-140	M9
Vinyl Chloride	BRL	0.019	0.018	94.7	0.02	0.018	90	0	35	40.9-159	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb17021722 **Created Date :** 02/16/17 **Created By :** Jdongre

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: MS and MSD

QC Sample ID: 17020731.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Xylenes	BRL	0.058	0.068	117	0.059	0.064	108	6.1	35	69.2-133	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Recoverable Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID : Qb17021761 **Created Date :** 02/17/17 **Created By :** BRena

Samples in This QC Batch : 17020774.02,04,06,08

Digestion : PB17021739 **Prep Method :** SW-846 3050B **Prep Date :** 02/17/17 10:30 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Arsenic	7440-38-2	< MDL	mg/Kg	1	0.5	0.1		
Barium	7440-39-3	< MDL	mg/Kg	1	0.5	0.1		
Cadmium	7440-43-9	< MDL	mg/Kg	1	0.5	0.04		
Chromium	7440-47-3	< MDL	mg/Kg	1	0.5	0.1		
Lead	7439-92-1	< MDL	mg/Kg	1	0.5	0.1		
Selenium	7782-49-2	< MDL	mg/Kg	1	0.5	0.1		
Silver	7440-22-4	< MDL	mg/Kg	1	0.5	0.02		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	23.905	95.6	25	24.154	96.6	1	20	80-120	
Barium	25	24.665	98.7	25	24.959	99.8	1.2	20	80-120	
Cadmium	25	24.540	98.2	25	24.501	98	0.2	20	80-120	
Chromium	25	24.793	99.2	25	24.812	99.2	0.1	20	80-120	
Lead	25	24.230	96.9	25	24.368	97.5	0.6	20	80-120	
Selenium	25	21.971	87.9	25	22.142	88.6	0.8	20	80-120	
Silver	25	24.613	98.5	25	24.623	98.5	0.0	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17020774.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	4.293	25	20.376	64.3						70-130	M2
Barium	89.917	25	89.331	-2.34400						70-130	M2
Cadmium	0.173	25	16.195	64.1						70-130	M2
Chromium	6.622	25	22.876	65						70-130	M2
Lead	9.497	25	21.347	47.4						70-130	M2
Selenium	BRL	25	8.534	34.1						70-130	M2
Silver	0.688	25	17.108	65.7						70-130	M2

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Recoverable Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID : Qb17021764 **Created Date :** 02/17/17 **Created By :** BRena

Samples in This QC Batch : 17020774.10,12,14,15,16,18

Digestion : PB17021744 **Prep Method :** SW-846 3050B **Prep Date :** 02/16/17 10:40 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Arsenic	7440-38-2	< MDL	mg/Kg	1	0.5	0.1		
Barium	7440-39-3	< MDL	mg/Kg	1	0.5	0.1		
Cadmium	7440-43-9	< MDL	mg/Kg	1	0.5	0.04		
Chromium	7440-47-3	< MDL	mg/Kg	1	0.5	0.1		
Lead	7439-92-1	< MDL	mg/Kg	1	0.5	0.1		
Selenium	7782-49-2	< MDL	mg/Kg	1	0.5	0.1		
Silver	7440-22-4	< MDL	mg/Kg	1	0.5	0.02		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	22.782	91.1	25	22.805	91.2	0.1	20	80-120	
Barium	25	24.638	98.6	25	24.562	98.2	0.3	20	80-120	
Cadmium	25	23.618	94.5	25	23.526	94.1	0.4	20	80-120	
Chromium	25	24.375	97.5	25	24.300	97.2	0.3	20	80-120	
Lead	25	23.427	93.7	25	23.555	94.2	0.5	20	80-120	
Selenium	25	20.388	81.6	25	20.403	81.6	0.1	20	80-120	
Silver	25	23.890	95.6	25	23.842	95.4	0.2	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17020774.10

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	1.968	25	19.748	71.1						70-130	
Barium	4.784	25	86.955	329						70-130	M1
Cadmium	BRL	25	18.256	72.8						70-130	
Chromium	3.988	25	21.466	69.9						70-130	M2
Lead	1.715	25	17.741	64.1						70-130	M2
Selenium	BRL	25	11.946	47.8						70-130	M2
Silver	0.178	25	19.076	75.6						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Metals - Mercury **Method :** SW-846 7470A **Reporting Units :** mg/L

QC Batch ID : Qb17022013 **Created Date :** 02/20/17 **Created By :** csmith

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

Digestion : PB17022013 **Prep Method :** SW-846 7470A **Prep Date :** 02/20/17 08:45 **Prep By :** JYou

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Mercury	7439-97-6	< MDL	mg/L	1	0.0002	0.00006	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.00501	100	0.005	0.00524	105	4.5	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17020774.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.00534	107						75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Recoverable Metals **Method :** SW-846 6010C **Reporting Units :** mg/L

QC Batch ID : Qb17022033 **Created Date :** 02/20/17 **Created By :** BRena

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

Digestion : PB17022030 **Prep Method :** SW-846 3010A **Prep Date :** 02/17/17 11:00 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Arsenic	7440-38-2	< MDL	mg/L	1	0.02	0.004		
Barium	7440-39-3	< MDL	mg/L	1	0.02	0.004		
Cadmium	7440-43-9	< MDL	mg/L	1	0.02	0.002		
Chromium	7440-47-3	< MDL	mg/L	1	0.02	0.004		
Lead	7439-92-1	< MDL	mg/L	1	0.02	0.004		
Selenium	7782-49-2	< MDL	mg/L	1	0.02	0.004		
Silver	7440-22-4	< MDL	mg/L	1	0.02	0.001		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	1	0.932	93.2	1	0.943	94.3	1.2	20	80-120	
Barium	1	1.013	101	1	1.016	102	0.3	20	80-120	
Cadmium	1	0.954	95.4	1	0.961	96.1	0.7	20	80-120	
Chromium	1	0.984	98.4	1	0.986	98.6	0.2	20	80-120	
Lead	1	0.954	95.4	1	0.957	95.7	0.3	20	80-120	
Selenium	1	0.884	88.4	1	0.894	89.4	1.1	20	80-120	
Silver	1	0.951	95.1	1	0.955	95.5	0.4	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17020774.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	1	0.915	91.5						75-125	
Barium	0.056	1	1.013	95.7						75-125	
Cadmium	BRL	1	0.916	91.5						75-125	
Chromium	BRL	1	0.930	92.9						75-125	
Lead	BRL	1	0.903	90.1						75-125	
Selenium	0.006	1	0.858	85.2						75-125	
Silver	BRL	1	0.941	94.1						75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/L

QC Batch ID : Qb17022067 **Created Date :** 02/16/17 **Created By :** AVBembde

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

Sample Preparation : PB17022061 **Prep Method :** TX 1005 **Prep Date :** 02/16/17 16:00 **Prep By :** VNair

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1	1.5	0.66	
>C12-C28	TPH-1005-2	< MDL	mg/L	1	1.5	0.86	
>C28-C35	TPH-1005-4	< MDL	mg/L	1	1.5	0.75	
Total C6-C35		< MDL	mg/L	1	----		
1-Chlorooctane(surr)	111-85-3	105.5	%	1			
Chlorooctadecane(surr)	3386-33-2	104.7	%	1			

QC Type: Duplicate

QC Sample ID: 17020879.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	0.291	0.834	mg/L	96.5	30	R1
>C28-C35	BRL	BRL	mg/L		30	
C6-C12	1.190	0.883	mg/L	29.6	30	
Total C6-C35	1.481	1.717	mg/L	14.8	30	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	30	28.1	93.7	30	31.3	104	10.8	20	75-125	
>C12-C28	30	32.5	108	30	34.7	116	6.6	20	75-125	
>C28-C35	30	29.4	98	30	37.4	125	24	20	75-125	R1

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/L

QC Batch ID : Qb17022134 **Created Date :** 02/16/17 **Created By :** Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

Sample Preparation : PB17022123 **Prep Method :** SW-846 5030C **Prep Date :** 02/16/17 09:00 **Prep By :** Jdongre

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1,2-Tetrachloroethane	630-20-6	< MDL	mg/L	1	0.005	0.001	
1,1,1-Trichloroethane	71-55-6	< MDL	mg/L	1	0.005	0.001	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/L	1	0.005	0.001	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloroethane	75-34-3	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloroethylene	75-35-4	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloropropene	563-58-6	< MDL	mg/L	1	0.005	0.001	
1,2,3-trichlorobenzene	87-61-6	< MDL	mg/L	1	0.005	0.001	
1,2,3-Trichloropropane	96-18-4	< MDL	mg/L	1	0.005	0.001	
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1	0.005	0.001	
1,2,4-Trimethylbenzene	95-63-6	< MDL	mg/L	1	0.005	0.001	
1,2-Dibromo-3-chloropropa	96-12-8	< MDL	mg/L	1	0.005	0.001	
1,2-Dibromoethane	106-93-4	< MDL	mg/L	1	0.005	0.001	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1	0.005	0.001	
1,2-Dichloroethane	107-06-2	< MDL	mg/L	1	0.005	0.001	
1,2-Dichloropropane	78-87-5	< MDL	mg/L	1	0.005	0.001	
1,3,5-Trimethylbenzene	108-67-8	< MDL	mg/L	1	0.005	0.001	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1	0.005	0.001	
1,3-Dichloropropane	142-28-9	< MDL	mg/L	1	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1	0.005	0.001	
1,4-Dioxane	123-91-1	< MDL	mg/L	1	0.32	0.084	
2,2-Dichloropropane	594-20-7	< MDL	mg/L	1	0.005	0.001	
2-Chlorotoluene	95-49-8	< MDL	mg/L	1	0.005	0.001	
4-Chlorotoluene	106-43-4	< MDL	mg/L	1	0.005	0.001	
4-Isopropyltoluene	99-87-6	< MDL	mg/L	1	0.005	0.003	
Benzene	71-43-2	< MDL	mg/L	1	0.005	0.001	
Bromobenzene	108-86-1	< MDL	mg/L	1	0.005	0.001	
Bromochloromethane	74-97-5	< MDL	mg/L	1	0.005	0.001	
Bromodichloromethane	75-27-4	< MDL	mg/L	1	0.005	0.001	
Bromoform	75-25-2	< MDL	mg/L	1	0.005	0.001	
Bromomethane	74-83-9	< MDL	mg/L	1	0.005	0.002	
Carbon disulfide	75-15-0	< MDL	mg/L	1	0.005	0.001	
Carbon tetrachloride	56-23-5	< MDL	mg/L	1	0.005	0.001	
Chlorobenzene	108-90-7	< MDL	mg/L	1	0.005	0.001	
Chloroethane	75-00-3	< MDL	mg/L	1	0.005	0.001	
Chloroform	67-66-3	< MDL	mg/L	1	0.005	0.001	
Chloromethane	74-87-3	< MDL	mg/L	1	0.005	0.001	
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/L	1	0.005	0.001	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022134

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/L	1	0.005	0.001	
Dibromochloromethane	124-48-1	< MDL	mg/L	1	0.005	0.001	
Dibromomethane	74-95-3	< MDL	mg/L	1	0.005	0.001	
Dichlorodifluoromethane	75-71-8	< MDL	mg/L	1	0.005	0.003	
Ethylbenzene	100-41-4	< MDL	mg/L	1	0.005	0.001	
Isopropylbenzene	98-82-8	< MDL	mg/L	1	0.005	0.001	
m- & p-Xylenes	108-38-3&106-42-3	< MDL	mg/L	1	0.01	0.002	
MEK	78-93-3	< MDL	mg/L	1	0.005	0.001	
Methylene chloride	75-09-2	< MDL	mg/L	1	0.005	0.001	
Naphthalene	91-20-3	< MDL	mg/L	1	0.005	0.002	
n-Butylbenzene	104-51-8	< MDL	mg/L	1	0.005	0.001	
n-Propylbenzene	103-65-1	< MDL	mg/L	1	0.005	0.001	
o-Xylene	95-47-6	< MDL	mg/L	1	0.005	0.001	
sec-Butylbenzene	135-98-8	< MDL	mg/L	1	0.005	0.001	
Styrene	100-42-5	< MDL	mg/L	1	0.005	0.001	
t-butylbenzene	98-06-6	< MDL	mg/L	1	0.005	0.001	
Tetrachloroethylene	127-18-4	< MDL	mg/L	1	0.005	0.001	
Toluene	108-88-3	< MDL	mg/L	1	0.005	0.001	
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/L	1	0.005	0.001	
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/L	1	0.005	0.001	
Trichloroethylene	79-01-6	< MDL	mg/L	1	0.005	0.001	
Trichlorofluoromethane	75-69-4	< MDL	mg/L	1	0.005	0.001	
Vinyl Chloride	75-01-4	< MDL	mg/L	1	0.005	0.001	
Xylenes	1330-20-7	< MDL	mg/L	1	0.015	0.002	
Dibromofluoromethane(surr)	1868-53-7	116	%	1			
1,2-Dichloroethane-d4(surr)	17060-07-0	107	%	1			
Toluene-d8(surr)	2037-26-5	106	%	1			
p-Bromofluorobenzene(surr)	460-00-4	105	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0.0	12	82.6-121	
1,1,1-Trichloroethane	0.02	0.019	95	0.02	0.02	100	5.1	13	82.8-123	
1,1,2,2-Tetrachloroethane	0.02	0.018	90	0.02	0.019	95	5.4	20	77.5-122	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.02	100	5.1	14	81.1-119	
1,1-Dichloroethane	0.02	0.017	85	0.02	0.018	90	5.7	12	74.5-125	
1,1-Dichloroethylene	0.02	0.018	90	0.02	0.021	105	15.4	12	75.4-124	
1,1-Dichloropropene	0.02	0.02	100	0.02	0.022	110	9.5	12	76.9-125	R4

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022134

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,3-trichlorobenzene	0.02	0.02	100	0.02	0.02	100	0.0	20	70.8-125	
1,2,3-Trichloropropane	0.02	0.018	90	0.02	0.02	100	10.5	22	69.6-126	
1,2,4-Trichlorobenzene	0.02	0.021	105	0.02	0.019	95	10	16	74.8-121	
1,2,4-Trimethylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	12	80.4-114	
1,2-Dibromo-3-chloropropa	0.02	0.018	90	0.02	0.018	90	0.0	27	61.7-140	
1,2-Dibromoethane	0.02	0.019	95	0.02	0.019	95	0.0	15	80.6-118	
1,2-Dichlorobenzene	0.02	0.019	95	0.02	0.019	95	0.0	11	82.6-113	
1,2-Dichloroethane	0.02	0.019	95	0.02	0.02	100	5.1	14	72.8-126	
1,2-Dichloropropane	0.02	0.02	100	0.02	0.02	100	0.0	13	82.4-120	
1,3,5-Trimethylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	10	81.3-114	
1,3-Dichlorobenzene	0.02	0.02	100	0.02	0.02	100	0.0	11	83.4-113	
1,3-Dichloropropane	0.02	0.019	95	0.02	0.019	95	0.0	16	79.8-115	
1,4-Dichlorobenzene	0.02	0.019	95	0.02	0.019	95	0.0	11	82.6-113	
1,4-Dioxane	0.64	0.56	87.5	0.64	0.646	101	14.3	30	70-130	
2,2-Dichloropropane	0.02	0.018	90	0.02	0.02	100	10.5	15	69.4-131	
2-Chlorotoluene	0.02	0.02	100	0.02	0.021	105	4.9	17	77.8-118	
4-Chlorotoluene	0.02	0.021	105	0.02	0.021	105	0.0	15	78.8-117	
4-Isopropyltoluene	0.02	0.022	110	0.02	0.021	105	4.7	11	80.9-114	
Benzene	0.02	0.02	100	0.02	0.02	100	0.0	11	84.1-118	
Bromobenzene	0.02	0.02	100	0.02	0.02	100	0.0	12	82.8-116	
Bromochloromethane	0.02	0.018	90	0.02	0.017	85	5.7	15	70.7-131	
Bromodichloromethane	0.02	0.019	95	0.02	0.02	100	5.1	12	83.1-119	
Bromoform	0.02	0.018	90	0.02	0.019	95	5.4	20	70.3-136	
Bromomethane	0.02	0.018	90	0.02	0.02	100	10.5	23	59-134	
Carbon disulfide	0.02	0.019	95	0.02	0.02	100	5.1	30	70-130	
Carbon tetrachloride	0.02	0.02	100	0.02	0.021	105	4.9	13	74.6-129	
Chlorobenzene	0.02	0.02	100	0.02	0.02	100	0.0	11	87.8-110	
Chloroethane	0.02	0.017	85	0.02	0.021	105	21.1	13	73.7-124	R4
Chloroform	0.02	0.019	95	0.02	0.019	95	0.0	10	76.4-124	
Chloromethane	0.02	0.018	90	0.02	0.022	110	20	15	59.4-138	R4
cis-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.021	105	10	15	74.3-124	
cis-1,3-Dichloropropene	0.02	0.019	95	0.02	0.02	100	5.1	11	84.6-117	
Dibromochloromethane	0.02	0.019	95	0.02	0.019	95	0.0	13	80.3-122	
Dibromomethane	0.02	0.019	95	0.02	0.018	90	5.4	16	75.8-126	
Dichlorodifluoromethane	0.02	0.019	95	0.02	0.02	100	5.1	15	44.4-149	
Ethylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	12	82.8-114	
Isopropylbenzene	0.02	0.021	105	0.02	0.022	110	4.7	11	86.8-113	
m- & p-Xylenes	0.04	0.042	105	0.04	0.042	105	0.0	10	76.9-122	
MEK	0.02	0.017	85	0.02	0.019	95	11.1	42	44.9-154	
Methylene chloride	0.02	0.02	100	0.02	0.021	105	4.9	13	67.3-130	
Naphthalene	0.02	0.018	90	0.02	0.02	100	10.5	27	55.8-136	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022134

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
n-Butylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	20	74.1-120	
n-Propylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	12	78.9-115	
o-Xylene	0.02	0.021	105	0.02	0.021	105	0.0	11	86-111	
sec-Butylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	12	80.2-115	
Styrene	0.02	0.021	105	0.02	0.02	100	4.9	12	86.7-111	
t-butylbenzene	0.02	0.021	105	0.02	0.021	105	0.0	14	80.7-116	
Tetrachloroethylene	0.02	0.021	105	0.02	0.022	110	4.7	27	64.2-140	
Toluene	0.02	0.02	100	0.02	0.021	105	4.9	12	85.9-110	
trans-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.02	100	5.1	12	73.7-124	
trans-1,3-Dichloropropene	0.02	0.019	95	0.02	0.019	95	0.0	14	83-114	
Trichloroethylene	0.02	0.021	105	0.02	0.021	105	0.0	12	85.4-114	
Trichlorofluoromethane	0.02	0.02	100	0.02	0.02	100	0.0	12	74.3-126	
Vinyl Chloride	0.02	0.02	100	0.02	0.02	100	0.0	17	61.8-142	
Xylenes	0.06	0.063	105	0.06	0.063	105	0.0	9	81.2-117	

QC Type: MS and MSD

QC Sample ID: 17020774.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	72-139	
1,1,1-Trichloroethane	BRL	0.02	0.017	85	0.02	0.019	95	11.1	35	70.6-135	
1,1,2,2-Tetrachloroethane	BRL	0.02	0.02	100	0.02	0.021	105	4.9	35	55-149	
1,1,2-Trichloroethane	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	68-139	
1,1-Dichloroethane	BRL	0.02	0.016	80	0.02	0.019	95	17.1	35	78-134	
1,1-Dichloroethylene	BRL	0.02	0.016	80	0.02	0.02	100	22.2	35	65-141	
1,1-Dichloropropene	BRL	0.02	0.017	85	0.02	0.02	100	16.2	35	79-136	
1,2,3-trichlorobenzene	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	54-144	
1,2,3-Trichloropropane	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	58-156	
1,2,4-Trichlorobenzene	BRL	0.02	0.019	95	0.02	0.019	95	0.0	35	69-127	
1,2,4-Trimethylbenzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	80-131	
1,2-Dibromo-3-chloropropa	BRL	0.02	0.021	105	0.02	0.021	105	0.0	35	61-145	
1,2-Dibromoethane	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	68-140	
1,2-Dichlorobenzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	70-138	
1,2-Dichloroethane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	67-152	
1,2-Dichloropropane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	79-135	
1,3,5-Trimethylbenzene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	79-133	
1,3-Dichlorobenzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	79-128	
1,3-Dichloropropane	BRL	0.02	0.019	95	0.02	0.021	105	10	35	70-147	
1,4-Dichlorobenzene	BRL	0.02	0.018	90	0.02	0.019	95	5.4	35	76-127	
1,4-Dioxane	BRL	0.64	0.652	102	0.64	0.624	97.5	4.4	35	70-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022134

Created Date : 02/16/17

Created By : Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: MS and MSD

QC Sample ID: 17020774.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,2-Dichloropropane	BRL	0.02	0.015	75	0.02	0.017	85	12.5	35	60-129	M9
2-Chlorotoluene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	83-130	
4-Chlorotoluene	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	82-129	
4-Isopropyltoluene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	78-129	
Benzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	73-129	
Bromobenzene	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	76-132	
Bromochloromethane	BRL	0.02	0.014	70	0.02	0.016	80	13.3	35	76-135	
Bromodichloromethane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	80-136	
Bromoform	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	65-139	
Bromomethane	BRL	0.02	0.02	100	0.02	0.021	105	4.9	35	65-150	
Carbon disulfide	BRL	0.02	0.016	80	0.02	0.019	95	17.1	35	70-125	
Carbon tetrachloride	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	70-136	
Chlorobenzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	69-123	
Chloroethane	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	74-145	
Chloroform	BRL	0.02	0.015	75	0.02	0.018	90	18.2	35	41.8-164	
Chloromethane	BRL	0.02	0.016	80	0.02	0.019	95	17.1	35	42.2-160	
cis-1,2-Dichloroethylene	BRL	0.02	0.018	90	0.02	0.019	95	5.4	35	71-134	
cis-1,3-Dichloropropene	BRL	0.02	0.016	80	0.02	0.017	85	6.1	35	74-128	
Dibromochloromethane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	67-141	
Dibromomethane	BRL	0.02	0.02	100	0.02	0.019	95	5.1	35	63.1-135	
Dichlorodifluoromethane	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	62-146	
Ethylbenzene	BRL	0.02	0.017	85	0.02	0.02	100	16.2	35	80-132	
Isopropylbenzene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	78-137	
m- & p-Xylenes	BRL	0.04	0.036	90	0.04	0.041	103	13	35	74-127	
MEK	BRL	0.02	0.019	95	0.02	0.02	100	5.1	35	52-148	
Methylene chloride	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	68-131	
Naphthalene	BRL	0.02	0.02	100	0.02	0.021	105	4.9	35	61-116	
n-Butylbenzene	BRL	0.02	0.017	85	0.02	0.02	100	16.2	35	73-140	
n-Propylbenzene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	75-127	
o-Xylene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	74-126	
sec-Butylbenzene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	75-129	
Styrene	BRL	0.02	0.019	95	0.02	0.021	105	10	35	77-123	
t-butylbenzene	BRL	0.02	0.018	90	0.02	0.021	105	15.4	35	75-126	
Tetrachloroethylene	BRL	0.02	0.016	80	0.02	0.02	100	22.2	35	27.6-194	
Toluene	BRL	0.02	0.017	85	0.02	0.02	100	16.2	35	72-121	
trans-1,2-Dichloroethylene	BRL	0.02	0.016	80	0.02	0.018	90	11.8	35	73-138	
trans-1,3-Dichloropropene	BRL	0.02	0.017	85	0.02	0.019	95	11.1	35	66-131	
Trichloroethylene	BRL	0.02	0.018	90	0.02	0.02	100	10.5	35	6-138	
Trichlorofluoromethane	BRL	0.02	0.017	85	0.02	0.02	100	16.2	35	67-148	
Vinyl Chloride	BRL	0.02	0.019	95	0.02	0.022	110	14.6	35	59.4-140	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/L

QC Batch ID : Qb17022134 **Created Date :** 02/16/17 **Created By :** Jdongre

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: MS and MSD

QC Sample ID: 17020774.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Xylenes	BRL	0.06	0.054	90	0.06	0.062	103	13.8	35	73-127	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17022145 **Created Date :** 02/21/17 **Created By :** Psaraiya

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

Extraction : PB17021668 **Prep Method :** SW-846 3546 **Prep Date :** 02/16/17 11:00 **Prep By :** CMPolnick

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/Kg	1	0.333	0.16	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/Kg	1	0.333	0.11	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/Kg	1	0.333	0.09	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/Kg	1	0.333	0.09	
2,4,5-Trichlorophenol	95-95-4	< MDL	mg/Kg	1	0.333	0.13	
2,4,6-Trichlorophenol	88-06-2	< MDL	mg/Kg	1	0.333	0.16	
2,4-Dichlorophenol	120-83-2	< MDL	mg/Kg	1	0.333	0.12	
2,4-Dimethylphenol	105-67-9	< MDL	mg/Kg	1	0.333	0.09	
2,4-Dinitrophenol	51-28-5	< MDL	mg/Kg	1	0.333	0.12	
2,4-Dinitrotoluene	121-14-2	< MDL	mg/Kg	1	0.333	0.009	
2,6-Dinitrotoluene	606-20-2	< MDL	mg/Kg	1	0.333	0.11	
2-Chloronaphthalene	91-58-7	< MDL	mg/Kg	1	0.333	0.13	
2-Chlorophenol	95-57-8	< MDL	mg/Kg	1	0.333	0.10	
2-Methylnaphthalene	91-57-6	< MDL	mg/Kg	1	0.333	0.30	
2-Methylphenol	95-48-7	< MDL	mg/Kg	1	0.333	0.09	
2-Nitrophenol	88-75-5	< MDL	mg/Kg	1	0.333	0.09	
3- & 4-Methylphenols	108-39-4 & 106-44-5	< MDL	mg/Kg	1	0.667	0.13	
4,6-Dinitro-2-methylphenol	534-52-1	< MDL	mg/Kg	1	0.333	0.16	
4-Bromophenyl phenyl ethe	101-55-3	< MDL	mg/Kg	1	0.333	0.16	
4-Chloro-3-methylphenol	59-50-7	< MDL	mg/Kg	1	0.333	0.14	
4-Chlorophenyl phenyl ethe	7005-72-3	< MDL	mg/Kg	1	0.333	0.11	
4-Nitrophenol	100-02-7	< MDL	mg/Kg	1	0.333	0.13	
Acenaphthene	83-32-9	< MDL	mg/Kg	1	0.333	0.15	
Acenaphthylene	208-96-8	< MDL	mg/Kg	1	0.333	0.10	
Anthracene	120-12-7	< MDL	mg/Kg	1	0.333	0.10	
Benzo(a)anthracene	56-55-3	< MDL	mg/Kg	1	0.333	0.10	
Benzo(a)pyrene	50-32-8	< MDL	mg/Kg	1	0.333	0.30	
Benzo(b)fluoranthene	205-99-2	< MDL	mg/Kg	1	0.333	0.30	
Benzo(g,h,i)perylene	191-24-2	< MDL	mg/Kg	1	0.333	0.40	
Benzo(k)fluoranthene	207-08-9	< MDL	mg/Kg	1	0.333	0.15	
Bis(2-chloroethoxy) methan	111-91-1	< MDL	mg/Kg	1	0.333	0.10	
Bis(2-chloroethyl) ether	111-44-4	< MDL	mg/Kg	1	0.333	0.30	
Bis(2-chloroisopropyl) ether	108-60-1	< MDL	mg/Kg	1	0.333	0.12	
Bis(2-ethylhexyl)phthalate	117-81-7	< MDL	mg/Kg	1	0.333	0.13	
Butyl benzyl phthalate	85-68-7	< MDL	mg/Kg	1	0.333	0.11	
Chrysene	218-01-9	< MDL	mg/Kg	1	0.333	0.10	
Dibenzo(a,h)anthracene	53-70-3	< MDL	mg/Kg	1	0.333	0.13	
Dibenzofuran	132-64-9	< MDL	mg/Kg	1	0.333	0.11	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17022145 **Created Date :** 02/21/17 **Created By :** Psaraiya

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Diethyl phthalate	84-66-2	< MDL	mg/Kg	1	0.333	0.14		
Dimethyl phthalate	131-11-3	< MDL	mg/Kg	1	0.333	0.11		
Di-n-butyl phthalate	84-74-2	< MDL	mg/Kg	1	0.333	0.16		
Di-n-octyl Phthalate	117-84-0	< MDL	mg/Kg	1	0.333	0.09		
Fluoranthene	206-44-0	< MDL	mg/Kg	1	0.333	0.17		
Fluorene	86-73-7	< MDL	mg/Kg	1	0.333	0.16		
Hexachlorobenzene	118-74-1	< MDL	mg/Kg	1	0.333	0.010		
Hexachlorobutadiene	87-68-3	< MDL	mg/Kg	1	0.333	0.10		
Hexachlorocyclopentadiene	77-47-4	< MDL	mg/Kg	1	0.333	0.12		
Hexachloroethane	67-72-1	< MDL	mg/Kg	1	0.333	0.10		
Indeno(1,2,3-cd)pyrene	193-39-5	< MDL	mg/Kg	1	0.333	0.20		
Isophorone	78-59-1	< MDL	mg/Kg	1	0.333	0.13		
Naphthalene	91-20-3	< MDL	mg/Kg	1	0.333	0.10		
Nitrobenzene	98-95-3	< MDL	mg/Kg	1	0.333	0.12		
N-Nitrosodimethylamine	62-75-9	< MDL	mg/Kg	1	0.333	0.09		
N-nitroso-di-n-propylamine	621-64-7	< MDL	mg/Kg	1	0.333	0.10		
Pentachlorophenol	87-86-5	< MDL	mg/Kg	1	0.333	0.14		
Phenanthrene	85-01-8	< MDL	mg/Kg	1	0.333	0.20		
Phenol	108-95-2	< MDL	mg/Kg	1	0.333	0.11		
Pyrene	129-00-0	< MDL	mg/Kg	1	0.333	0.18		
Pyridine	110-86-1	< MDL	mg/Kg	1	0.333	0.12		
2-Fluorophenol(surr)	367-12-4	63.4	%	1				
Phenol-d6(surr)	13127-88-3	63.3	%	1				
Nitrobenzene-d5(surr)	4165-60-0	60.9	%	1				
2-Fluorobiphenyl(surr)	132-60-8	55.3	%	1				
2,4,6-Tribromophenol(surr)	118-79-6	76.1	%	1				
p-Terphenyl-d14(surr)	1718-51-0	49.2	%	1				

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,4-Trichlorobenzene	1.67	1.32	79	1.67	1.37	82	3.7	35	32-126	
1,2-Dichlorobenzene	1.67	1.2	71.9	1.67	1.29	77.2	7.2	35	34-118	
1,3-Dichlorobenzene	1.67	1.19	71.3	1.67	1.24	74.3	4.1	35	34-118	
1,4-Dichlorobenzene	1.67	1.29	77.2	1.67	1.33	79.6	3	35	35-115	
2,4,5-Trichlorophenol	1.67	1.58	94.6	1.67	1.7	102	7.3	35	35-124	
2,4,6-Trichlorophenol	1.67	1.59	95.2	1.67	1.67	100	4.9	35	35-123	
2,4-Dichlorophenol	1.67	1.67	100	1.67	1.77	106	5.8	35	31-124	
2,4-Dimethylphenol	1.67	1.56	93.4	1.67	1.67	100	6.8	35	29-129	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17022145 **Created Date :** 02/21/17 **Created By :** Psaraiya

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4-Dinitrophenol	1.67	1.19	71.3	1.67	1.29	77.2	8.1	35	D-94	
2,4-Dinitrotoluene	1.67	1.37	82	1.67	1.55	92.8	12.3	35	42-134	
2,6-Dinitrotoluene	1.67	1.5	89.8	1.67	1.68	101	11.3	35	37-128	
2-Chloronaphthalene	1.67	1.16	69.5	1.67	1.3	77.8	11.4	35	37-124	
2-Chlorophenol	1.67	1.4	83.8	1.67	1.51	90.4	7.6	35	26-119	
2-Methylnaphthalene	1.67	1.33	79.6	1.67	1.41	84.4	5.8	35	28-128	
2-Methylphenol	1.67	1.4	83.8	1.67	1.5	89.8	6.9	35	26-125	
2-Nitrophenol	1.67	1.4	83.8	1.67	1.35	80.8	3.6	35	25-123	
3- & 4-Methylphenols	3.33	2.7	81.1	3.33	2.92	87.7	7.8	35	29-118	
4,6-Dinitro-2-methylphenol	1.67	1.68	101	1.67	1.79	107	6.3	35	8-129	
4-Bromophenyl phenyl ethe	1.67	1.37	82	1.67	0.076	4.55	179	35	50-122	L1
4-Chloro-3-methylphenol	1.67	1.8	108	1.67	1.89	113	4.9	35	40-127	
4-Chlorophenyl phenyl ethe	1.67	1.44	86.2	1.67	1.57	94	8.6	35	47-125	
4-Nitrophenol	1.67	1.78	107	1.67	1.95	117	9.1	35	14-138	
Acenaphthene	1.67	1.36	81.4	1.67	1.45	86.8	6.4	35	45-125	
Acenaphthylene	1.67	1.49	89.2	1.67	1.58	94.6	5.9	35	43-118	
Anthracene	1.67	1.44	86.2	1.67	1.55	92.8	7.4	35	53-119	
Benzo(a)anthracene	1.67	1.32	79	1.67	1.48	88.6	11.4	35	43-131	
Benzo(a)pyrene	1.67	1.28	76.6	1.67	1.5	89.8	15.8	35	43-126	
Benzo(b)fluoranthene	1.67	1.04	62.3	1.67	1.22	73.1	15.9	35	36-126	
Benzo(g,h,i)perylene	1.67	3.43	205	1.67	4.14	248	18.8	35	27-126	L1
Benzo(k)fluoranthene	1.67	0.998	59.8	1.67	1.17	70.1	15.9	35	36-134	
Bis(2-chloroethoxy) methan	1.67	1.24	74.3	1.67	1.36	81.4	9.2	35	33-125	
Bis(2-chloroethyl) ether	1.67	1.11	66.5	1.67	1.22	73.1	9.4	35	30-125	
Bis(2-chloroisopropyl) ether	1.67	1.04	62.3	1.67	1.05	62.9	1	35	27-122	
Bis(2-ethylhexyl)phthalate	1.67	1.54	92.2	1.67	1.7	102	9.9	35	8-158	
Butyl benzyl phthalate	1.67	1.32	79	1.67	1.48	88.6	11.4	35	50-139	
Chrysene	1.67	1.32	79	1.67	1.46	87.4	10.1	35	42-131	
Dibenzo(a,h)anthracene	1.67	2.88	172	1.67	3.49	209	19.2	35	33-122	L1
Dibenzofuran	1.67	1.36	81.4	1.67	1.44	86.2	5.7	35	22-122	
Diethyl phthalate	1.67	1.51	90.4	1.67	1.65	98.8	8.9	35	48-126	
Dimethyl phthalate	1.67	1.48	88.6	1.67	1.56	93.4	5.3	35	48-122	
Di-n-butyl phthalate	1.67	1.6	95.8	1.67	1.75	105	9	35	51-126	
Di-n-octyl Phthalate	1.67	2.14	128	1.67	2.46	147	13.9	35	50-124	L1
Fluoranthene	1.67	1.51	90.4	1.67	1.65	98.8	8.9	35	51-125	
Fluorene	1.67	1.45	86.8	1.67	1.54	92.2	6	35	48-123	
Hexachlorobenzene	1.67	1.41	84.4	1.67	1.58	94.6	11.4	35	35-130	
Hexachlorobutadiene	1.67	1.2	71.9	1.67	1.27	76	5.7	35	31-115	
Hexachlorocyclopentadiene	1.67	1.31	78.4	1.67	1.3	77.8	0.8	35	D-116	
Hexachloroethane	1.67	1.19	71.3	1.67	1.35	80.8	12.6	35	36-114	
Indeno(1,2,3-cd)pyrene	1.67	3.43	205	1.67	3.79	227	10	35	31-135	L1

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/Kg

QC Batch ID : Qb17022145

Created Date : 02/21/17

Created By : Psaraiya

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Isophorone	1.67	1.25	74.9	1.67	1.33	79.6	6.2	35	30-126	L1
Naphthalene	1.67	1.28	76.6	1.67	1.38	82.6	7.5	35	32-124	
Nitrobenzene	1.67	1.36	81.4	1.67	1.41	84.4	3.6	35	29-126	
N-Nitrosodimethylamine	1.67	1.09	65.3	1.67	1.13	67.7	3.6	35	21-121	
N-nitroso-di-n-propylamine	1.67	1.29	77.2	1.67	1.46	87.4	12.4	35	30-128	
Pentachlorophenol	1.67	1.87	112	1.67	1.98	119	5.7	35	36-117	
Phenanthrene	1.67	1.42	85	1.67	1.51	90.4	6.1	35	45-125	
Phenol	1.67	1.44	86.2	1.67	1.53	91.6	6.1	35	22-118	
Pyrene	1.67	1.17	70.1	1.67	1.28	76.6	9	35	32-138	
Pyridine	1.67	0.822	49.2	1.67	0.873	52.3	6	35	D-110	

QC Type: MS and MSD

QC Sample ID: 17020774.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,4-Trichlorobenzene	BRL	1.67	1.29	77.2						32-126	
1,2-Dichlorobenzene	BRL	1.67	1.21	72.5						34-118	
1,3-Dichlorobenzene	BRL	1.67	1.24	74.3						34-118	
1,4-Dichlorobenzene	BRL	1.67	1.26	75.4						35-115	
2,4,5-Trichlorophenol	BRL	1.67	1.7	102						35-124	
2,4,6-Trichlorophenol	BRL	1.67	1.78	107						35-123	
2,4-Dichlorophenol	BRL	1.67	1.68	101						31-124	
2,4-Dimethylphenol	BRL	1.67	1.62	97						29-129	
2,4-Dinitrophenol	BRL	1.67	0.208	12.5						D-94	
2,4-Dinitrotoluene	BRL	1.67	1.44	86.2						42-134	
2,6-Dinitrotoluene	BRL	1.67	1.48	88.6						37-128	
2-Chloronaphthalene	BRL	1.67	1.26	75.4						37-124	
2-Chlorophenol	BRL	1.67	1.45	86.8						26-119	
2-Methylnaphthalene	BRL	1.67	1.32	79						28-128	
2-Methylphenol	BRL	1.67	1.27	76						26-125	
2-Nitrophenol	BRL	1.67	1.4	83.8						25-123	
3- & 4-Methylphenols	BRL	3.33	2.56	76.9						29-118	
4,6-Dinitro-2-methylphenol	BRL	1.67	1.32	79						8-129	
4-Bromophenyl phenyl ethe	BRL	1.67	1.62	97						50-122	
4-Chloro-3-methylphenol	BRL	1.67	1.8	108						40-127	
4-Chlorophenyl phenyl ethe	BRL	1.67	1.43	85.6						47-125	
4-Nitrophenol	BRL	1.67	2.03	122						14-138	
Acenaphthene	BRL	1.67	1.41	84.4						45-125	
Acenaphthylene	BRL	1.67	1.59	95.2						43-118	
Anthracene	BRL	1.67	1.46	87.4						53-119	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/Kg

QC Batch ID : Qb17022145

Created Date : 02/21/17

Created By : Psaraiya

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: MS and MSD

QC Sample ID: 17020774.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzo(a)anthracene	BRL	1.67	1.46	87.4						43-131	M1
Benzo(a)pyrene	BRL	1.67	1.43	85.6						43-126	
Benzo(b)fluoranthene	BRL	1.67	1.17	70.1						36-126	
Benzo(g,h,i)perylene	BRL	1.67	3.3	198						27-126	
Benzo(k)fluoranthene	BRL	1.67	1.12	67.1						36-134	
Bis(2-chloroethoxy) methan	BRL	1.67	1.27	76						33-125	
Bis(2-chloroethyl) ether	BRL	1.67	1.18	70.7						30-125	
Bis(2-chloroisopropyl) ether	BRL	1.67	0.991	59.3						27-122	
Bis(2-ethylhexyl)phthalate	BRL	1.67	1.76	105						8-158	
Butyl benzyl phthalate	BRL	1.67	1.55	92.8						50-139	
Chrysene	BRL	1.67	1.44	86.2						42-131	M1
Dibenzo(a,h)anthracene	BRL	1.67	2.99	179						33-122	
Dibenzofuran	BRL	1.67	1.42	85						22-122	
Diethyl phthalate	BRL	1.67	1.69	101						48-126	
Dimethyl phthalate	BRL	1.67	1.59	95.2						48-122	
Di-n-butyl phthalate	BRL	1.67	1.72	103						51-126	
Di-n-octyl Phthalate	BRL	1.67	2.41	144						50-124	
Fluoranthene	BRL	1.67	1.65	98.8						51-125	
Fluorene	BRL	1.67	1.53	91.6						48-123	
Hexachlorobenzene	BRL	1.67	1.48	88.6						35-130	
Hexachlorobutadiene	BRL	1.67	1.38	82.6						31-115	M1
Hexachlorocyclopentadiene	BRL	1.67	1.62	97						D-116	
Hexachloroethane	BRL	1.67	1.18	70.7						36-114	
Indeno(1,2,3-cd)pyrene	BRL	1.67	3.51	210						31-135	
Isophorone	BRL	1.67	1.3	77.8						30-126	
Naphthalene	BRL	1.67	1.31	78.4						32-124	
Nitrobenzene	BRL	1.67	1.31	78.4						29-126	
N-Nitrosodimethylamine	BRL	1.67	0.966	57.8						21-121	
N-nitroso-di-n-propylamine	BRL	1.67	1.37	82						30-128	
Pentachlorophenol	BRL	1.67	1.86	111						36-117	
Phenanthrene	BRL	1.67	1.49	89.2						45-125	M1
Phenol	BRL	1.67	1.37	82						22-118	
Pyrene	BRL	1.67	1.27	76						32-138	
Pyridine	BRL	1.67	0.619	37.1						D-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/L

QC Batch ID : Qb17022205 **Created Date :** 02/22/17 **Created By :** Psaraiya

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

Extraction : PB17021719 **Prep Method :** SW-846 3510C **Prep Date :** 02/17/17 11:00 **Prep By :** CMPolnick

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1	0.01	0.002	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1	0.01	0.003	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1	0.01	0.002	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1	0.01	0.003	
2,4,5-Trichlorophenol	95-95-4	< MDL	mg/L	1	0.01	0.005	
2,4,6-Trichlorophenol	88-06-2	< MDL	mg/L	1	0.01	0.007	
2,4-Dichlorophenol	120-83-2	< MDL	mg/L	1	0.01	0.005	
2,4-Dimethylphenol	105-67-9	< MDL	mg/L	1	0.01	0.006	
2,4-Dinitrophenol	51-28-5	< MDL	mg/L	1	0.01	0.007	
2,4-Dinitrotoluene	121-14-2	< MDL	mg/L	1	0.01	0.006	
2,6-Dinitrotoluene	606-20-2	< MDL	mg/L	1	0.01	0.006	
2-Chloronaphthalene	91-58-7	< MDL	mg/L	1	0.01	0.005	
2-Chlorophenol	95-57-8	< MDL	mg/L	1	0.01	0.005	
2-Methylnaphthalene	91-57-6	< MDL	mg/L	1	0.01	0.004	
2-Methylphenol	95-48-7	< MDL	mg/L	1	0.01	0.005	
2-Nitrophenol	88-75-5	< MDL	mg/L	1	0.01	0.007	
3- & 4-Methylphenols	108-39-4 & 106-44-5	< MDL	mg/L	1	0.02	0.005	
4,6-Dinitro-2-methylphenol	534-52-1	< MDL	mg/L	1	0.01	0.006	
4-Bromophenyl phenyl ethe	101-55-3	< MDL	mg/L	1	0.01	0.006	
4-Chloro-3-methylphenol	59-50-7	< MDL	mg/L	1	0.01	0.004	
4-Chlorophenyl phenyl ethe	7005-72-3	< MDL	mg/L	1	0.01	0.006	
4-Nitrophenol	100-02-7	< MDL	mg/L	1	0.01	0.004	
Acenaphthene	83-32-9	< MDL	mg/L	1	0.01	0.005	
Acenaphthylene	208-96-8	< MDL	mg/L	1	0.01	0.004	
Anthracene	120-12-7	< MDL	mg/L	1	0.01	0.005	
Benzo(a)anthracene	56-55-3	< MDL	mg/L	1	0.01	0.004	
Benzo(a)pyrene	50-32-8	< MDL	mg/L	1	0.01	0.004	
Benzo(b)fluoranthene	205-99-2	< MDL	mg/L	1	0.01	0.004	
Benzo(g,h,i)perylene	191-24-2	< MDL	mg/L	1	0.01	0.005	
Benzo(k)fluoranthene	207-08-9	< MDL	mg/L	1	0.01	0.003	
Bis(2-chloroethoxy) methan	111-91-1	< MDL	mg/L	1	0.01	0.005	
Bis(2-chloroethyl) ether	111-44-4	< MDL	mg/L	1	0.01	0.003	
Bis(2-chloroisopropyl) ether	108-60-1	< MDL	mg/L	1	0.01	0.003	
Bis(2-ethylhexyl)phthalate	117-81-7	< MDL	mg/L	1	0.01	0.008	
Butyl benzyl phthalate	85-68-7	< MDL	mg/L	1	0.01	0.005	
Chrysene	218-01-9	< MDL	mg/L	1	0.01	0.002	
Dibenzo(a,h)anthracene	53-70-3	< MDL	mg/L	1	0.01	0.005	
Dibenzofuran	132-64-9	< MDL	mg/L	1	0.01	0.003	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb17022205

Created Date : 02/22/17

Created By : Psaraiya

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Diethyl phthalate	84-66-2	< MDL	mg/L	1	0.01	0.004	
Dimethyl phthalate	131-11-3	< MDL	mg/L	1	0.01	0.003	
Di-n-butyl phthalate	84-74-2	< MDL	mg/L	1	0.01	0.002	
Di-n-octyl Phthalate	117-84-0	< MDL	mg/L	1	0.01	0.005	
Fluoranthene	206-44-0	< MDL	mg/L	1	0.01	0.004	
Fluorene	86-73-7	< MDL	mg/L	1	0.01	0.006	
Hexachlorobenzene	118-74-1	< MDL	mg/L	1	0.01	0.005	
Hexachlorobutadiene	87-68-3	< MDL	mg/L	1	0.01	0.003	
Hexachlorocyclopentadiene	77-47-4	< MDL	mg/L	1	0.01	0.003	
Hexachloroethane	67-72-1	< MDL	mg/L	1	0.01	0.003	
Indeno(1,2,3-cd)pyrene	193-39-5	< MDL	mg/L	1	0.01	0.005	
Isophorone	78-59-1	< MDL	mg/L	1	0.01	0.006	
Naphthalene	91-20-3	< MDL	mg/L	1	0.01	0.004	
Nitrobenzene	98-95-3	< MDL	mg/L	1	0.01	0.003	
N-Nitrosodimethylamine	62-75-9	< MDL	mg/L	1	0.01	0.003	
N-nitroso-di-n-propylamine	621-64-7	< MDL	mg/L	1	0.01	0.003	
Pentachlorophenol	87-86-5	< MDL	mg/L	1	0.01	0.005	
Phenanthrene	85-01-8	< MDL	mg/L	1	0.01	0.003	
Phenol	108-95-2	< MDL	mg/L	1	0.01	0.003	
Pyrene	129-00-0	< MDL	mg/L	1	0.01	0.006	
Pyridine	110-86-1	< MDL	mg/L	1	0.01	0.015	
2-Fluorophenol(surr)	367-12-4	60.3	%	1			
Phenol-d6(surr)	13127-88-3	51.1	%	1			
Nitrobenzene-d5(surr)	4165-60-0	66.3	%	1			
2-Fluorobiphenyl(surr)	132-60-8	68	%	1			
2,4,6-Tribromophenol(surr)	118-79-6	85.7	%	1			
p-Terphenyl-d14(surr)	1718-51-0	72.3	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,4-Trichlorobenzene	0.05	0.041	82	0.05	0.039	78	5	35	6-126	
1,2-Dichlorobenzene	0.05	0.035	70	0.05	0.031	62	12.1	35	18-102	
1,3-Dichlorobenzene	0.05	0.033	66	0.05	0.029	58	12.9	35	18-100	
1,4-Dichlorobenzene	0.05	0.034	68	0.05	0.03	60	12.5	35	14-109	
2,4,5-Trichlorophenol	0.05	0.046	92	0.05	0.046	92	0.0	35	16-124	
2,4,6-Trichlorophenol	0.05	0.054	108	0.05	0.048	96	11.8	35	19-120	
2,4-Dichlorophenol	0.05	0.052	104	0.05	0.051	102	1.9	35	9-121	
2,4-Dimethylphenol	0.05	0.046	92	0.05	0.047	94	2.2	35	D-121	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb17022205

Created Date : 02/22/17

Created By : Psaraiya

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4-Dinitrophenol	0.05	0.041	82	0.05	0.04	80	2.5	35	20-110	R1
2,4-Dinitrotoluene	0.05	0.049	98	0.05	0.047	94	4.2	35	18-137	
2,6-Dinitrotoluene	0.05	0.049	98	0.05	0.044	88	10.8	35	26-122	
2-Chloronaphthalene	0.05	0.042	84	0.05	0.04	80	4.9	35	19-118	
2-Chlorophenol	0.05	0.046	92	0.05	0.046	92	0.0	35	18-102	
2-Methylnaphthalene	0.05	0.04	80	0.05	0.042	84	4.9	35	7-124	
2-Methylphenol	0.05	0.043	86	0.05	0.038	76	12.3	35	26-114	
2-Nitrophenol	0.05	0.045	90	0.05	0.047	94	4.4	35	16-109	
3- & 4-Methylphenols	0.1	0.077	77	0.1	0.074	74	4	35	8-104	
4,6-Dinitro-2-methylphenol	0.05	0.054	108	0.05	0.05	100	7.7	35	8-124	
4-Bromophenyl phenyl ethe	0.05	0.048	96	0.05	0.045	90	6.5	35	33-113	
4-Chloro-3-methylphenol	0.05	0.053	106	0.05	0.054	108	1.9	35	17-122	
4-Chlorophenyl phenyl ethe	0.05	0.045	90	0.05	0.041	82	9.3	35	27-120	
4-Nitrophenol	0.05	0.052	104	0.05	0.036	72	36.4	35	D-112	
Acenaphthene	0.05	0.046	92	0.05	0.041	82	11.5	35	23-131	
Acenaphthylene	0.05	0.053	106	0.05	0.046	92	14.1	35	24-117	
Anthracene	0.05	0.046	92	0.05	0.046	92	0.0	35	32-118	
Benzo(a)anthracene	0.05	0.046	92	0.05	0.043	86	6.7	35	36-115	
Benzo(a)pyrene	0.05	0.045	90	0.05	0.041	82	9.3	35	28-116	
Benzo(b)fluoranthene	0.05	0.037	74	0.05	0.036	72	2.7	35	27-121	
Benzo(g,h,i)perylene	0.05	0.056	112	0.05	0.057	114	1.8	35	18-123	
Benzo(k)fluoranthene	0.05	0.034	68	0.05	0.035	70	2.9	35	21-122	
Bis(2-chloroethoxy) methan	0.05	0.038	76	0.05	0.042	84	10	35	20-107	
Bis(2-chloroethyl) ether	0.05	0.039	78	0.05	0.036	72	8	35	23-95	
Bis(2-chloroisopropyl) ether	0.05	0.029	58	0.05	0.026	52	10.9	35	17-104	
Bis(2-ethylhexyl)phthalate	0.05	0.044	88	0.05	0.041	82	7.1	35	9-133	
Butyl benzyl phthalate	0.05	0.044	88	0.05	0.041	82	7.1	35	14-135	
Chrysene	0.05	0.046	92	0.05	0.041	82	11.5	35	36-117	
Dibenzo(a,h)anthracene	0.05	0.05	100	0.05	0.048	96	4.1	35	26-118	
Dibenzofuran	0.05	0.044	88	0.05	0.041	82	7.1	35	22-122	
Diethyl phthalate	0.05	0.046	92	0.05	0.045	90	2.2	35	25-128	
Dimethyl phthalate	0.05	0.05	100	0.05	0.043	86	15.1	35	27-122	
Di-n-butyl phthalate	0.05	0.044	88	0.05	0.045	90	2.3	35	25-128	
Di-n-octyl Phthalate	0.05	0.053	106	0.05	0.049	98	7.8	35	18-128	
Fluoranthene	0.05	0.044	88	0.05	0.046	92	4.4	35	27-131	
Fluorene	0.05	0.046	92	0.05	0.043	86	6.7	35	26-126	
Hexachlorobenzene	0.05	0.05	100	0.05	0.05	100	0.0	35	30-130	
Hexachlorobutadiene	0.05	0.036	72	0.05	0.038	76	5.4	35	5-115	
Hexachlorocyclopentadiene	0.05	0.088	176	0.05	0.071	142	21.4	35	D-95	
Hexachloroethane	0.05	0.032	64	0.05	0.031	62	3.2	35	14-102	
Indeno(1,2,3-cd)pyrene	0.05	0.056	112	0.05	0.055	110	1.8	35	24-126	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/L

QC Batch ID : Qb17022205 **Created Date :** 02/22/17 **Created By :** Psaraiya

Samples in This QC Batch : 17020774.01,03,05,07,09,11,13,17,19

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Isophorone	0.05	0.041	82	0.05	0.041	82	0.0	35	15-114	
Naphthalene	0.05	0.039	78	0.05	0.041	82	5	35	19-112	
Nitrobenzene	0.05	0.046	92	0.05	0.042	84	9.1	35	20-109	
N-Nitrosodimethylamine	0.05	0.033	66	0.05	0.029	58	12.9	35	5-92	
N-nitroso-di-n-propylamine	0.05	0.042	84	0.05	0.039	78	7.4	35	24-114	
Pentachlorophenol	0.05	0.055	110	0.05	0.053	106	3.7	35	D-128	
Phenanthrene	0.05	0.046	92	0.05	0.045	90	2.2	35	31-119	
Phenol	0.05	0.035	70	0.05	0.033	66	5.9	35	D-111	
Pyrene	0.05	0.044	88	0.05	0.04	80	9.5	35	10-145	
Pyridine	0.05	0.031	62	0.05	0.03	60	3.3	35	D-129	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Total Petroleum Hydrocarbons Method : TX 1005 Reporting Units : mg/Kg

QC Batch ID : Qb17022207 Created Date : 02/15/17 Created By : AVBembde

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

Sample Preparation : PB17022208 Prep Method : TX 1005 Prep Date : 02/15/17 17:00 Prep By : AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/Kg	1	25	23.7	
>C12-C28	TPH-1005-2	< MDL	mg/Kg	1	25	20.3	
>C28-C35	TPH-1005-4	< MDL	mg/Kg	1	25	17.7	
Total C6-C35		< MDL	mg/Kg	1	----		
Chlorooctadecane(surr)	3386-33-2	112	%	1			
1-Chlorooctane(surr)	111-85-3	111	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	495	99	500	517	103	4.4	20	75-125	
>C12-C28	500	519	104	500	464	92.8	11.2	20	75-125	
>C28-C35	500	484	96.8	500	557	111	14	20	75-125	

QC Type: MS and MSD

QC Sample ID: 17020774.10

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	476	95.2	500	481	96.2	1	20	75-125	
>C12-C28	BRL	500	521	104	500	534	107	2.5	20	75-125	
>C28-C35	BRL	500	520	104	500	550	110	5.6	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : % Moisture	Method : SM 2540G	Reporting Units : %
QC Batch ID : Qb17022209	Created Date : 02/22/17	Created By : LEBell
Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15		
Sample Preparation : PB17022209	Prep Method : SM 2540G	Prep Date : 02/22/17 10:24 Prep By : LEBell

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
% Moisture		< MDL	%	1	----		

QC Type: Duplicate						
QC Sample ID: 17020340.04						
Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
% Moisture	13.2	12.9	%	2.3	20	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : % Moisture	Method : SM 2540G	Reporting Units : %
QC Batch ID : Qb17022210	Created Date : 02/22/17	Created By : LEBell
Samples in This QC Batch : 17020774.16,18		
Sample Preparation : PB17022209	Prep Method : SM 2540G	Prep Date : 02/22/17 10:24 Prep By : LEBell

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
% Moisture		< MDL	%	1	----		

QC Type: Duplicate						
QC Sample ID: 17020774.16						
Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
% Moisture	31.9	33.5	%	4.9	20	

QUALITY CONTROL CERTIFICATE



Job ID : 17020774

Date : 2/23/2017

Analysis : Corrosivity, pH **Method :** SW-846 9045D **Reporting Units :** s.u.

QC Batch ID : Qb17022265 **Created Date :** 02/22/17 **Created By :** LEBell

Samples in This QC Batch : 17020774.02,04,06,08,10,12,14,15,16,18

QC Type: Duplicate

QC Sample ID: 17020774.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	8.34	8.32	s.u.	0.2	5	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.02					3.95-4.05	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17020774

Date: 2/23/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

J	Estimation. Below calibration range but above MDL.
L1	Associated LCS and/or LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference.
M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference.
M8	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.
M9	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits.
R1	RPD exceeds control limits."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
R4	LCS/LCSD RPD exceeds control limit. Recovery meets acceptance criteria.
S1	Surrogate recovery is above control limit. Results may be biased high.
S2	Surrogate recovery is below control limit. Results may be biased low.
U	Undetected at SDL (Sample Detection Limit).
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.
V7	CCV recovery is below the control limit for this analyte, however the average %difference for all the analytes meets method criteria.

1. REPORT TO: Company: <u>TSE</u> Address: <u>10103 Fwy D in RD</u> <u>Suite 426 Houston, TX</u> Contact: <u>Glen Lovenski</u> Phone: <u>713-467-2900</u> Fax: <u></u> E-mail: <u>TSE@tsp6mail.com</u>		2. INVOICE TO: Company: <u></u> Address: <u></u> Contact: <u></u> Phone: <u></u> Fax: <u></u> E-mail: <u></u>		3. PO # 3a. A&B Quote # 4. Turnaround Time (Business Days) ☐ 1 Day* ☐ Other: ☐ 2 Days* ☐ 3 Days* *Surcharge applies ☒ 7 Days - Standard																																																																																																																						
5. Project # <u>170209-01B</u>		6. Project Name/Location <u>Sunrise 3502 Bellfort, Houston, TX</u>		7. Reporting Requirement: ☒ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II ☐ PST ☐ MDL ☐ EDD																																																																																																																						
8. Sampler's Name & Company (PLEASE PRINT) <u>Glen Lovenski</u>		9. Sample ID and Description <u>SP SW-6</u> <u>SP SD-6</u> <u>SR SW-7</u> <u>SR SD-7</u> <u>SR SD-8</u> <u>SR SD-9</u> <u>SR SW-9</u> <u>SR SD-10</u> <u>SR SW-10</u>		10. Sampling <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Date</th> <th rowspan="2">Time 24hr</th> <th colspan="7">Matrix</th> </tr> <tr> <th>Comp.</th> <th>Grab</th> <th>Water</th> <th>Soil</th> <th>Sludge</th> <th>Oil</th> <th>Drinking Water</th> <th>Air</th> <th>Other</th> </tr> </thead> <tbody> <tr><td>2-14-17</td><td>15:40</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>15:40</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>16:00</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>16:10</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>16:30</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>16:45</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>16:45</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>17:15</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>"</td><td>17:15</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Date	Time 24hr	Matrix							Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water	Air	Other	2-14-17	15:40	X									"	15:40	X									"	16:00	X									"	16:10	X									"	16:30	X									"	16:45	X									"	16:45	X									"	17:15	X									"	17:15	X								
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242. ANALYSES/METHODS																																																																																																																										



Sample Condition Checklist

A&B JobID : 17020774		Date Received : 02/15/2017		Time Received : 8:06AM	
Client Name : Terrain Solutions, Inc.					
Temperature : 1.3+0.5cf=1.8°C		Sample pH : <2 Metals			
Thermometer ID : 140539631		pH Paper ID : 68918			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other : ☒ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative	X			
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.	X			
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					
Samples 01, 03, 05, 07, 09, 11, 13, 17, and 19 are waters, the rest are soils. Received 6 pre weighed vials and a bulk jar per soil sample (terra core method 5035). 06A 'SPSD-1 2/14/17 @15:00' and 19- 'SRSD-10'. -AR 02.15.2017					

Received by : AHall

Check in by/date : AReyes / 02/15/2017

Laboratory Analysis Report

Job ID : 17021054



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6081, <http://www.ablabs.com>

Client Project Name :

170209-01B / Sunnyside Park, 3502 Belfort Ave, Houston, TX 77051

Report To :	Client Name:	Terrain Solutions, Inc.	Total Number of Pages:	20
	Attn:	Glenn Lowenstein	P.O.#. :	
	Client Address:	10103 Fondren Rd. Ste 426	Date Received :	02/20/2017 11:52
	City, State, Zip:	Houston, Texas, 77096	Sample Collected By :	Pete Bervelleri

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
N-01	2/18/2017 14:30	Air	17021054.01
NW-01	2/18/2017 14:35	Air	17021054.02
S-01	2/18/2017 15:00	Air	17021054.03
SE-01	2/18/2017 15:05	Air	17021054.04

Shantall Carpenter

Released By: Shantall Carpenter

Title: Senior Project Manager

Analyst:

A. Ha

AIHA-LAP, LLC Lab ID: 101470

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

2/24/2017



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.
Project Name: 170209-018 / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Attn : Glenn Lowenstein

Client Sample ID: N-01
Date Collected: 02/18/17
Time Collected: 14:30
Other Information:

Lab Sample ID: 17021054.01
Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	250	< 13.7	< 0.002		02/21/17
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	250	< 15.3	< 0.002		02/21/17
	1,1,2-Trichloroethane	133.41	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,1-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	250	< 14.8	< 0.002	V11	02/21/17
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,2-Dibromoethane	187.87	BRL	0.5	250	< 15.4	< 0.002		02/21/17
	1,2-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,2-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,2-Dichloropropane	112.99	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	250	< 13.9	< 0.002		02/21/17
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,3-Butadiene	54.09	BRL	0.5	250	< 4.4	< 0.002		02/21/17
	1,3-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,4-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	2-Butanone	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	4-Ethyltoluene	120	BRL	2	250	< 39.3	< 0.008		02/21/17
	Acetone	58.08	BRL	0.5	250	< 4.8	< 0.002		02/21/17
	Benzene	78.11	BRL	0.5	250	< 6.4	< 0.002		02/21/17
	Benzyl chloride	126.59	BRL	0.5	250	< 10.4	< 0.002		02/21/17
	Bromodichloromethane	163.83	BRL	0.5	250	< 13.4	< 0.002		02/21/17
	Bromoform	252.75	BRL	0.5	250	< 20.7	< 0.002		02/21/17
	Bromomethane	94.94	BRL	0.5	250	< 7.8	< 0.002	V11	02/21/17
	Carbon disulfide	76.14	BRL	0.5	250	< 6.2	< 0.002		02/21/17
	Carbon tetrachloride	153.82	BRL	0.5	250	< 12.6	< 0.002		02/21/17
	Chlorobenzene	112.56	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	Chloroethane	65.42	BRL	0.5	250	< 5.4	< 0.002	V11	02/21/17
	Chloroform	119.38	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Chloromethane	50.49	BRL	0.5	250	< 4.1	< 0.002		02/21/17
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	cis-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Cyclohexane	84.16	BRL	0.5	250	< 6.9	< 0.002		02/21/17
	Dibromochloromethane	208.29	BRL	0.5	250	< 17.0	< 0.002		02/21/17
	Dichlorodifluoromethane	120	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Ethanol	46.07	BRL	0.5	250	< 3.8	< 0.002	V11	02/21/17
	Ethyl acetate	88.11	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	Ethylbenzene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Hexachlorobutadiene	258	BRL	0.5	250	< 21.1	< 0.002		02/21/17
	Isopropyl Alcohol	60.1	BRL	0.5	250	< 4.9	< 0.002		02/21/17



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.

Attn : Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Client Sample ID: N-01

Lab Sample ID: 17021054.01

Date Collected: 02/18/17

Sample Matrix: Air

Time Collected: 14:30

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	m- & p-Xylenes	106.17	BRL	0.5	250	< 8.7	< 0.002		02/21/17
	Methyl Butyl Ketone	100	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methyl Methacrylate	100.12	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methylene chloride	84.93	BRL	0.5	250	< 6.9	< 0.002		02/21/17
	MIBK	100.16	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	MTBE	88.15	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	n-Heptane	100.21	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	n-Hexane	86.18	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	o-Xylene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Propylene	42	BRL	2	250	< 13.7	< 0.008		02/21/17
	Styrene	104	BRL	1	250	< 17.0	< 0.004		02/21/17
	Tetrachloroethylene	165.83	BRL	0.5	250	< 13.6	< 0.002		02/21/17
	Tetrahydrofuran	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	Toluene	92.14	BRL	1	250	< 15.1	< 0.004		02/21/17
	trans-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Trichloroethylene	131.39	BRL	0.5	250	< 10.7	< 0.002		02/21/17
	Trichlorofluoromethane	137.37	BRL	0.5	250	< 11.2	< 0.002		02/21/17
	Vinyl Acetate	86.09	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	Vinyl Chloride	62.5	BRL	0.5	250	< 5.1	< 0.002		02/21/17
Total [VOC] calculated			BRL			< 3.769	< 0.002		



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Belfort Ave, Houston, TX 77051

Attn : Glenn Lowenstein

Client Sample ID: NW-01
Date Collected: 02/18/17
Time Collected: 14:35
Other Information:

Lab Sample ID: 17021054.02
Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	250	< 10.9	< 0.002		02/22/17
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	250	< 13.7	< 0.002		02/22/17
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	250	< 15.3	< 0.002		02/22/17
	1,1,2-Trichloroethane	133.41	BRL	0.5	250	< 10.9	< 0.002		02/22/17
	1,1-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/22/17
	1,1-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/22/17
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	250	< 14.8	< 0.002	V11	02/22/17
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/22/17
	1,2-Dibromoethane	187.87	BRL	0.5	250	< 15.4	< 0.002		02/22/17
	1,2-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/22/17
	1,2-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/22/17
	1,2-Dichloropropane	112.99	BRL	0.5	250	< 9.2	< 0.002		02/22/17
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	250	< 13.9	< 0.002		02/22/17
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/22/17
	1,3-Butadiene	54.09	BRL	0.5	250	< 4.4	< 0.002		02/22/17
	1,3-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/22/17
	1,4-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/22/17
	2-Butanone	72.11	BRL	0.5	250	< 5.9	< 0.002		02/22/17
	4-Ethyltoluene	120	BRL	2	250	< 39.3	< 0.008		02/22/17
	Acetone	58.08	BRL	0.5	250	< 4.8	< 0.002		02/22/17
	Benzene	78.11	BRL	0.5	250	< 6.4	< 0.002		02/22/17
	Benzyl chloride	126.59	BRL	0.5	250	< 10.4	< 0.002		02/22/17
	Bromodichloromethane	163.83	BRL	0.5	250	< 13.4	< 0.002		02/22/17
	Bromoform	252.75	BRL	0.5	250	< 20.7	< 0.002		02/22/17
	Bromomethane	94.94	BRL	0.5	250	< 7.8	< 0.002	V11	02/22/17
	Carbon disulfide	76.14	BRL	0.5	250	< 6.2	< 0.002		02/22/17
	Carbon tetrachloride	153.82	BRL	0.5	250	< 12.6	< 0.002		02/22/17
	Chlorobenzene	112.56	BRL	0.5	250	< 9.2	< 0.002		02/22/17
	Chloroethane	65.42	BRL	0.5	250	< 5.4	< 0.002	V11	02/22/17
	Chloroform	119.38	BRL	0.5	250	< 9.8	< 0.002		02/22/17
	Chloromethane	50.49	BRL	0.5	250	< 4.1	< 0.002		02/22/17
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/22/17
	cis-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/22/17
	Cyclohexane	84.16	BRL	0.5	250	< 6.9	< 0.002		02/22/17
	Dibromochloromethane	208.29	BRL	0.5	250	< 17.0	< 0.002		02/22/17
	Dichlorodifluoromethane	120	BRL	0.5	250	< 9.8	< 0.002		02/22/17
	Ethanol	46.07	BRL	0.5	250	< 3.8	< 0.002	V11	02/22/17
	Ethyl acetate	88.11	BRL	0.5	250	< 7.2	< 0.002		02/22/17
	Ethylbenzene	106.17	BRL	2	250	< 34.7	< 0.008		02/22/17
	Hexachlorobutadiene	258	BRL	0.5	250	< 21.1	< 0.002		02/22/17
	Isopropyl Alcohol	60.1	BRL	0.5	250	< 4.9	< 0.002		02/22/17



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terraln Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Attn : Glenn Lowenstein

Client Sample ID: NW-01
Date Collected: 02/18/17
Time Collected: 14:35
Other Information:

Lab Sample ID: 17021054.02
Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	m- & p-Xylenes	106.17	BRL	0.5	250	< 8.7	< 0.002		02/22/17
	Methyl Butyl Ketone	100	BRL	0.5	250	< 8.2	< 0.002		02/22/17
	Methyl Methacrylate	100.12	BRL	0.5	250	< 8.2	< 0.002		02/22/17
	Methylene chloride	84.93	4.4	0.5	250	61.1	0.018		02/22/17
	MIBK	100.16	BRL	0.5	250	< 8.2	< 0.002		02/22/17
	MTBE	88.15	BRL	0.5	250	< 7.2	< 0.002		02/22/17
	n-Heptane	100.21	BRL	0.5	250	< 8.2	< 0.002		02/22/17
	n-Hexane	86.18	BRL	0.5	250	< 7.0	< 0.002		02/22/17
	o-Xylene	106.17	BRL	2	250	< 34.7	< 0.008		02/22/17
	Propylene	42	BRL	2	250	< 13.7	< 0.008		02/22/17
	Styrene	104	BRL	1	250	< 17.0	< 0.004		02/22/17
	Tetrachloroethylene	165.83	BRL	0.5	250	< 13.6	< 0.002		02/22/17
	Tetrahydrofuran	72.11	BRL	0.5	250	< 5.9	< 0.002		02/22/17
	Toluene	92.14	BRL	1	250	< 15.1	< 0.004		02/22/17
	trans-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/22/17
	Trichloroethylene	131.39	BRL	0.5	250	< 10.7	< 0.002		02/22/17
	Trichlorofluoromethane	137.37	BRL	0.5	250	< 11.2	< 0.002		02/22/17
	Vinyl Acetate	86.09	BRL	0.5	250	< 7.0	< 0.002		02/22/17
	Vinyl Chloride	62.5	BRL	0.5	250	< 5.1	< 0.002		02/22/17

Total [VOC] calculated

4.40

61.136

0.018



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Attn : Glenn Lowenstein

Client Sample ID: S-01
Date Collected: 02/18/17
Time Collected: 15:00
Other Information:

Lab Sample ID: 17021054.03
Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	250	< 13.7	< 0.002		02/21/17
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	250	< 15.3	< 0.002		02/21/17
	1,1,2-Trichloroethane	133.41	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,1-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	250	< 14.8	< 0.002	V11	02/21/17
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,2-Dibromoethane	187.87	BRL	0.5	250	< 15.4	< 0.002		02/21/17
	1,2-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,2-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,2-Dichloropropane	112.99	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	250	< 13.9	< 0.002		02/21/17
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,3-Butadiene	54.09	BRL	0.5	250	< 4.4	< 0.002		02/21/17
	1,3-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,4-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	2-Butanone	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	4-Ethyltoluene	120	BRL	2	250	< 39.3	< 0.008		02/21/17
	Acetone	58.08	BRL	0.5	250	< 4.8	< 0.002		02/21/17
	Benzene	78.11	BRL	0.5	250	< 6.4	< 0.002		02/21/17
	Benzyl chloride	126.59	BRL	0.5	250	< 10.4	< 0.002		02/21/17
	Bromodichloromethane	163.83	BRL	0.5	250	< 13.4	< 0.002		02/21/17
	Bromoform	252.75	BRL	0.5	250	< 20.7	< 0.002		02/21/17
	Bromomethane	94.94	BRL	0.5	250	< 7.8	< 0.002	V11	02/21/17
	Carbon disulfide	76.14	BRL	0.5	250	< 6.2	< 0.002		02/21/17
	Carbon tetrachloride	153.82	BRL	0.5	250	< 12.6	< 0.002		02/21/17
	Chlorobenzene	112.56	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	Chloroethane	65.42	BRL	0.5	250	< 5.4	< 0.002	V11	02/21/17
	Chloroform	119.38	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Chloromethane	50.49	BRL	0.5	250	< 4.1	< 0.002		02/21/17
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	cis-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Cyclohexane	84.16	BRL	0.5	250	< 6.9	< 0.002		02/21/17
	Dibromochloromethane	208.29	BRL	0.5	250	< 17.0	< 0.002		02/21/17
	Dichlorodifluoromethane	120	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Ethanol	46.07	BRL	0.5	250	< 3.8	< 0.002	V11	02/21/17
	Ethyl acetate	88.11	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	Ethylbenzene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Hexachlorobutadiene	258	BRL	0.5	250	< 21.1	< 0.002		02/21/17
	Isopropyl Alcohol	60.1	BRL	0.5	250	< 4.9	< 0.002		02/21/17



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.

Attn : Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Client Sample ID: S-01

Lab Sample ID: 17021054.03

Date Collected: 02/18/17

Sample Matrix: Air

Time Collected: 15:00

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	m- & p-Xylenes	106.17	BRL	0.5	250	< 8.7	< 0.002		02/21/17
	Methyl Butyl Ketone	100	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methyl Methacrylate	100.12	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methylene chloride	84.93	5.2	0.5	250	72.3	0.021		02/21/17
	MIBK	100.16	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	MTBE	88.15	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	n-Heptane	100.21	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	n-Hexane	86.18	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	o-Xylene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Propylene	42	BRL	2	250	< 13.7	< 0.008		02/21/17
	Styrene	104	BRL	1	250	< 17.0	< 0.004		02/21/17
	Tetrachloroethylene	165.83	BRL	0.5	250	< 13.6	< 0.002		02/21/17
	Tetrahydrofuran	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	Toluene	92.14	BRL	1	250	< 15.1	< 0.004		02/21/17
	trans-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Trichloroethylene	131.39	BRL	0.5	250	< 10.7	< 0.002		02/21/17
	Trichlorofluoromethane	137.37	BRL	0.5	250	< 11.2	< 0.002		02/21/17
	Vinyl Acetate	86.09	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	Vinyl Chloride	62.5	BRL	0.5	250	< 5.1	< 0.002		02/21/17

Total [VOC] calculated

5.20

72.251

0.021



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.
Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Attn : Glenn Lowenstein

Client Sample ID: SE-01
Date Collected: 02/18/17
Time Collected: 15:05
Other Information:

Lab Sample ID: 17021054.04
Sample Matrix: Air

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	1,1,1-Trichloroethane	133.4	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1,2,2-Tetrachloroethane	167.85	BRL	0.5	250	< 13.7	< 0.002		02/21/17
	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	BRL	0.5	250	< 15.3	< 0.002		02/21/17
	1,1,2-Trichloroethane	133.41	BRL	0.5	250	< 10.9	< 0.002		02/21/17
	1,1-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,1-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	1,2,4-Trichlorobenzene	181.45	BRL	0.5	250	< 14.8	< 0.002	V11	02/21/17
	1,2,4-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,2-Dibromoethane	187.87	BRL	0.5	250	< 15.4	< 0.002		02/21/17
	1,2-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,2-Dichloroethane	98.96	BRL	0.5	250	< 8.1	< 0.002		02/21/17
	1,2-Dichloropropane	112.99	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	1,2-Dichlorotetrafluoroethane	170	BRL	0.5	250	< 13.9	< 0.002		02/21/17
	1,3,5-Trimethylbenzene	120.19	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	1,3-Butadiene	54.09	BRL	0.5	250	< 4.4	< 0.002		02/21/17
	1,3-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	1,4-Dichlorobenzene	147.00	BRL	0.5	250	< 12.0	< 0.002		02/21/17
	2-Butanone	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	4-Ethyltoluene	120	BRL	2	250	< 39.3	< 0.008		02/21/17
	Acetone	58.08	BRL	0.5	250	< 4.8	< 0.002		02/21/17
	Benzene	78.11	BRL	0.5	250	< 6.4	< 0.002		02/21/17
	Benzyl chloride	126.59	BRL	0.5	250	< 10.4	< 0.002		02/21/17
	Bromodichloromethane	163.83	BRL	0.5	250	< 13.4	< 0.002		02/21/17
	Bromoform	252.75	BRL	0.5	250	< 20.7	< 0.002		02/21/17
	Bromomethane	94.94	BRL	0.5	250	< 7.8	< 0.002	V11	02/21/17
	Carbon disulfide	76.14	BRL	0.5	250	< 6.2	< 0.002		02/21/17
	Carbon tetrachloride	153.82	BRL	0.5	250	< 12.6	< 0.002		02/21/17
	Chlorobenzene	112.56	BRL	0.5	250	< 9.2	< 0.002		02/21/17
	Chloroethane	65.42	BRL	0.5	250	< 5.4	< 0.002	V11	02/21/17
	Chloroform	119.38	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Chloromethane	50.49	BRL	0.5	250	< 4.1	< 0.002		02/21/17
	cis-1,2-Dichloroethylene	96.94	BRL	0.5	250	< 7.9	< 0.002		02/21/17
	cis-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Cyclohexane	84.16	BRL	0.5	250	< 6.9	< 0.002		02/21/17
	Dibromochloromethane	208.29	BRL	0.5	250	< 17.0	< 0.002		02/21/17
	Dichlorodifluoromethane	120	BRL	0.5	250	< 9.8	< 0.002		02/21/17
	Ethanol	46.07	BRL	0.5	250	< 3.8	< 0.002	V11	02/21/17
	Ethyl acetate	88.11	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	Ethylbenzene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Hexachlorobutadiene	258	BRL	0.5	250	< 21.1	< 0.002		02/21/17
	Isopropyl Alcohol	60.1	BRL	0.5	250	< 4.9	< 0.002		02/21/17



LABORATORY TEST RESULTS

Job ID : 17021054

Date: 2/24/2017

Client Name : Terrain Solutions, Inc.

Attn : Glenn Lowenstein

Project Name: 170209-01B / Sunnyside Park, 3502 Bellfort Ave, Houston, TX 77051

Client Sample ID: SE-01

Lab Sample ID: 17021054.04

Date Collected: 02/18/17

Sample Matrix: Air

Time Collected: 15:05

Other Information:

Test Method	Parameter/Test Description	M.W.	Results(nl)	RptLimit(nl)	InjVol(cc)	ug/M3	ppm	Q	Date/Time
EPA TO-15	Volatile Organic Compounds in Air by GCMS								
	m- & p-Xylenes	106.17	BRL	0.5	250	< 8.7	< 0.002		02/21/17
	Methyl Butyl Ketone	100	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methyl Methacrylate	100.12	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	Methylene chloride	84.93	BRL	0.5	250	< 6.9	< 0.002		02/21/17
	MIBK	100.16	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	MTBE	88.15	BRL	0.5	250	< 7.2	< 0.002		02/21/17
	n-Heptane	100.21	BRL	0.5	250	< 8.2	< 0.002		02/21/17
	n-Hexane	86.18	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	o-Xylene	106.17	BRL	2	250	< 34.7	< 0.008		02/21/17
	Propylene	42	BRL	2	250	< 13.7	< 0.008		02/21/17
	Styrene	104	BRL	1	250	< 17.0	< 0.004		02/21/17
	Tetrachloroethylene	165.83	BRL	0.5	250	< 13.6	< 0.002		02/21/17
	Tetrahydrofuran	72.11	BRL	0.5	250	< 5.9	< 0.002		02/21/17
	Toluene	92.14	BRL	1	250	< 15.1	< 0.004		02/21/17
	trans-1,3-Dichloropropene	110.97	BRL	0.5	250	< 9.1	< 0.002		02/21/17
	Trichloroethylene	131.39	BRL	0.5	250	< 10.7	< 0.002		02/21/17
	Trichlorofluoromethane	137.37	BRL	0.5	250	< 11.2	< 0.002		02/21/17
	Vinyl Acetate	86.09	BRL	0.5	250	< 7.0	< 0.002		02/21/17
	Vinyl Chloride	62.5	BRL	0.5	250	< 5.1	< 0.002		02/21/17
Total [VOC] calculated			BRL			< 0.000	< 0.000		



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: 17021054.01

Analysis Date: 2/21/2017

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: Method Blank

Analysis Date: 2/21/2017

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	ug/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds

**The values are estimated relative to the nearest internal standards and only major peaks are reported



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: 17021054.02

Analysis Date: 2/21/2017

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	ug/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: 17021054.03

Analysis Date: 2/21/2017

Test Method	Parameter/Test Description	CAS#	RT	MW	Reading(nl)**	ppm (v/v)	µg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.



LABORATORY TEST RESULTS

TIC* REPORT

A&B Job Sample ID: 17021054.04

Analysis Date: 2/21/2017

Test Method	Parameter/Test Description	CAS #	RT	MW	Reading(nl)**	ppm (v/v)	mg/m ³	Analyst
TO-15	None							AVB

* TIC: Tentatively identified compounds.

**The values are estimated relative to the nearest internal standards and only major peaks are reported.

QUALITY CONTROL CERTIFICATE



Job ID : 17021054

Date : 2/24/2017

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb17022324 **Created Date :** 02/23/17

Created By : AVBembde

Samples in This QC Batch : 17021054.01,02,03,04

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Dichlorodifluoromethane	75-71-8	BRL	nL	1	0.5	
Chloromethane	74-87-3	BRL	nL	1	0.5	
1,2-Dichlorotetrafluoroethane	76-14-2	BRL	nL	1	0.5	
Vinyl Chloride	75-01-4	BRL	nL	1	0.21	
Bromomethane	74-83-9	BRL	nL	1	0.5	
Chloroethane	75-00-3	BRL	nL	1	0.5	
Trichlorofluoromethane	75-69-4	BRL	nL	1	0.5	
1,1-Dichloroethylene	75-35-4	BRL	nL	1	0.5	
Methylene chloride	75-09-2	BRL	nL	1	0.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	nL	1	0.5	
1,1-Dichloroethane	75-34-3	BRL	nL	1	0.5	
cis-1,2-Dichloroethylene	156-59-2	BRL	nL	1	0.5	
Chloroform	67-66-3	BRL	nL	1	0.5	
1,2-Dichloroethane	107-06-2	BRL	nL	1	0.2	
1,1,1-Trichloroethane	71-55-6	BRL	nL	1	0.5	
Benzene	71-43-2	BRL	nL	1	0.2	
Carbon tetrachloride	56-23-5	BRL	nL	1	0.5	
1,2-Dichloropropane	78-87-5	BRL	nL	1	0.5	
Trichloroethylene	79-01-6	BRL	nL	1	0.5	
cis-1,3-Dichloropropene	10061-01-5	BRL	nL	1	0.5	
trans-1,3-Dichloropropene	10061-02-6	BRL	nL	1	0.5	
1,1,2-Trichloroethane	79-00-5	BRL	nL	1	0.5	
Toluene	108-88-3	BRL	nL	1	0.5	
1,2-Dibromoethane	106-93-4	BRL	nL	1	0.5	
Tetrachloroethylene	127-18-4	BRL	nL	1	0.5	
Chlorobenzene	108-90-7	BRL	nL	1	0.5	
Ethylbenzene	100-41-4	BRL	nL	1	0.5	
m- & p-Xylenes	108-38-3&106-42-3	BRL	nL	1	0.5	
Styrene	100-42-5	BRL	nL	1	1	
o-Xylene	95-47-6	BRL	nL	1	0.5	
1,1,2,2-Tetrachloroethane	79-34-5	BRL	nL	1	0.5	
1,3,5-Trimethylbenzene	108-67-8	BRL	nL	1	0.5	
1,2,4-Trimethylbenzene	95-63-6	BRL	nL	1	0.5	
1,3-Dichlorobenzene	541-73-1	BRL	nL	1	0.5	
1,4-Dichlorobenzene	106-46-7	BRL	nL	1	0.5	
1,2-Dichlorobenzene	95-50-1	BRL	nL	1	0.5	
1,2,4-Trichlorobenzene	120-82-1	BRL	nL	1	0.5	
Hexachlorobutadiene	87-68-3	BRL	nL	1	0.5	
1,3-Butadiene	106-99-0	BRL	nL	1	0.22	
2-Butanone	78-93-3	BRL	nL	1	0.5	
4-Ethyltoluene	622-96-8	BRL	nL	1	2	
Acetone	67-64-1	BRL	nL	1	0.5	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021054

Date : 2/24/2017

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb17022324 Created Date : 02/23/17

Created By : AVBembde

Samples In This QC Batch : 17021054.01,02,03,04

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Benzyl chloride	100-44-7	BRL	nL	1	0.5	
Bromodichloromethane	75-27-4	BRL	nL	1	0.5	
Bromoform	75-25-2	BRL	nL	1	0.5	
Carbon disulfide	75-15-0	BRL	nL	1	0.5	
Cyclohexane	110-82-7	BRL	nL	1	0.5	
Dibromochloromethane	124-48-1	BRL	nL	1	0.5	
Ethanol	64-17-5	BRL	nL	1	0.5	
Ethyl acetate	141-78-6	BRL	nL	1	0.5	
n-Heptane	142-82-5	BRL	nL	1	0.5	
n-Hexane	110-54-3	BRL	nL	1	0.5	
Isopropyl Alcohol	67-63-0	BRL	nL	1	0.5	
Methyl Butyl Ketone	591-78-6	BRL	nL	1	0.5	
Methyl Methacrylate	80-62-6	BRL	nL	1	0.5	
MIBK	108-10-1	BRL	nL	1	0.5	
MTBE	1634-04-4	BRL	nL	1	0.5	
Propylene	115-07-1	BRL	nL	1	2	
Tetrahydrofuran	109-99-9	BRL	nL	1	0.5	
Vinyl Acetate	108-05-4	BRL	nL	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Dichlorodifluoromethane	5	4.36	87.2	5	3.56	71.2	20.2	30	54.4-141	
Chloromethane	5	4.1	82	5	3.11	62.2	27.5	30	49.1-153	
1,2-Dichlorotetrafluoroethane	5	3.9	78	5	3	60	26.1	30	60.2-142	L2
Vinyl Chloride	5	3.98	79.6	5	3.1	62	24.9	30	61-139	
Bromomethane	5	3.67	73.4	5	2.88	57.6	24.1	30	68-131	L2
Chloroethane	5	2.76	55.2	5	2.09	41.8	27.6	30	57.8-144	L2
Trichlorofluoromethane	5	4.46	89.2	5	3.71	74.2	18.4	30	52.6-147	
1,1-Dichloroethylene	5	5.12	102	5	4.28	85.6	17.9	30	72.8-141	
Methylene chloride	5	5.71	114	5	4.46	89.2	24.6	30	68.7-141	
1,1,2-Trichloro-1,2,2-trifluoroethane	5	4.59	91.8	5	3.80	76	18.8	30	54.6-149	
1,1-Dichloroethane	5	4.93	98.6	5	4.09	81.8	18.6	30	65.6-154	
cis-1,2-Dichloroethylene	5	5.27	105	5	4.37	87.4	18.7	30	66.3-150	
Chloroform	5	4.79	95.8	5	3.99	79.8	18.2	30	57.1-149	
1,2-Dichloroethane	5	4.93	98.6	5	4.12	82.4	17.9	30	57.4-140	
1,1,1-Trichloroethane	5	5.13	103	5	4.27	85.4	18.3	30	55.3-139	
Benzene	5	5.19	104	5	4.36	87.2	17.4	30	57.2-141	
Carbon tetrachloride	5	5.21	104	5	4.36	87.2	17.8	30	59.8-135	
1,2-Dichloropropane	5	5.34	107	5	4.46	89.2	18	30	53.4-145	
Trichloroethylene	5	5.19	104	5	4.36	87.2	17.4	30	52.8-133	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021054

Date : 2/24/2017

Analysis : Volatile Organic Compounds in Air by GCMS

Method : EPA TO-15

Reporting Units : nL

QC Batch ID : Qb17022324 Created Date : 02/23/17

Created By : AVBembde

Samples in This QC Batch : 17021054.01,02,03,04

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
cis-1,3-Dichloropropene	5	5.46	109	5	4.62	92.4	16.7	30	54.6-142	
trans-1,3-Dichloropropene	5	5.35	107	5	4.55	91	16.2	30	52.3-139	
1,1,2-Trichloroethane	5	5.21	104	5	4.4	88	16.9	30	56.8-139	
Toluene	5	5.67	113	5	4.8	96	16.6	30	64.7-137	
1,2-Dibromoethane	5	5.2	104	5	4.42	88.4	16.2	30	57.3-133	
Tetrachloroethylene	5	5.54	111	5	4.69	93.8	16.6	30	52-133	
Chlorobenzene	5	5.65	113	5	4.73	94.6	17.7	30	73.7-121	
Ethylbenzene	5	5.59	112	5	4.69	93.8	17.5	30	71.4-133	
m- & p-Xylenes	10	11.3	113	10	9.41	94.1	18.3	30	67.5-137	
Styrene	5	5.68	114	5	4.74	94.8	18	30	69.3-125	
o-Xylene	5	5.48	110	5	4.57	91.4	18.1	30	61.1-138	
1,1,2,2-Tetrachloroethane	5	5.07	101	5	4.24	84.8	17.8	30	59.7-132	
1,3,5-Trimethylbenzene	5	5.61	112	5	4.71	94.2	17.4	30	52.3-135	
1,2,4-Trimethylbenzene	5	5.5	110	5	4.65	93	16.7	30	51.8-132	
1,3-Dichlorobenzene	5	4.72	94.4	5	4.01	80.2	16.3	30	53.6-134	
1,4-Dichlorobenzene	5	4.98	99.6	5	4.3	86	14.7	30	51.1-136	
1,2-Dichlorobenzene	5	5.22	104	5	4.49	89.8	15	30	46.1-137	
1,2,4-Trichlorobenzene	5	3.52	70.4	5	2.98	59.6	16.6	30	40.9-136	
Hexachlorobutadiene	5	4.57	91.4	5	3.87	77.4	16.6	30	49.1-136	
Propylene	5	4.66	93.2	5	3.83	76.6	19.6	30	60-140	
1,3-Butadiene	5	3.87	77.4	5	3.04	60.8	24	30	60-140	
Ethanol	5	2.73	54.6	5	2.2	44	21.5	30	60-140	L2
Acetone	5	4.92	98.4	5	4.1	82	18.2	30	60-140	
Isopropyl Alcohol	5	4.82	96.4	5	4.14	82.8	15.2	30	60-140	
Carbon disulfide	5	4.97	99.4	5	4.09	81.8	19.4	30	60-140	
MTBE	5	5.25	105	5	4.36	87.2	18.5	30	60-140	
2-Butanone	5	4.87	97.4	5	4.09	81.8	17.4	30	60-140	
Ethyl acetate	5	5	100	5	4.18	83.6	17.9	30	60-140	
n-Hexane	5	5.02	100	5	4.15	83	19	30	60-140	
Tetrahydrofuran	5	5.1	102	5	4.26	85.2	17.9	30	60-140	
Cyclohexane	5	5.46	109	5	4.55	91	18.2	30	60-140	
Methyl Methacrylate	5	5.37	107	5	4.51	90.2	17.4	30	60-140	
n-Heptane	5	5.29	106	5	4.4	88	18.4	30	60-140	
MIBK	5	5.19	104	5	4.39	87.8	16.7	30	60-140	
Methyl Butyl Ketone	5	5.1	102	5	4.41	88.2	14.5	30	60-140	
Bromoform	5	5.61	112	5	4.72	94.4	17.2	30	60-140	
4-Ethyltoluene	5	5.61	112	5	4.68	93.6	18.1	30	60-140	
Benzyl chloride	5	4.67	93.4	5	4.02	80.4	15	30	60-140	
Bromodichloromethane	5	5.1	102	5	4.29	85.8	17.3	30	60-140	
Dibromochloromethane	5	5.34	107	5	4.51	90.2	16.9	30	60-140	
Vinyl Acetate	5	5	100	5	4.17	83.4	18.1	30	60-140	

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17021054

Date: 2/24/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RplLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

L2	Associated LCS and/or LCSD recovery is below acceptance limits for flagged analyte. Bias may be low.
V11	CCV recovery is below acceptance limits.



Sample Condition Checklist

A&B JobID : 17021054		Date Received : 02/20/2017		Time Received : 11:52AM																									
Client Name : Terrain Solutions, Inc.																													
Temperature : 23.0°C		Sample pH : n/a																											
Thermometer ID : n/a		pH Paper ID : n/a																											
	Check Points	Yes	No	N/A																									
1.	Cooler seal present and signed.			X																									
2.	Sample(s) in a cooler.		X																										
3.	If yes, Ice in cooler.			X																									
4.	Sample(s) received with chain-of-custody.	X																											
5.	C-O-C signed and dated.	X																											
6.	Sample(s) received with signed sample custody seal.		X																										
7.	Sample containers arrived intact. (If no comment).	X																											
8.	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Matrix</td> <td>Water</td> <td>Soil</td> <td>Liquid</td> <td>Sludge</td> <td>Solid</td> <td>Cassette</td> <td>Tube</td> <td>Bulk</td> <td>Badge</td> <td>Food</td> <td>Other</td> </tr> <tr> <td style="text-align: right;">:</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☒</td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒				
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																		
:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒																		
9.	Sample(s) were received in appropriate container(s).	X																											
10.	Sample(s) were received with proper preservative			X																									
11.	All samples were logged or labeled.	X																											
12.	Sample ID labels match C-O-C ID's	X																											
13.	Bottle count on C-O-C matches bottles found.	X																											
14.	Sample volume is sufficient for analyses requested.	X																											
15.	Samples were received within the hold time.	X																											
16.	VOA vials completely filled.			X																									
17.	Sample accepted.	X																											
18.	Has client been contacted about sub-out			X																									
Comments : Include actions taken to resolve discrepancies/problem:																													
Other= Canisters																													

Received by : AREyes

Check in by/date : AREyes / 02/20/2017

10100 East Fwy (I-10)

Suite 100

Houston, TX 77029

713-453-6060

1-877-478-6060 Toll Free

713-453-6091 Fax

ablabs.com

Company:

Address:

Contact:

Phone:

Fax:

E-mail:

REPORT TO:

Company:

Address:

Contact:

Phone:

Fax:

E-mail:

INVOICE TO:

Company:

Address:

Contact:

Phone:

Fax:

E-mail:

Company:

Address:

Contact:

Phone:

Fax:

E-mail:

3. PO #

3a. A&B Quote #

4. Turnaround Time (Business Days)

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☒ 7 Days - Standard

☐ Other:

*Surcharge applies

A&B JOB ID #

1701054

5. Project #

170209-013

6. Project Name/Location

SUNNYSIDE PARK, 3502 BEVERLY, HOV, TX 77017

7. Reporting Requirement:

☒ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II ☐ PST ☐ MDL ☐ EDD

8. Sampler's Name & Company (PLEASE PRINT)

Sampler's Signature & Date

Pete Beverly PLS 2-18-17

LAB USE ONLY

9. Sample ID and Description

10. Sampling

11. Matrix

12. Date

Time 24hr

Comp.

Grab

Water

Soil

Sludge

Oil

Drinking Water

Air

Other

13. Containers*

14. Preservatives**

15. PH-Lab Only

16. PH-Lab Only

17. Analyses/Methods

18. REMARKS

19. RELINQUISHED BY

DATE

TIME

20. RECEIVED BY

DATE

TIME

21. KNOWN HAZARDS/COMMENTS

Temperature: 23.0 °C

Thermometer ID

Initials

A&B cannot accept verbal changes

Please FAX written changes to 713-453-6091

Samples will be discarded after 30 days

Method of Shipment

Delivery

RENTAL

SAMPLING

Field Mark

March 9, 2017

Mr. Glenn Lowenstein, P.G.
Terrain Solutions, Inc.
10103 Fondren Road, Suite 426
Houston, Texas 77096
Phone: 713-467-2900

RE: Silica Monitoring
Sunnyside Park
Houston, Texas
FERN Project No. 0717-231

Dear Mr. Lowenstein,

Attached are the results for Silica Dust monitoring performed on March 1, 2017, at the above referenced site. The dust levels were monitored utilizing a dosimeter mounted on the collar of an employee working at a lab in the building. The monitoring was conducted during a time period when the employee's work activities would have represented the highest exposure levels.

Background

Due to the cardiopulmonary health effects associated with exposure to airborne fine particulate such as Silica dust, testing in suspected problem areas has become more common in recent years. Testing at the above referenced site was initiated to determine if a commercial facility located to the west of the site may be impacting the air quality at the site.

Methodology

The airborne particulate monitoring for crystalline Silica was conducted on March 1, 2017, using portable battery operated pumps drawing air through 37 millimeter cassettes loaded with 5 Micron PVC filters. The samples were delivered to A&B Environmental Services, Inc., an American Industrial Hygiene Association (AIHA) accredited and Department of State Health Services (DSHS) licensed laboratory, located at 10100 East Freeway, Suite 100, in Houston, Texas 77029. Samples were analyzed by X-Ray Diffraction in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7500.

Analysis results were compared to the Recommended Exposure Limit (REL) of 0.05 milligrams per cubic meter (mg/m³) of air.

The samples were collected along the western side of the Sunnyside Park site during the normal work day when park patrons would likely be exposed to the highest particulate levels.

The test data is presented in the laboratory report included in the attachments to this report.

Results

The test results did not show elevated concentrations of Silica dust at the Sunnyside Park site.

The laboratory analysis shows that the concentrations are Below the Reporting Limit (BRL). Concentrations were less than 0.0142 mg/m³, which is lower than the REL of 0.05 milligrams per cubic meter (mg/m³) of air.

These findings have been prepared in accordance with generally accepted practices in the indoor air quality consulting and testing industry. No other warranties are implied or expressed.

FERN appreciates the opportunity to provide our consulting services. If there are any questions, please feel free to contact us at (832) 797-3059.

Sincerely,
FERN Environmental, LLC



Gregory M. Lall
DSHS Lic. Consultant #105216

Attachments

Laboratory Analysis Report

Job ID : 17030095



10100 East Freeway, Suite 100, Houston, TX 77029 tel. 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
0717-231

Report To :	Client Name:	Fern Environmental	Total Number of Pages:	6
	Attn:	Greg Lall	P.O.#. :	
	Client Address:	1900 West Gray # 131631	Date Received :	03/01/2017 14:20
	City, State, Zip:	Houston, Texas, 77219	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
S-01-NW Side	3/1/2017	Cassette	17030095.01
S-02-W Side	3/1/2017	Cassette	17030095.02
S-03-SW Side	3/1/2017	Cassette	17030095.03

Alisha Hughes

Released By: Alisha Hughes

Title: Project Manager

Analyst:

[Signature]

AIHA-LAP, LLC Lab ID: 101470

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

3/8/2017



Job ID : 17030095

LABORATORY TEST RESULTS

Date: 03/08/2017

CLIENT :	Fern Environmental	PROJECT :	0717-231	ATTN :		Greg Lall	Sample ID	Q					
Method	Parameter	ClientSampleID	Flow Rate (L/M)	Sampling Time (min)	Volume (Liters)	D.F.	RptLimit (ug)	Conc (mg/m3)	Area / Person	8hr TWA mg/m3	Analysis Date/Time	Analyst Initial	Matrix
NIOSH 7500	Quartz	S-01-NW Side	2.0	351	702	BRL	1	10	< 0.0142	Area	03/06/2017 11:38	HA	17030095.01 Cassette
			2.0	351	702	BRL	1	10	< 0.0142	Area	03/06/2017 12:48	HA	17030095.02 Cassette
			2.0	350	700	BRL	1	10	< 0.0143	Area	03/06/2017 13:58	HA	17030095.03 Cassette



LABORATORY QUALITY CONTROL CERTIFICATE

A&B Job ID : 17030095

Date : 3/8/2017

QCType: LCS and LCSD											
Parameter	Method	Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	% RPD CLimits	% Rec CLimits	QCBatchID	Qual
Quartz	NIOSH 7500	150	147.1	149.3	98.1	99.5	1.5	11	85.5-107.3	Qb17030814	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17030095

Date: 3/8/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	sur	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition



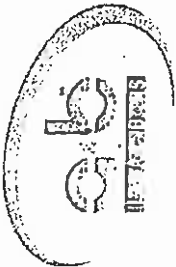
Sample Condition Checklist

A&B JobID : 17030095		Date Received : 03/01/2017		Time Received : 2:20PM																									
Client Name : Fern Environmental																													
Temperature : 24.5°C		Sample pH : n/a																											
Thermometer ID : n/a		pH Paper ID : n/a																											
Check Points																													
		Yes	No	N/A																									
1.	Cooler seal present and signed.			X																									
2.	Sample(s) in a cooler.		X																										
3.	If yes, ice in cooler.			X																									
4.	Sample(s) received with chain-of-custody.	X																											
5.	C-O-C signed and dated.	X																											
6.	Sample(s) received with signed sample custody seal.		X																										
7.	Sample containers arrived intact. (If no comment).	X																											
8.	<table border="0" style="width: 100%;"> <tr> <td>Matrix</td> <td>Water</td> <td>Soil</td> <td>Liquid</td> <td>Sludge</td> <td>Solid</td> <td>Cassette</td> <td>Tube</td> <td>Bulk</td> <td>Badge</td> <td>Food</td> <td>Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☒</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐				
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																		
:	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐																		
9.	Sample(s) were received in appropriate container(s).	X																											
10.	Sample(s) were received with proper preservative			X																									
11.	All samples were logged or labeled.	X																											
12.	Sample ID labels match C-O-C ID's	X																											
13.	Bottle count on C-O-C matches bottles found.	X																											
14.	Sample volume is sufficient for analyses requested.	X																											
15.	Samples were received within the hold time.	X																											
16.	VOA vials completely filled.			X																									
17.	Sample accepted.	X																											
18.	Has client been contacted about sub-out			X																									
Comments : Include actions taken to resolve discrepancies/problem: Pre-weighed cassettes.																													

Received by : AHall

Check in by/date : AHall / 03/01/2017

INDUSTRIAL HYGIENE AIR MONITORING FIELD RECORD SHEET

 10100 East Freeway Houston, Texas 77029 Ph: 713-453-6060 Fax: 713-453-6091 www.ablabs.com		REPORT TO: Company: <u>FERN Environmental</u> Address: <u>1900 W. Gray #13631</u> Contact: <u>Greg Lal</u> Phone: <u>832-747-3059</u> Fax: _____ Email: <u>greg@fernenviromental.com</u>		INVOICE TO: Company: <u>Fern</u> Address: _____ Contact: _____ Phone: _____ P.O.# _____		TURNAROUND TIME <u>5 Days</u> *3 Days *2 Days *1 Day Note: _____ *Surcharge Applies	
Project# <u>0717-231</u>		Day Zero is the day sample is submitted. Report due on 5th day.					
A&B Lab ID# <u>17030095</u>		Comments					
Sampler's Name		Analysis Requested					
No	Sample ID	Area/Person	Collection Date	Flow Rate L/min	Start Time	Stop Time	Total Time (m)
01A	S-01	NW SIDE	3-1-17	2	8:10	2:01	361
02A	S-02	W SIDE	"	"	8:13	2:04	351
03A	S-03	SW SIDE	"	"	8:16	2:06	350
Relinquished By: <u>Greg Lal</u>		Received By: <u>PL</u>		Date		Time	
1			3-1-17	2:20			3-1-17 14:20
2							24.5 °C
3							

Laboratory Analysis Report

Total Number of Pages: 159

Job ID : 17021401



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
170209-01B / 3502 Belfort, Houston, TX 77051

Report To :	Client Name:	Terrain Solutions, Inc.	P.O.#:
	Attn:	Glenn Lowenstein	Sample Collected By: Matthew R. Cowan
	Client Address:	10103 Fondren Rd. Ste 426	Date Collected: 02/22/17 - 02/23/17
	City, State, Zip:	Houston, Texas, 77096	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
ST-1	Water	17021401.01
ST-2	Water	17021401.02
ST-3	Water	17021401.03
ST-4	Water	17021401.04
ST-1 (2-4)	Soil	17021401.05
ST-2 (2-4)	Soil	17021401.06
ST-3 (0-4)	Soil	17021401.07
ST-4 (2-4)	Soil	17021401.08
SB-1 (4-6)	Soil	17021401.09
SB-2 (4-6)	Soil	17021401.10
SB-3 (4-6)	Soil	17021401.11
SB-4 (4-6)	Soil	17021401.12
SB-5 (4-6)	Soil	17021401.13
SB-6 (2-4)	Soil	17021401.14

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 3/6/2017



This Laboratory is NELAP (T104704213-16-15) accredited. Effective: 10/15/2016; Expires: 03/31/2017

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 02/24/2017 10:42

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1
A&B Job Sample ID: 17021401.01

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Dissolved Metals**

Analytical Method: EPA 200.7
QC Batch ID: Qb17030171
Prep Method: EPA 200.7
Prepared By: BRena
Prep Batch ID: PB17030170

Sample Matrix: Water
Date Collected: 02/22/2017 10:50
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 09:00

Analyst Initial: BRR

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:00
7440-39-3	Barium	0.250		0.004	0.02	0.004	0.02	2	mg/L	1	03/01/17 14:00
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	03/01/17 14:00
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:00
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	03/01/17 14:00
7782-49-2	Selenium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:00
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	03/01/17 14:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1

Date: 3/6/2017

A&B Job Sample ID: 17021401.01

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Dissolved Mercury**

Sample Matrix: Water

Analytical Method: EPA 245.1

Date Collected: 02/22/2017 10:50

QC Batch ID: Qb17030355

Date Received: 02/24/2017 10:42

Prep Method: EPA 245.1

Date Prepared: 03/03/2017 10:40

Prepared By: csmith

Prep Batch ID: PB17030345

Analyst Initial: CAS

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.0003	D1,U	0.0003	0.003	0.00006	0.0005	0.01	mg/L	5	03/03/17 13:33



LABORATORY TEST RESULTS

Client Sample ID: ST-1

Date: 3/6/2017

A&B Job Sample ID: 17021401.01

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SM 4500H B

QC Batch ID: Qb17030339

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Water

Date Collected 02/22/2017 10:50

Date Received 02/24/2017 10:42

Date Prepared

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.65	H3				----	----	s.u.		03/03/17 10:10
	Temperature when re	18.5	H3				----	----	s.u.		03/03/17 10:10

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1
A&B Job Sample ID: 17021401.01

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 10:50

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/27/17 16:37
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 16:37
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 16:37
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1
A&B Job Sample ID: 17021401.01

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 10:50

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 16:37
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/27/17 16:37
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 16:37
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 16:37
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/27/17 16:37
17060-07-0	1,2-Dichloroethane-d4	121					70	130	%	1	02/27/17 16:37
1868-53-7	Dibromofluoromethan	112					70	130	%	1	02/27/17 16:37
2037-26-5	Toluene-d8(surr)	106					70	130	%	1	02/27/17 16:37
460-00-4	p-Bromofluorobenzen	113					70	130	%	1	02/27/17 16:37

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1
A&B Job Sample ID: 17021401.01

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 10:50

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 16:29
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 16:29
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 16:29
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 16:29
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 16:29
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	03/02/17 16:29
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
59-50-7	4-Chloro-3-methylphe	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
100-02-7	4-Nitrophenol	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	03/02/17 16:29
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 16:29

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1
A&B Job Sample ID: 17021401.01

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 10:50

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 16:29
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 16:29
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 16:29
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 16:29
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 16:29
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	03/02/17 16:29
118-79-6	2,4,6-Tribromophenol	59.2					19	122	%	1	03/02/17 16:29
13127-88-3	Phenol-d6(surr)	10.7					10	130	%	1	03/02/17 16:29
132-60-8	2-Fluorobiphenyl(surr)	57.7					30	115	%	1	03/02/17 16:29
1718-51-0	p-Terphenyl-d14(surr)	65.3					18	137	%	1	03/02/17 16:29
367-12-4	2-Fluorophenol(surr)	18.5					15	115	%	1	03/02/17 16:29
4165-60-0	Nitrobenzene-d5(surr)	54					23	120	%	1	03/02/17 16:29

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1

Date: 3/6/2017

A&B Job Sample ID: 17021401.01

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Total Petroleum Hydrocarbons**

Sample Matrix: Water

Analytical Method: TX 1005

Date Collected: 02/22/2017 10:50

QC Batch ID: Qb17030112

Date Received: 02/24/2017 10:42

Prep Method: TX 1005

Date Prepared: 02/27/2017 10:00

Prepared By: AVBembde

Prep Batch ID: PB17030107

Analyst Initial: VMN

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.614	U	0.614	1.40	0.66	1.5	60	mg/L	0.93	02/27/17 21:39
TPH-1005-2	>C12-C28 ¹	< 0.800	U	0.800	1.40	0.86	1.5	60	mg/L	0.93	02/27/17 21:39
TPH-1005-4	>C28-C35 ¹	< 0.698	U	0.698	1.40	0.75	1.5	60	mg/L	0.93	02/27/17 21:39
	Total C6-C35	<					----	----	mg/L	0.93	02/27/17 21:39
111-85-3	1-Chlorooctane(surr)	84.5					59	122	%	0.93	02/27/17 21:39
3386-33-2	Chlorooctadecane(sur	107					48	123	%	0.93	02/27/17 21:39

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Dissolved Metals**

Analytical Method: EPA 200.7
QC Batch ID: Qb17030171
Prep Method: EPA 200.7
Prepared By: BRena
Prep Batch ID: PB17030170

Sample Matrix: Water
Date Collected: 02/22/2017 12:00
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 09:00

Analyst Initial: BRR

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:04
7440-39-3	Barium	0.338		0.004	0.02	0.004	0.02	2	mg/L	1	03/01/17 14:04
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	03/01/17 14:04
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:04
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	03/01/17 14:04
7782-49-2	Selenium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:04
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	03/01/17 14:04

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2

Date: 3/6/2017

A&B Job Sample ID: 17021401.02

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Dissolved Mercury**

Sample Matrix: Water

Analytical Method: EPA 245.1

Date Collected: 02/22/2017 12:00

QC Batch ID: Qb17030355

Date Received: 02/24/2017 10:42

Prep Method: EPA 245.1

Date Prepared: 03/03/2017 10:40

Prepared By: csmith

Prep Batch ID: PB17030345

Analyst Initial: CAS

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.0003	D1,U	0.0003	0.003	0.00006	0.0005	0.01	mg/L	5	03/03/17 13:35

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2

Date: 3/6/2017

A&B Job Sample ID: 17021401.02

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SM 4500H B

QC Batch ID: Qb17030339

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Water

Date Collected 02/22/2017 12:00

Date Received 02/24/2017 10:42

Date Prepared

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.45	H3				----	----	s.u.		03/03/17 10:10
	Temperature when re	18	H3				----	----	s.u.		03/03/17 10:10

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/27/17 17:12
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 17:12
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 17:12
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 17:12
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/27/17 17:12
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 17:12
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:12
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/27/17 17:12
17060-07-0	1,2-Dichloroethane-d4	120					70	130	%	1	02/27/17 17:12
1868-53-7	Dibromofluoromethan	120					70	130	%	1	02/27/17 17:12
2037-26-5	Toluene-d8(surr)	104					70	130	%	1	02/27/17 17:12
460-00-4	p-Bromofluorobenzen	111					70	130	%	1	02/27/17 17:12

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:12
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:12
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:12
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:12
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:12
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	03/02/17 19:12
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
59-50-7	4-Chloro-3-methylphe	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
100-02-7	4-Nitrophenol	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	03/02/17 19:12
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:12

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthrace	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:12
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:12
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:12
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:12
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:12
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	03/02/17 19:12
118-79-6	2,4,6-Tribromophenol	64.6					19	122	%	1	03/02/17 19:12
13127-88-3	Phenol-d6(surr)	10.7					10	130	%	1	03/02/17 19:12
132-60-8	2-Fluorobiphenyl(surr)	63.8					30	115	%	1	03/02/17 19:12
1718-51-0	p-Terphenyl-d14(surr)	63.6					18	137	%	1	03/02/17 19:12
367-12-4	2-Fluorophenol(surr)	20.1					15	115	%	1	03/02/17 19:12
4165-60-0	Nitrobenzene-d5(surr)	55.9					23	120	%	1	03/02/17 19:12

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2
A&B Job Sample ID: 17021401.02

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030112

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030107

Analyst Initial: VMN

Sample Matrix: Water

Date Collected: 02/22/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.601	U	0.601	1.37	0.66	1.5	60	mg/L	0.91	02/27/17 22:07
TPH-1005-2	>C12-C28 ¹	< 0.783	U	0.783	1.37	0.86	1.5	60	mg/L	0.91	02/27/17 22:07
TPH-1005-4	>C28-C35 ¹	< 0.683	U	0.683	1.37	0.75	1.5	60	mg/L	0.91	02/27/17 22:07
	Total C6-C35	<					----	----	mg/L	0.91	02/27/17 22:07
111-85-3	1-Chlorooctane(surr)	66.2					59	122	%	0.91	02/27/17 22:07
3386-33-2	Chlorooctadecane(sur	87.6					48	123	%	0.91	02/27/17 22:07

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3
A&B Job Sample ID: 17021401.03

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Dissolved Metals**

Analytical Method: EPA 200.7
QC Batch ID: Qb17030171
Prep Method: EPA 200.7
Prepared By: BRena
Prep Batch ID: PB17030170

Sample Matrix: Water
Date Collected: 02/22/2017 14:10
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 09:00

Analyst Initial: BRR

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:07
7440-39-3	Barium	0.540		0.004	0.02	0.004	0.02	2	mg/L	1	03/01/17 14:07
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	03/01/17 14:07
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:07
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	03/01/17 14:07
7782-49-2	Selenium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:07
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	03/01/17 14:07

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3

Date: 3/6/2017

A&B Job Sample ID: 17021401.03

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Dissolved Mercury**

Sample Matrix: Water

Analytical Method: EPA 245.1

Date Collected: 02/22/2017 14:10

QC Batch ID: Qb17030355

Date Received: 02/24/2017 10:42

Prep Method: EPA 245.1

Date Prepared: 03/03/2017 10:40

Prepared By: csmith

Prep Batch ID: PB17030345

Analyst Initial: CAS

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.00011	D1,U	0.0003	0.003	0.00006	0.0005	0.01	mg/L	5	03/03/17 13:38



LABORATORY TEST RESULTS

Client Sample ID: ST-3

Date: 3/6/2017

A&B Job Sample ID: 17021401.03

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SM 4500H B

QC Batch ID: Qb17030339

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Water

Date Collected 02/22/2017 14:10

Date Received 02/24/2017 10:42

Date Prepared

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.38	H3				----	----	s.u.		03/03/17 10:10
	Temperature when re	18.5	H3				----	----	s.u.		03/03/17 10:10

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3
A&B Job Sample ID: 17021401.03

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 14:10

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/27/17 17:47
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 17:47
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 17:47
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3
A&B Job Sample ID: 17021401.03

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 14:10

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 17:47
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/27/17 17:47
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 17:47
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 17:47
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/27/17 17:47
17060-07-0	1,2-Dichloroethane-d4	125					70	130	%	1	02/27/17 17:47
1868-53-7	Dibromofluoromethan	112					70	130	%	1	02/27/17 17:47
2037-26-5	Toluene-d8(surr)	101					70	130	%	1	02/27/17 17:47
460-00-4	p-Bromofluorobenzen	117					70	130	%	1	02/27/17 17:47

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3
A&B Job Sample ID: 17021401.03

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 14:10

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:39
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:39
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:39
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:39
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 19:39
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	03/02/17 19:39
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
59-50-7	4-Chloro-3-methylphe	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39
100-02-7	4-Nitrophenol	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	03/02/17 19:39
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:39

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3
A&B Job Sample ID: 17021401.03

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 14:10

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 19:39	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 19:39	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 19:39	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 19:39	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 19:39	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	03/02/17 19:39	
118-79-6	2,4,6-Tribromophenol	80.9						19	122	%	1	03/02/17 19:39
13127-88-3	Phenol-d6(surr)	11.7						10	130	%	1	03/02/17 19:39
132-60-8	2-Fluorobiphenyl(surr)	74						30	115	%	1	03/02/17 19:39
1718-51-0	p-Terphenyl-d14(surr)	82.8						18	137	%	1	03/02/17 19:39
367-12-4	2-Fluorophenol(surr)	21.4						15	115	%	1	03/02/17 19:39
4165-60-0	Nitrobenzene-d5(surr)	69.2						23	120	%	1	03/02/17 19:39

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3

Date: 3/6/2017

A&B Job Sample ID: 17021401.03

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Total Petroleum Hydrocarbons**

Sample Matrix: Water

Analytical Method: TX 1005

Date Collected: 02/22/2017 14:10

QC Batch ID: Qb17030112

Date Received: 02/24/2017 10:42

Prep Method: TX 1005

Date Prepared: 02/27/2017 10:00

Prepared By: AVBembde

Prep Batch ID: PB17030107

Analyst Initial: VMN

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.614	U	0.614	1.40	0.66	1.5	60	mg/L	0.93	02/28/17 00:27
TPH-1005-2	>C12-C28 ¹	< 0.800	U	0.800	1.40	0.86	1.5	60	mg/L	0.93	02/28/17 00:27
TPH-1005-4	>C28-C35 ¹	< 0.698	U	0.698	1.40	0.75	1.5	60	mg/L	0.93	02/28/17 00:27
	Total C6-C35	<					----	----	mg/L	0.93	02/28/17 00:27
111-85-3	1-Chlorooctane(surr)	75.9					59	122	%	0.93	02/28/17 00:27
3386-33-2	Chlorooctadecane(sur	101					48	123	%	0.93	02/28/17 00:27

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Dissolved Metals**

Analytical Method: EPA 200.7
QC Batch ID: Qb17030171
Prep Method: EPA 200.7
Prepared By: BRena
Prep Batch ID: PB17030170

Sample Matrix: Water
Date Collected: 02/22/2017 15:40
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 09:00

Analyst Initial: BRR

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:10
7440-39-3	Barium	0.239		0.004	0.02	0.004	0.02	2	mg/L	1	03/01/17 14:10
7440-43-9	Cadmium	< 0.002	U	0.002	0.02	0.002	0.02	30	mg/L	1	03/01/17 14:10
7440-47-3	Chromium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:10
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	03/01/17 14:10
7782-49-2	Selenium	< 0.004	U	0.004	0.02	0.004	0.02	40	mg/L	1	03/01/17 14:10
7440-22-4	Silver	< 0.001	U	0.001	0.02	0.001	0.02	4	mg/L	1	03/01/17 14:10

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc. Attn: Glenn Lowenstein
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Dissolved Mercury**

Analytical Method: EPA 245.1

QC Batch ID: Qb17030355

Prep Method: EPA 245.1

Prepared By: csmith

Prep Batch ID: PB17030345

Analyst Initial: CAS

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/03/2017 10:40

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	< 0.0003	D1,U	0.0003	0.003	0.00006	0.0005	0.01	mg/L	5	03/03/17 13:41



LABORATORY TEST RESULTS

Client Sample ID: ST-4

Date: 3/6/2017

A&B Job Sample ID: 17021401.04

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SM 4500H B

QC Batch ID: Qb17030339

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Water

Date Collected 02/22/2017 15:40

Date Received 02/24/2017 10:42

Date Prepared

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	7.63	H3				----	----	s.u.		03/03/17 10:10
	Temperature when re	18.8	H3				----	----	s.u.		03/03/17 10:10

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
123-91-1	1,4-Dioxane	< 0.084	U	0.084	0.320	0.084	0.32	1.6	mg/L	1	02/27/17 18:22
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
99-87-6	4-Isopropyltoluene	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 18:22
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-25-2	Bromoform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
74-83-9	Bromomethane	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 18:22
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-00-3	Chloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Volatile Organic Compounds**

Analytical Method: SW-846 8260C

QC Batch ID: Qb17022816

Prep Method: SW-846 5030C

Prepared By: Jdongre

Prep Batch ID: PB17022816

Analyst Initial: JKD

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:45

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
10061-01-5	cis-1,3-Dichloroprope	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-71-8	Dichlorodifluorometha	< 0.003	U	0.003	0.005	0.003	0.005	0.05	mg/L	1	02/27/17 18:22
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
108-38-3&106-4	m- & p-Xylenes	< 0.002	U	0.002	0.01	0.002	0.01	0.1	mg/L	1	02/27/17 18:22
78-93-3	MEK	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
91-20-3	Naphthalene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/L	1	02/27/17 18:22
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
10061-02-6	trans-1,3-Dichloropro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/L	1	02/27/17 18:22
1330-20-7	Xylenes	< 0.002	U	0.002	0.015	0.002	0.015	0.15	mg/L	1	02/27/17 18:22
17060-07-0	1,2-Dichloroethane-d4	129						70 130	%	1	02/27/17 18:22
1868-53-7	Dibromofluoromethan	112						70 130	%	1	02/27/17 18:22
2037-26-5	Toluene-d8(surr)	102						70 130	%	1	02/27/17 18:22
460-00-4	p-Bromofluorobenzen	105						70 130	%	1	02/27/17 18:22

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 20:06
95-50-1	1,2-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06
541-73-1	1,3-Dichlorobenzene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 20:06
106-46-7	1,4-Dichlorobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06
95-95-4	2,4,5-Trichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
88-06-2	2,4,6-Trichlorophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 20:06
120-83-2	2,4-Dichlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
105-67-9	2,4-Dimethylphenol	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
51-28-5	2,4-Dinitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 20:06
121-14-2	2,4-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
606-20-2	2,6-Dinitrotoluene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
91-58-7	2-Chloronaphthalene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
95-57-8	2-Chlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
91-57-6	2-Methylnaphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
95-48-7	2-Methylphenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
88-75-5	2-Nitrophenol	< 0.007	U	0.007	0.01	0.007	0.01	0.12	mg/L	1	03/02/17 20:06
108-39-4 & 106-	3- & 4-Methylphenols	< 0.005	U	0.005	0.02	0.005	0.02	0.24	mg/L	1	03/02/17 20:06
534-52-1	4,6-Dinitro-2-methylp	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
101-55-3	4-Bromophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
59-50-7	4-Chloro-3-methylphe	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
7005-72-3	4-Chlorophenyl pheny	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06
100-02-7	4-Nitrophenol	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
83-32-9	Acenaphthene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
208-96-8	Acenaphthylene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
120-12-7	Anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
56-55-3	Benzo(a)anthracene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
50-32-8	Benzo(a)pyrene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
205-99-2	Benzo(b)fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06
191-24-2	Benzo(g,h,i)perylene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
207-08-9	Benzo(k)fluoranthene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06
111-91-1	Bis(2-chloroethoxy) m	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
111-44-4	Bis(2-chloroethyl) eth	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06
108-60-1	Bis(2-chloroisopropyl)	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06
117-81-7	Bis(2-ethylhexyl) phth	< 0.008	U	0.008	0.01	0.008	0.01	0.12	mg/L	1	03/02/17 20:06
85-68-7	Butyl benzyl phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06
218-01-9	Chrysene	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 20:06

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030328

Prep Method: SW-846 3510C

Prepared By: CMPolnick

Prep Batch ID: PB17030178

Analyst Initial: PNS

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 08:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthracene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06	
84-66-2	Diethyl phthalate	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06	
131-11-3	Dimethyl phthalate	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
84-74-2	Di-n-butyl phthalate	< 0.002	U	0.002	0.01	0.002	0.01	0.12	mg/L	1	03/02/17 20:06	
117-84-0	Di-n-octyl Phthalate	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06	
206-44-0	Fluoranthene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06	
86-73-7	Fluorene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06	
118-74-1	Hexachlorobenzene	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06	
87-68-3	Hexachlorobutadiene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
77-47-4	Hexachlorocyclopenta	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
67-72-1	Hexachloroethane	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06	
78-59-1	Isophorone	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06	
91-20-3	Naphthalene	< 0.004	U	0.004	0.01	0.004	0.01	0.12	mg/L	1	03/02/17 20:06	
98-95-3	Nitrobenzene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
62-75-9	N-Nitrosodimethylami	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
621-64-7	N-nitroso-di-n-propyla	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
87-86-5	Pentachlorophenol	< 0.005	U	0.005	0.01	0.005	0.01	0.12	mg/L	1	03/02/17 20:06	
85-01-8	Phenanthrene	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
108-95-2	Phenol	< 0.003	U	0.003	0.01	0.003	0.01	0.12	mg/L	1	03/02/17 20:06	
129-00-0	Pyrene	< 0.006	U	0.006	0.01	0.006	0.01	0.12	mg/L	1	03/02/17 20:06	
110-86-1	Pyridine	< 0.015	U	0.015	0.01	0.015	0.01	0.12	mg/L	1	03/02/17 20:06	
118-79-6	2,4,6-Tribromophenol	75.9						19	122	%	1	03/02/17 20:06
13127-88-3	Phenol-d6(surr)	12						10	130	%	1	03/02/17 20:06
132-60-8	2-Fluorobiphenyl(surr)	69.8						30	115	%	1	03/02/17 20:06
1718-51-0	p-Terphenyl-d14(surr)	73.1						18	137	%	1	03/02/17 20:06
367-12-4	2-Fluorophenol(surr)	23						15	115	%	1	03/02/17 20:06
4165-60-0	Nitrobenzene-d5(surr)	65						23	120	%	1	03/02/17 20:06

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4
A&B Job Sample ID: 17021401.04

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030112

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030107

Analyst Initial: VMN

Sample Matrix: Water

Date Collected: 02/22/2017 15:40

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 10:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 0.620	U	0.620	1.41	0.66	1.5	60	mg/L	0.94	02/28/17 00:56
TPH-1005-2	>C12-C28 ¹	< 0.808	U	0.808	1.41	0.86	1.5	60	mg/L	0.94	02/28/17 00:56
TPH-1005-4	>C28-C35 ¹	< 0.705	U	0.705	1.41	0.75	1.5	60	mg/L	0.94	02/28/17 00:56
	Total C6-C35	<					----	----	mg/L	0.94	02/28/17 00:56
111-85-3	1-Chlorooctane(surr)	62.7					59	122	%	0.94	02/28/17 00:56
3386-33-2	Chlorooctadecane(sur	80					48	123	%	0.94	02/28/17 00:56

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/22/2017 14:40

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	18.6					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/22/2017 14:40
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.87	J	0.614	3.07	0.1	0.5	1000	mg/Kg	5	03/03/17 16:29
7440-39-3	Barium	137		2.46	12.3	0.1	0.5	50	mg/Kg	20	03/02/17 20:50
7440-43-9	Cadmium	0.286	J	0.246	3.07	0.04	0.5	750	mg/Kg	5	03/03/17 16:29
7440-47-3	Chromium	10.5		0.614	3.07	0.1	0.5	1000	mg/Kg	5	03/03/17 16:29
7439-92-1	Lead	4.30		0.614	3.07	0.1	0.5	2500	mg/Kg	5	03/03/17 16:29
7782-49-2	Selenium	< 0.614	D6,U	0.614	3.07	0.1	0.5	1000	mg/Kg	5	03/03/17 16:29
7440-22-4	Silver	0.571	D6, J	0.123	3.07	0.02	0.5	100	mg/Kg	5	03/03/17 16:29

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/22/2017 14:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.009		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:07

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 14:40
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
71-55-6	1,1,1-Trichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
79-34-5	1,1,2,2-Tetrachloroet	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
79-00-5	1,1,2-Trichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-34-3	1,1-Dichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
563-58-6	1,1-Dichloropropene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
96-18-4	1,2,3-Trichloropropan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
120-82-1	1,2,4-Trichlorobenzen	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
95-63-6	1,2,4-Trimethylbenze	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
96-12-8	1,2-Dibromo-3-chloro	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
106-93-4	1,2-Dibromoethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
95-50-1	1,2-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
107-06-2	1,2-Dichloroethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
78-87-5	1,2-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
108-67-8	1,3,5-Trimethylbenze	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
541-73-1	1,3-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
142-28-9	1,3-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
106-46-7	1,4-Dichlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
123-91-1	1,4-Dioxane	< 0.073	U	0.073	0.311	0.075	0.32	1.6	mg/Kg	0.79	02/27/17 17:26
594-20-7	2,2-Dichloropropane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
95-49-8	2-Chlorotoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
106-43-4	4-Chlorotoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
99-87-6	4-Isopropyltoluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
71-43-2	Benzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
108-86-1	Bromobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
74-97-5	Bromochloromethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-27-4	Bromodichloromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-25-2	Bromoform	< 0.00049	U	0.00049	0.005	0.0005	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
74-83-9	Bromomethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
56-23-5	Carbon tetrachloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
108-90-7	Chlorobenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-00-3	Chloroethane	< 0.003	U,V1	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
67-66-3	Chloroform	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 14:40
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
156-59-2	cis-1,2-Dichloroethyle	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
10061-01-5	cis-1,3-Dichloroprope	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
124-48-1	Dibromochloromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
74-95-3	Dibromomethane	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
100-41-4	Ethylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
98-82-8	Isopropylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
108-38-3&106-4	m- & p-Xylenes	< 0.00097	U	0.00097	0.01	0.001	0.01	0.1	mg/Kg	0.79	02/27/17 17:26
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-09-2	Methylene chloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
91-20-3	Naphthalene	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
104-51-8	n-Butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
103-65-1	n-Propylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
95-47-6	o-Xylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
135-98-8	sec-Butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
100-42-5	Styrene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
98-06-6	t-butylbenzene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
127-18-4	Tetrachloroethylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
108-88-3	Toluene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
156-60-5	trans-1,2-Dichloroethy	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
10061-02-6	trans-1,3-Dichloropro	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
79-01-6	Trichloroethylene	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-69-4	Trichlorofluoromethan	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
75-01-4	Vinyl Chloride	< 0.00097	U	0.00097	0.005	0.001	0.005	0.05	mg/Kg	0.79	02/27/17 17:26
1330-20-7	Xylenes	< 0.00097	U	0.00097	0.005	0.001	0.005	0.15	mg/Kg	0.79	02/27/17 17:26
17060-07-0	1,2-Dichloroethane-d4	117					70	130	%	0.79	02/27/17 17:26
1868-53-7	Dibromofluoromethan	99.4					70	130	%	0.79	02/27/17 17:26
2037-26-5	Toluene-d8(surr)	98.7					70	130	%	0.79	02/27/17 17:26
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.79	02/27/17 17:26

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/22/2017 14:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01
95-50-1	1,2-Dichlorobenzene	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01
541-73-1	1,3-Dichlorobenzene	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01
106-46-7	1,4-Dichlorobenzene	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01
95-95-4	2,4,5-Trichlorophenol	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01
88-06-2	2,4,6-Trichlorophenol	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01
120-83-2	2,4-Dichlorophenol	< 0.147	U	0.147	0.409	0.12	0.333	4	mg/Kg	1	03/02/17 21:01
105-67-9	2,4-Dimethylphenol	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01
51-28-5	2,4-Dinitrophenol	< 0.147	U	0.147	0.409	0.12	0.333	4	mg/Kg	1	03/02/17 21:01
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.409	0.009	0.333	4	mg/Kg	1	03/02/17 21:01
606-20-2	2,6-Dinitrotoluene	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01
91-58-7	2-Chloronaphthalene	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01
95-57-8	2-Chlorophenol	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01
91-57-6	2-Methylnaphthalene	< 0.369	U	0.369	0.409	0.30	0.333	4	mg/Kg	1	03/02/17 21:01
95-48-7	2-Methylphenol	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01
88-75-5	2-Nitrophenol	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01
108-39-4 & 106-	3- & 4-Methylphenols	< 0.160	U	0.160	0.819	0.13	0.667	8	mg/Kg	1	03/02/17 21:01
534-52-1	4,6-Dinitro-2-methylp	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01
101-55-3	4-Bromophenyl pheny	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01
59-50-7	4-Chloro-3-methylphe	< 0.172	U	0.172	0.409	0.14	0.333	4	mg/Kg	1	03/02/17 21:01
7005-72-3	4-Chlorophenyl pheny	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01
100-02-7	4-Nitrophenol	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01
83-32-9	Acenaphthene	< 0.184	U	0.184	0.409	0.15	0.333	4	mg/Kg	1	03/02/17 21:01
208-96-8	Acenaphthylene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01
120-12-7	Anthracene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01
56-55-3	Benzo(a)anthracene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01
50-32-8	Benzo(a)pyrene	< 0.369	U	0.369	0.409	0.30	0.333	4	mg/Kg	1	03/02/17 21:01
205-99-2	Benzo(b)fluoranthene	< 0.369	U	0.369	0.409	0.30	0.333	4	mg/Kg	1	03/02/17 21:01
191-24-2	Benzo(g,h,i)perylene	< 0.491	U	0.491	0.409	0.40	0.333	4	mg/Kg	1	03/02/17 21:01
207-08-9	Benzo(k)fluoranthene	< 0.184	U	0.184	0.409	0.15	0.333	4	mg/Kg	1	03/02/17 21:01
111-91-1	Bis(2-chloroethoxy) m	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01
111-44-4	Bis(2-chloroethyl) eth	< 0.369	U	0.369	0.409	0.30	0.333	4	mg/Kg	1	03/02/17 21:01
108-60-1	Bis(2-chloroisopropyl)	< 0.147	U	0.147	0.409	0.12	0.333	4	mg/Kg	1	03/02/17 21:01
117-81-7	Bis(2-ethylhexyl) phth	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01
85-68-7	Butyl benzyl phthalate	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01
218-01-9	Chrysene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/22/2017 14:40

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthracene	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01	
132-64-9	Dibenzofuran	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01	
84-66-2	Diethyl phthalate	< 0.172	U	0.172	0.409	0.14	0.333	4	mg/Kg	1	03/02/17 21:01	
131-11-3	Dimethyl phthalate	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01	
84-74-2	Di-n-butyl phthalate	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01	
117-84-0	Di-n-octyl Phthalate	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01	
206-44-0	Fluoranthene	< 0.209	U	0.209	0.409	0.17	0.333	4	mg/Kg	1	03/02/17 21:01	
86-73-7	Fluorene	< 0.197	U	0.197	0.409	0.16	0.333	4	mg/Kg	1	03/02/17 21:01	
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.409	0.010	0.333	4	mg/Kg	1	03/02/17 21:01	
87-68-3	Hexachlorobutadiene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01	
77-47-4	Hexachlorocyclopenta	< 0.147	U	0.147	0.409	0.12	0.333	4	mg/Kg	1	03/02/17 21:01	
67-72-1	Hexachloroethane	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.246	U	0.246	0.409	0.20	0.333	4	mg/Kg	1	03/02/17 21:01	
78-59-1	Isophorone	< 0.160	U	0.160	0.409	0.13	0.333	4	mg/Kg	1	03/02/17 21:01	
91-20-3	Naphthalene	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01	
98-95-3	Nitrobenzene	< 0.147	U	0.147	0.409	0.12	0.333	4	mg/Kg	1	03/02/17 21:01	
62-75-9	N-Nitrosodimethylami	< 0.111	U	0.111	0.409	0.09	0.333	4	mg/Kg	1	03/02/17 21:01	
621-64-7	N-nitroso-di-n-propyla	< 0.123	U	0.123	0.409	0.10	0.333	4	mg/Kg	1	03/02/17 21:01	
87-86-5	Pentachlorophenol	< 0.172	U	0.172	0.409	0.14	0.333	4	mg/Kg	1	03/02/17 21:01	
85-01-8	Phenanthrene	< 0.246	U	0.246	0.409	0.20	0.333	4	mg/Kg	1	03/02/17 21:01	
108-95-2	Phenol	< 0.135	U	0.135	0.409	0.11	0.333	4	mg/Kg	1	03/02/17 21:01	
129-00-0	Pyrene	< 0.221	U	0.221	0.409	0.18	0.333	4	mg/Kg	1	03/02/17 21:01	
118-79-6	2,4,6-Tribromophenol	63.6						10	120	%	1	03/02/17 21:01
13127-88-3	Phenol-d6(surr)	67.9						15	120	%	1	03/02/17 21:01
132-60-8	2-Fluorobiphenyl(surr)	72.8						30	115	%	1	03/02/17 21:01
1718-51-0	p-Terphenyl-d14(surr)	80.2						30	140	%	1	03/02/17 21:01
367-12-4	2-Fluorophenol(surr)	71.3						20	115	%	1	03/02/17 21:01
4165-60-0	Nitrobenzene-d5(surr)	62.7						20	120	%	1	03/02/17 21:01

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/22/2017 14:40

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.44					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-1 (2-4)
A&B Job Sample ID: 17021401.05

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005
QC Batch ID: Qb17030335
Prep Method: TX 1005
Prepared By: AVBembde
Prep Batch ID: PB17030326

Sample Matrix: Soil
Date Collected: 02/22/2017 14:40
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 18:00

Analyst Initial: AVB

% Moisture: 18.6

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 29.1	U	29.1	30.7	23.7	25	1000	mg/Kg	1	02/28/17 05:57
TPH-1005-2	>C12-C28 ¹	< 24.9	U	24.9	30.7	20.3	25	1000	mg/Kg	1	02/28/17 05:57
TPH-1005-4	>C28-C35 ¹	< 21.7	U	21.7	30.7	17.7	25	1000	mg/Kg	1	02/28/17 05:57
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 05:57
111-85-3	1-Chlorooctane(surr)	103					60	143	%	1	02/28/17 05:57
3386-33-2	Chlorooctadecane(sur	113					60	150	%	1	02/28/17 05:57

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/22/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	14					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/22/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	6.53		0.581	2.91	0.1	0.5	1000	mg/Kg	5	03/03/17 16:32
7440-39-3	Barium	213		2.33	11.6	0.1	0.5	50	mg/Kg	20	03/02/17 20:56
7440-43-9	Cadmium	0.387	J	0.233	2.91	0.04	0.5	750	mg/Kg	5	03/03/17 16:32
7440-47-3	Chromium	13		0.581	2.91	0.1	0.5	1000	mg/Kg	5	03/03/17 16:32
7439-92-1	Lead	15.1		0.581	2.91	0.1	0.5	2500	mg/Kg	5	03/03/17 16:32
7782-49-2	Selenium	< 0.581	D6,U	0.581	2.91	0.1	0.5	1000	mg/Kg	5	03/03/17 16:32
7440-22-4	Silver	1.21	J	0.116	2.91	0.02	0.5	100	mg/Kg	5	03/03/17 16:32

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/22/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.018		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:10

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
71-55-6	1,1,1-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
79-34-5	1,1,2,2-Tetrachloroet	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
79-00-5	1,1,2-Trichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-34-3	1,1-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
563-58-6	1,1-Dichloropropene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
96-18-4	1,2,3-Trichloropropan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
120-82-1	1,2,4-Trichlorobenzen	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
95-63-6	1,2,4-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
96-12-8	1,2-Dibromo-3-chloro	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
106-93-4	1,2-Dibromoethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
95-50-1	1,2-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
107-06-2	1,2-Dichloroethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
78-87-5	1,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
108-67-8	1,3,5-Trimethylbenze	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
541-73-1	1,3-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
142-28-9	1,3-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
106-46-7	1,4-Dichlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
123-91-1	1,4-Dioxane	< 0.079	U	0.079	0.339	0.075	0.32	1.6	mg/Kg	0.91	02/27/17 17:59
594-20-7	2,2-Dichloropropane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
95-49-8	2-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
106-43-4	4-Chlorotoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
99-87-6	4-Isopropyltoluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
71-43-2	Benzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
108-86-1	Bromobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
74-97-5	Bromochloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-27-4	Bromodichloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-25-2	Bromoform	< 0.00053	U	0.00053	0.005	0.0005	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
74-83-9	Bromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
56-23-5	Carbon tetrachloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
108-90-7	Chlorobenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-00-3	Chloroethane	< 0.003	U,V1	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
67-66-3	Chloroform	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
156-59-2	cis-1,2-Dichloroethyle	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
10061-01-5	cis-1,3-Dichloroprope	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
124-48-1	Dibromochloromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
74-95-3	Dibromomethane	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
100-41-4	Ethylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
98-82-8	Isopropylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
108-38-3&106-4	m- & p-Xylenes	< 0.001	U	0.001	0.011	0.001	0.01	0.1	mg/Kg	0.91	02/27/17 17:59
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-09-2	Methylene chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
91-20-3	Naphthalene	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
104-51-8	n-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
103-65-1	n-Propylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
95-47-6	o-Xylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
135-98-8	sec-Butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
100-42-5	Styrene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
98-06-6	t-butylbenzene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
127-18-4	Tetrachloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
108-88-3	Toluene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
156-60-5	trans-1,2-Dichloroethy	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
10061-02-6	trans-1,3-Dichloropro	< 0.00042	U	0.00042	0.005	0.0004	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
79-01-6	Trichloroethylene	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-69-4	Trichlorofluoromethan	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
75-01-4	Vinyl Chloride	< 0.001	U	0.001	0.005	0.001	0.005	0.05	mg/Kg	0.91	02/27/17 17:59
1330-20-7	Xylenes	< 0.001	U	0.001	0.005	0.001	0.005	0.15	mg/Kg	0.91	02/27/17 17:59
17060-07-0	1,2-Dichloroethane-d4	119					70	130	%	0.91	02/27/17 17:59
1868-53-7	Dibromofluoromethan	99.7					70	130	%	0.91	02/27/17 17:59
2037-26-5	Toluene-d8(surr)	98.4					70	130	%	0.91	02/27/17 17:59
460-00-4	p-Bromofluorobenzen	107					70	130	%	0.91	02/27/17 17:59

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/22/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
95-50-1	1,2-Dichlorobenzene	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
541-73-1	1,3-Dichlorobenzene	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
106-46-7	1,4-Dichlorobenzene	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
95-95-4	2,4,5-Trichlorophenol	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
88-06-2	2,4,6-Trichlorophenol	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
120-83-2	2,4-Dichlorophenol	< 0.140	U	0.140	0.387	0.12	0.333	4	mg/Kg	1	03/02/17 21:55
105-67-9	2,4-Dimethylphenol	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
51-28-5	2,4-Dinitrophenol	< 0.140	U	0.140	0.387	0.12	0.333	4	mg/Kg	1	03/02/17 21:55
121-14-2	2,4-Dinitrotoluene	< 0.01	U	0.01	0.387	0.009	0.333	4	mg/Kg	1	03/02/17 21:55
606-20-2	2,6-Dinitrotoluene	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
91-58-7	2-Chloronaphthalene	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
95-57-8	2-Chlorophenol	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
91-57-6	2-Methylnaphthalene	< 0.349	U	0.349	0.387	0.30	0.333	4	mg/Kg	1	03/02/17 21:55
95-48-7	2-Methylphenol	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
88-75-5	2-Nitrophenol	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
108-39-4 & 106-	3- & 4-Methylphenols	< 0.151	U	0.151	0.776	0.13	0.667	8	mg/Kg	1	03/02/17 21:55
534-52-1	4,6-Dinitro-2-methylp	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
101-55-3	4-Bromophenyl pheny	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
59-50-7	4-Chloro-3-methylphe	< 0.163	U	0.163	0.387	0.14	0.333	4	mg/Kg	1	03/02/17 21:55
7005-72-3	4-Chlorophenyl pheny	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
100-02-7	4-Nitrophenol	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
83-32-9	Acenaphthene	< 0.174	U	0.174	0.387	0.15	0.333	4	mg/Kg	1	03/02/17 21:55
208-96-8	Acenaphthylene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
120-12-7	Anthracene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
56-55-3	Benzo(a)anthracene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
50-32-8	Benzo(a)pyrene	< 0.349	U	0.349	0.387	0.30	0.333	4	mg/Kg	1	03/02/17 21:55
205-99-2	Benzo(b)fluoranthene	< 0.349	U	0.349	0.387	0.30	0.333	4	mg/Kg	1	03/02/17 21:55
191-24-2	Benzo(g,h,i)perylene	< 0.465	U	0.465	0.387	0.40	0.333	4	mg/Kg	1	03/02/17 21:55
207-08-9	Benzo(k)fluoranthene	< 0.174	U	0.174	0.387	0.15	0.333	4	mg/Kg	1	03/02/17 21:55
111-91-1	Bis(2-chloroethoxy) m	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
111-44-4	Bis(2-chloroethyl) eth	< 0.349	U	0.349	0.387	0.30	0.333	4	mg/Kg	1	03/02/17 21:55
108-60-1	Bis(2-chloroisopropyl)	< 0.140	U	0.140	0.387	0.12	0.333	4	mg/Kg	1	03/02/17 21:55
117-81-7	Bis(2-ethylhexyl) phth	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
85-68-7	Butyl benzyl phthalate	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
218-01-9	Chrysene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/22/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
132-64-9	Dibenzofuran	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
84-66-2	Diethyl phthalate	< 0.163	U	0.163	0.387	0.14	0.333	4	mg/Kg	1	03/02/17 21:55
131-11-3	Dimethyl phthalate	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
84-74-2	Di-n-butyl phthalate	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
117-84-0	Di-n-octyl Phthalate	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
206-44-0	Fluoranthene	< 0.198	U	0.198	0.387	0.17	0.333	4	mg/Kg	1	03/02/17 21:55
86-73-7	Fluorene	< 0.186	U	0.186	0.387	0.16	0.333	4	mg/Kg	1	03/02/17 21:55
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.387	0.010	0.333	4	mg/Kg	1	03/02/17 21:55
87-68-3	Hexachlorobutadiene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
77-47-4	Hexachlorocyclopenta	< 0.140	U	0.140	0.387	0.12	0.333	4	mg/Kg	1	03/02/17 21:55
67-72-1	Hexachloroethane	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
193-39-5	Indeno(1,2,3-cd)pyre	< 0.233	U	0.233	0.387	0.20	0.333	4	mg/Kg	1	03/02/17 21:55
78-59-1	Isophorone	< 0.151	U	0.151	0.387	0.13	0.333	4	mg/Kg	1	03/02/17 21:55
91-20-3	Naphthalene	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
98-95-3	Nitrobenzene	< 0.140	U	0.140	0.387	0.12	0.333	4	mg/Kg	1	03/02/17 21:55
62-75-9	N-Nitrosodimethylami	< 0.105	U	0.105	0.387	0.09	0.333	4	mg/Kg	1	03/02/17 21:55
621-64-7	N-nitroso-di-n-propyla	< 0.116	U	0.116	0.387	0.10	0.333	4	mg/Kg	1	03/02/17 21:55
87-86-5	Pentachlorophenol	< 0.163	U	0.163	0.387	0.14	0.333	4	mg/Kg	1	03/02/17 21:55
85-01-8	Phenanthrene	< 0.233	U	0.233	0.387	0.20	0.333	4	mg/Kg	1	03/02/17 21:55
108-95-2	Phenol	< 0.128	U	0.128	0.387	0.11	0.333	4	mg/Kg	1	03/02/17 21:55
129-00-0	Pyrene	< 0.209	U	0.209	0.387	0.18	0.333	4	mg/Kg	1	03/02/17 21:55
118-79-6	2,4,6-Tribromophenol	65.2						10 120	%	1	03/02/17 21:55
13127-88-3	Phenol-d6(surr)	75.4						15 120	%	1	03/02/17 21:55
132-60-8	2-Fluorobiphenyl(surr)	70						30 115	%	1	03/02/17 21:55
1718-51-0	p-Terphenyl-d14(surr)	80.3						30 140	%	1	03/02/17 21:55
367-12-4	2-Fluorophenol(surr)	77.8						20 115	%	1	03/02/17 21:55
4165-60-0	Nitrobenzene-d5(surr)	66.1						20 120	%	1	03/02/17 21:55

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/22/2017 15:00

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.21					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-2 (2-4)
A&B Job Sample ID: 17021401.06

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/22/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 14.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 27.6	U	27.6	29.1	23.7	25	1000	mg/Kg	1	02/28/17 06:24
TPH-1005-2	>C12-C28 ¹	< 23.6	U	23.6	29.1	20.3	25	1000	mg/Kg	1	02/28/17 06:24
TPH-1005-4	>C28-C35 ¹	< 20.6	U	20.6	29.1	17.7	25	1000	mg/Kg	1	02/28/17 06:24
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 06:24
111-85-3	1-Chlorooctane(surr)	96.5					60	143	%	1	02/28/17 06:24
3386-33-2	Chlorooctadecane(sur	100					60	150	%	1	02/28/17 06:24

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/22/2017 15:35

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	17.3					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/22/2017 15:35
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	6.30		0.605	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:35
7440-39-3	Barium	164		2.42	12.1	0.1	0.5	50	mg/Kg	20	03/02/17 21:02
7440-43-9	Cadmium	0.398	J	0.242	3.02	0.04	0.5	750	mg/Kg	5	03/03/17 16:35
7440-47-3	Chromium	16.9		0.605	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:35
7439-92-1	Lead	12		0.605	3.02	0.1	0.5	2500	mg/Kg	5	03/03/17 16:35
7782-49-2	Selenium	< 0.605	D6,U	0.605	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:35
7440-22-4	Silver	0.947	J	0.121	3.02	0.02	0.5	100	mg/Kg	5	03/03/17 16:35

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/22/2017 15:35

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.027		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:12

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 15:35
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
71-55-6	1,1,1-Trichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
79-34-5	1,1,2,2-Tetrachloroet	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
79-00-5	1,1,2-Trichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-34-3	1,1-Dichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
563-58-6	1,1-Dichloropropene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
96-18-4	1,2,3-Trichloropropan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
120-82-1	1,2,4-Trichlorobenzen	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
95-63-6	1,2,4-Trimethylbenze	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
96-12-8	1,2-Dibromo-3-chloro	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
106-93-4	1,2-Dibromoethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
95-50-1	1,2-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
107-06-2	1,2-Dichloroethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
78-87-5	1,2-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
108-67-8	1,3,5-Trimethylbenze	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
541-73-1	1,3-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
142-28-9	1,3-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
106-46-7	1,4-Dichlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
123-91-1	1,4-Dioxane	< 0.051	U	0.051	0.217	0.075	0.32	1.6	mg/Kg	0.56	02/27/17 18:31
594-20-7	2,2-Dichloropropane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
95-49-8	2-Chlorotoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
106-43-4	4-Chlorotoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
99-87-6	4-Isopropyltoluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
71-43-2	Benzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
108-86-1	Bromobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
74-97-5	Bromochloromethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-27-4	Bromodichloromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-25-2	Bromoform	< 0.00034	U	0.00034	0.003	0.0005	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
74-83-9	Bromomethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
56-23-5	Carbon tetrachloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
108-90-7	Chlorobenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
67-66-3	Chloroform	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 15:35
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
156-59-2	cis-1,2-Dichloroethyle	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
10061-01-5	cis-1,3-Dichloroprope	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
124-48-1	Dibromochloromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
74-95-3	Dibromomethane	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
100-41-4	Ethylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
98-82-8	Isopropylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
108-38-3&106-4	m- & p-Xylenes	< 0.00068	U	0.00068	0.007	0.001	0.01	0.1	mg/Kg	0.56	02/27/17 18:31
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-09-2	Methylene chloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
91-20-3	Naphthalene	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
104-51-8	n-Butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
103-65-1	n-Propylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
95-47-6	o-Xylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
135-98-8	sec-Butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
100-42-5	Styrene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
98-06-6	t-butylbenzene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
127-18-4	Tetrachloroethylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
108-88-3	Toluene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
156-60-5	trans-1,2-Dichloroethy	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
10061-02-6	trans-1,3-Dichloropro	< 0.00027	U	0.00027	0.003	0.0004	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
79-01-6	Trichloroethylene	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-69-4	Trichlorofluoromethan	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
75-01-4	Vinyl Chloride	< 0.00068	U	0.00068	0.003	0.001	0.005	0.05	mg/Kg	0.56	02/27/17 18:31
1330-20-7	Xylenes	< 0.00068	U	0.00068	0.003	0.001	0.005	0.15	mg/Kg	0.56	02/27/17 18:31
17060-07-0	1,2-Dichloroethane-d4	119					70	130	%	0.56	02/27/17 18:31
1868-53-7	Dibromofluoromethan	102					70	130	%	0.56	02/27/17 18:31
2037-26-5	Toluene-d8(surr)	99.3					70	130	%	0.56	02/27/17 18:31
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.56	02/27/17 18:31

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/22/2017 15:35

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
95-50-1	1,2-Dichlorobenzene	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
541-73-1	1,3-Dichlorobenzene	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
106-46-7	1,4-Dichlorobenzene	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
95-95-4	2,4,5-Trichlorophenol	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
88-06-2	2,4,6-Trichlorophenol	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
120-83-2	2,4-Dichlorophenol	< 0.145	U	0.145	0.403	0.12	0.333	4	mg/Kg	1	03/02/17 22:22
105-67-9	2,4-Dimethylphenol	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
51-28-5	2,4-Dinitrophenol	< 0.145	U	0.145	0.403	0.12	0.333	4	mg/Kg	1	03/02/17 22:22
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.403	0.009	0.333	4	mg/Kg	1	03/02/17 22:22
606-20-2	2,6-Dinitrotoluene	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
91-58-7	2-Chloronaphthalene	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
95-57-8	2-Chlorophenol	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
91-57-6	2-Methylnaphthalene	< 0.363	U	0.363	0.403	0.30	0.333	4	mg/Kg	1	03/02/17 22:22
95-48-7	2-Methylphenol	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
88-75-5	2-Nitrophenol	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
108-39-4 & 106-	3- & 4-Methylphenols	< 0.157	U	0.157	0.807	0.13	0.667	8	mg/Kg	1	03/02/17 22:22
534-52-1	4,6-Dinitro-2-methylp	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
101-55-3	4-Bromophenyl pheny	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
59-50-7	4-Chloro-3-methylphe	< 0.169	U	0.169	0.403	0.14	0.333	4	mg/Kg	1	03/02/17 22:22
7005-72-3	4-Chlorophenyl pheny	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
100-02-7	4-Nitrophenol	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
83-32-9	Acenaphthene	< 0.181	U	0.181	0.403	0.15	0.333	4	mg/Kg	1	03/02/17 22:22
208-96-8	Acenaphthylene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
120-12-7	Anthracene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
56-55-3	Benzo(a)anthracene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
50-32-8	Benzo(a)pyrene	< 0.363	U	0.363	0.403	0.30	0.333	4	mg/Kg	1	03/02/17 22:22
205-99-2	Benzo(b)fluoranthene	< 0.363	U	0.363	0.403	0.30	0.333	4	mg/Kg	1	03/02/17 22:22
191-24-2	Benzo(g,h,i)perylene	< 0.484	U	0.484	0.403	0.40	0.333	4	mg/Kg	1	03/02/17 22:22
207-08-9	Benzo(k)fluoranthene	< 0.181	U	0.181	0.403	0.15	0.333	4	mg/Kg	1	03/02/17 22:22
111-91-1	Bis(2-chloroethoxy) m	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
111-44-4	Bis(2-chloroethyl) eth	< 0.363	U	0.363	0.403	0.30	0.333	4	mg/Kg	1	03/02/17 22:22
108-60-1	Bis(2-chloroisopropyl)	< 0.145	U	0.145	0.403	0.12	0.333	4	mg/Kg	1	03/02/17 22:22
117-81-7	Bis(2-ethylhexyl) phth	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
85-68-7	Butyl benzyl phthalate	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
218-01-9	Chrysene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/22/2017 15:35

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
132-64-9	Dibenzofuran	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
84-66-2	Diethyl phthalate	< 0.169	U	0.169	0.403	0.14	0.333	4	mg/Kg	1	03/02/17 22:22
131-11-3	Dimethyl phthalate	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
84-74-2	Di-n-butyl phthalate	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
117-84-0	Di-n-octyl Phthalate	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
206-44-0	Fluoranthene	< 0.206	U	0.206	0.403	0.17	0.333	4	mg/Kg	1	03/02/17 22:22
86-73-7	Fluorene	< 0.193	U	0.193	0.403	0.16	0.333	4	mg/Kg	1	03/02/17 22:22
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.403	0.010	0.333	4	mg/Kg	1	03/02/17 22:22
87-68-3	Hexachlorobutadiene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
77-47-4	Hexachlorocyclopenta	< 0.145	U	0.145	0.403	0.12	0.333	4	mg/Kg	1	03/02/17 22:22
67-72-1	Hexachloroethane	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
193-39-5	Indeno(1,2,3-cd)pyre	< 0.242	U	0.242	0.403	0.20	0.333	4	mg/Kg	1	03/02/17 22:22
78-59-1	Isophorone	< 0.157	U	0.157	0.403	0.13	0.333	4	mg/Kg	1	03/02/17 22:22
91-20-3	Naphthalene	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
98-95-3	Nitrobenzene	< 0.145	U	0.145	0.403	0.12	0.333	4	mg/Kg	1	03/02/17 22:22
62-75-9	N-Nitrosodimethylami	< 0.109	U	0.109	0.403	0.09	0.333	4	mg/Kg	1	03/02/17 22:22
621-64-7	N-nitroso-di-n-propyla	< 0.121	U	0.121	0.403	0.10	0.333	4	mg/Kg	1	03/02/17 22:22
87-86-5	Pentachlorophenol	< 0.169	U	0.169	0.403	0.14	0.333	4	mg/Kg	1	03/02/17 22:22
85-01-8	Phenanthrene	< 0.242	U	0.242	0.403	0.20	0.333	4	mg/Kg	1	03/02/17 22:22
108-95-2	Phenol	< 0.133	U	0.133	0.403	0.11	0.333	4	mg/Kg	1	03/02/17 22:22
129-00-0	Pyrene	< 0.218	U	0.218	0.403	0.18	0.333	4	mg/Kg	1	03/02/17 22:22
118-79-6	2,4,6-Tribromophenol	64.6						10 120	%	1	03/02/17 22:22
13127-88-3	Phenol-d6(surr)	72						15 120	%	1	03/02/17 22:22
132-60-8	2-Fluorobiphenyl(surr)	69.9						30 115	%	1	03/02/17 22:22
1718-51-0	p-Terphenyl-d14(surr)	79.5						30 140	%	1	03/02/17 22:22
367-12-4	2-Fluorophenol(surr)	76.9						20 115	%	1	03/02/17 22:22
4165-60-0	Nitrobenzene-d5(surr)	63						20 120	%	1	03/02/17 22:22

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/22/2017 15:35

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.83					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-3 (0-4)
A&B Job Sample ID: 17021401.07

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/22/2017 15:35

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 17.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 28.7	U	28.7	30.2	23.7	25	1000	mg/Kg	1	02/28/17 06:50
TPH-1005-2	>C12-C28 ¹	< 24.5	U	24.5	30.2	20.3	25	1000	mg/Kg	1	02/28/17 06:50
TPH-1005-4	>C28-C35 ¹	< 21.4	U	21.4	30.2	17.7	25	1000	mg/Kg	1	02/28/17 06:50
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 06:50
111-85-3	1-Chlorooctane(surr)	97.5					60	143	%	1	02/28/17 06:50
3386-33-2	Chlorooctadecane(sur	101					60	150	%	1	02/28/17 06:50

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/22/2017 16:15

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	15.7					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/22/2017 16:15
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.45	J	0.593	2.97	0.1	0.5	1000	mg/Kg	5	03/03/17 16:38
7440-39-3	Barium	129		2.37	11.9	0.1	0.5	50	mg/Kg	20	03/02/17 21:09
7440-43-9	Cadmium	0.270	J	0.237	2.97	0.04	0.5	750	mg/Kg	5	03/03/17 16:38
7440-47-3	Chromium	10.2		0.593	2.97	0.1	0.5	1000	mg/Kg	5	03/03/17 16:38
7439-92-1	Lead	4.80		0.593	2.97	0.1	0.5	2500	mg/Kg	5	03/03/17 16:38
7782-49-2	Selenium	< 0.593	D6,U	0.593	2.97	0.1	0.5	1000	mg/Kg	5	03/03/17 16:38
7440-22-4	Silver	0.582	D6, J	0.119	2.97	0.02	0.5	100	mg/Kg	5	03/03/17 16:38

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/22/2017 16:15

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.01		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:15

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 16:15
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
71-55-6	1,1,1-Trichloroethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
79-34-5	1,1,2,2-Tetrachloroet	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
79-00-5	1,1,2-Trichloroethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-34-3	1,1-Dichloroethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
563-58-6	1,1-Dichloropropene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
96-18-4	1,2,3-Trichloropropan	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
120-82-1	1,2,4-Trichlorobenzen	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
95-63-6	1,2,4-Trimethylbenze	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
96-12-8	1,2-Dibromo-3-chloro	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
106-93-4	1,2-Dibromoethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
95-50-1	1,2-Dichlorobenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
107-06-2	1,2-Dichloroethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
78-87-5	1,2-Dichloropropane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
108-67-8	1,3,5-Trimethylbenze	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
541-73-1	1,3-Dichlorobenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
142-28-9	1,3-Dichloropropane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
106-46-7	1,4-Dichlorobenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
123-91-1	1,4-Dioxane	< 0.071	U	0.071	0.304	0.075	0.32	1.6	mg/Kg	0.8	02/27/17 19:03
594-20-7	2,2-Dichloropropane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
95-49-8	2-Chlorotoluene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
106-43-4	4-Chlorotoluene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
99-87-6	4-Isopropyltoluene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
71-43-2	Benzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
108-86-1	Bromobenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
74-97-5	Bromochloromethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-27-4	Bromodichloromethan	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-25-2	Bromoform	< 0.00047	U	0.00047	0.005	0.0005	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
74-83-9	Bromomethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
56-23-5	Carbon tetrachloride	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
108-90-7	Chlorobenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-00-3	Chloroethane	< 0.003	U,V1	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
67-66-3	Chloroform	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/22/2017 16:15
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
156-59-2	cis-1,2-Dichloroethyle	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
10061-01-5	cis-1,3-Dichloroprope	< 0.00038	U	0.00038	0.005	0.0004	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
124-48-1	Dibromochloromethan	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
74-95-3	Dibromomethane	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
100-41-4	Ethylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
98-82-8	Isopropylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
108-38-3&106-4	m- & p-Xylenes	< 0.00095	U	0.00095	0.009	0.001	0.01	0.1	mg/Kg	0.8	02/27/17 19:03
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-09-2	Methylene chloride	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
91-20-3	Naphthalene	< 0.00038	U	0.00038	0.005	0.0004	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
104-51-8	n-Butylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
103-65-1	n-Propylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
95-47-6	o-Xylene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
135-98-8	sec-Butylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
100-42-5	Styrene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
98-06-6	t-butylbenzene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
127-18-4	Tetrachloroethylene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
108-88-3	Toluene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
156-60-5	trans-1,2-Dichloroethy	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
10061-02-6	trans-1,3-Dichloropro	< 0.00038	U	0.00038	0.005	0.0004	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
79-01-6	Trichloroethylene	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-69-4	Trichlorofluoromethan	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
75-01-4	Vinyl Chloride	< 0.00095	U	0.00095	0.005	0.001	0.005	0.05	mg/Kg	0.8	02/27/17 19:03
1330-20-7	Xylenes	< 0.00095	U	0.00095	0.005	0.001	0.005	0.15	mg/Kg	0.8	02/27/17 19:03
17060-07-0	1,2-Dichloroethane-d4	120					70	130	%	0.8	02/27/17 19:03
1868-53-7	Dibromofluoromethan	101					70	130	%	0.8	02/27/17 19:03
2037-26-5	Toluene-d8(surr)	99					70	130	%	0.8	02/27/17 19:03
460-00-4	p-Bromofluorobenzen	109					70	130	%	0.8	02/27/17 19:03

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/22/2017 16:15

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
95-50-1	1,2-Dichlorobenzene	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
541-73-1	1,3-Dichlorobenzene	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
106-46-7	1,4-Dichlorobenzene	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
95-95-4	2,4,5-Trichlorophenol	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
88-06-2	2,4,6-Trichlorophenol	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
120-83-2	2,4-Dichlorophenol	< 0.142	U	0.142	0.395	0.12	0.333	4	mg/Kg	1	03/02/17 22:50
105-67-9	2,4-Dimethylphenol	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
51-28-5	2,4-Dinitrophenol	< 0.142	U	0.142	0.395	0.12	0.333	4	mg/Kg	1	03/02/17 22:50
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.395	0.009	0.333	4	mg/Kg	1	03/02/17 22:50
606-20-2	2,6-Dinitrotoluene	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
91-58-7	2-Chloronaphthalene	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
95-57-8	2-Chlorophenol	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
91-57-6	2-Methylnaphthalene	< 0.356	U	0.356	0.395	0.30	0.333	4	mg/Kg	1	03/02/17 22:50
95-48-7	2-Methylphenol	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
88-75-5	2-Nitrophenol	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
108-39-4 & 106-	3- & 4-Methylphenols	< 0.154	U	0.154	0.791	0.13	0.667	8	mg/Kg	1	03/02/17 22:50
534-52-1	4,6-Dinitro-2-methylp	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
101-55-3	4-Bromophenyl pheny	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
59-50-7	4-Chloro-3-methylphe	< 0.166	U	0.166	0.395	0.14	0.333	4	mg/Kg	1	03/02/17 22:50
7005-72-3	4-Chlorophenyl pheny	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
100-02-7	4-Nitrophenol	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
83-32-9	Acenaphthene	< 0.178	U	0.178	0.395	0.15	0.333	4	mg/Kg	1	03/02/17 22:50
208-96-8	Acenaphthylene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
120-12-7	Anthracene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
56-55-3	Benzo(a)anthracene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
50-32-8	Benzo(a)pyrene	< 0.356	U	0.356	0.395	0.30	0.333	4	mg/Kg	1	03/02/17 22:50
205-99-2	Benzo(b)fluoranthene	< 0.356	U	0.356	0.395	0.30	0.333	4	mg/Kg	1	03/02/17 22:50
191-24-2	Benzo(g,h,i)perylene	< 0.474	U	0.474	0.395	0.40	0.333	4	mg/Kg	1	03/02/17 22:50
207-08-9	Benzo(k)fluoranthene	< 0.178	U	0.178	0.395	0.15	0.333	4	mg/Kg	1	03/02/17 22:50
111-91-1	Bis(2-chloroethoxy) m	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
111-44-4	Bis(2-chloroethyl) eth	< 0.356	U	0.356	0.395	0.30	0.333	4	mg/Kg	1	03/02/17 22:50
108-60-1	Bis(2-chloroisopropyl)	< 0.142	U	0.142	0.395	0.12	0.333	4	mg/Kg	1	03/02/17 22:50
117-81-7	Bis(2-ethylhexyl) phth	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
85-68-7	Butyl benzyl phthalate	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
218-01-9	Chrysene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/22/2017 16:15

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
132-64-9	Dibenzofuran	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
84-66-2	Diethyl phthalate	< 0.166	U	0.166	0.395	0.14	0.333	4	mg/Kg	1	03/02/17 22:50
131-11-3	Dimethyl phthalate	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
84-74-2	Di-n-butyl phthalate	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
117-84-0	Di-n-octyl Phthalate	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
206-44-0	Fluoranthene	< 0.202	U	0.202	0.395	0.17	0.333	4	mg/Kg	1	03/02/17 22:50
86-73-7	Fluorene	< 0.190	U	0.190	0.395	0.16	0.333	4	mg/Kg	1	03/02/17 22:50
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.395	0.010	0.333	4	mg/Kg	1	03/02/17 22:50
87-68-3	Hexachlorobutadiene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
77-47-4	Hexachlorocyclopenta	< 0.142	U	0.142	0.395	0.12	0.333	4	mg/Kg	1	03/02/17 22:50
67-72-1	Hexachloroethane	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
193-39-5	Indeno(1,2,3-cd)pyre	< 0.237	U	0.237	0.395	0.20	0.333	4	mg/Kg	1	03/02/17 22:50
78-59-1	Isophorone	< 0.154	U	0.154	0.395	0.13	0.333	4	mg/Kg	1	03/02/17 22:50
91-20-3	Naphthalene	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
98-95-3	Nitrobenzene	< 0.142	U	0.142	0.395	0.12	0.333	4	mg/Kg	1	03/02/17 22:50
62-75-9	N-Nitrosodimethylami	< 0.107	U	0.107	0.395	0.09	0.333	4	mg/Kg	1	03/02/17 22:50
621-64-7	N-nitroso-di-n-propyla	< 0.119	U	0.119	0.395	0.10	0.333	4	mg/Kg	1	03/02/17 22:50
87-86-5	Pentachlorophenol	< 0.166	U	0.166	0.395	0.14	0.333	4	mg/Kg	1	03/02/17 22:50
85-01-8	Phenanthrene	< 0.237	U	0.237	0.395	0.20	0.333	4	mg/Kg	1	03/02/17 22:50
108-95-2	Phenol	< 0.130	U	0.130	0.395	0.11	0.333	4	mg/Kg	1	03/02/17 22:50
129-00-0	Pyrene	< 0.214	U	0.214	0.395	0.18	0.333	4	mg/Kg	1	03/02/17 22:50
118-79-6	2,4,6-Tribromophenol	52.6						10 120	%	1	03/02/17 22:50
13127-88-3	Phenol-d6(surr)	40						15 120	%	1	03/02/17 22:50
132-60-8	2-Fluorobiphenyl(surr)	50.4						30 115	%	1	03/02/17 22:50
1718-51-0	p-Terphenyl-d14(surr)	70.3						30 140	%	1	03/02/17 22:50
367-12-4	2-Fluorophenol(surr)	44.1						20 115	%	1	03/02/17 22:50
4165-60-0	Nitrobenzene-d5(surr)	41.9						20 120	%	1	03/02/17 22:50

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/22/2017 16:15

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.10					----	----	s.u.		03/03/17 10:28

**LABORATORY TEST RESULTS**

Client Sample ID: ST-4 (2-4)
A&B Job Sample ID: 17021401.08

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/22/2017 16:15

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 15.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 28.1	U	28.1	29.7	23.7	25	1000	mg/Kg	1	02/28/17 07:16
TPH-1005-2	>C12-C28 ¹	< 24.1	U	24.1	29.7	20.3	25	1000	mg/Kg	1	02/28/17 07:16
TPH-1005-4	>C28-C35 ¹	< 21	U	21	29.7	17.7	25	1000	mg/Kg	1	02/28/17 07:16
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 07:16
111-85-3	1-Chlorooctane(surr)	82.5					60	143	%	1	02/28/17 07:16
3386-33-2	Chlorooctadecane(sur	80.5					60	150	%	1	02/28/17 07:16

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 11:30

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	16.5					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 11:30
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.24	J	0.599	2.99	0.1	0.5	1000	mg/Kg	5	03/03/17 16:41
7440-39-3	Barium	222		2.40	12	0.1	0.5	50	mg/Kg	20	03/02/17 21:15
7440-43-9	Cadmium	< 0.240	D6,U	0.240	2.99	0.04	0.5	750	mg/Kg	5	03/03/17 16:41
7440-47-3	Chromium	17.6		0.599	2.99	0.1	0.5	1000	mg/Kg	5	03/03/17 16:41
7439-92-1	Lead	< 0.599	D6,U	0.599	2.99	0.1	0.5	2500	mg/Kg	5	03/03/17 16:41
7782-49-2	Selenium	< 0.599	D6,U	0.599	2.99	0.1	0.5	1000	mg/Kg	5	03/03/17 16:41
7440-22-4	Silver	0.316	D6, J	0.120	2.99	0.02	0.5	100	mg/Kg	5	03/03/17 16:41

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 11:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.006		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:17

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 11:30
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
71-55-6	1,1,1-Trichloroethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
79-34-5	1,1,2,2-Tetrachloroet	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
79-00-5	1,1,2-Trichloroethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-34-3	1,1-Dichloroethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
563-58-6	1,1-Dichloropropene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
96-18-4	1,2,3-Trichloropropan	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
120-82-1	1,2,4-Trichlorobenzen	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
95-63-6	1,2,4-Trimethylbenze	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
96-12-8	1,2-Dibromo-3-chloro	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
106-93-4	1,2-Dibromoethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
95-50-1	1,2-Dichlorobenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
107-06-2	1,2-Dichloroethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
78-87-5	1,2-Dichloropropane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
108-67-8	1,3,5-Trimethylbenze	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
541-73-1	1,3-Dichlorobenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
142-28-9	1,3-Dichloropropane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
106-46-7	1,4-Dichlorobenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
123-91-1	1,4-Dioxane	< 0.042	U	0.042	0.180	0.075	0.32	1.6	mg/Kg	0.47	02/27/17 19:36
594-20-7	2,2-Dichloropropane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
95-49-8	2-Chlorotoluene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
106-43-4	4-Chlorotoluene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
99-87-6	4-Isopropyltoluene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
71-43-2	Benzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
108-86-1	Bromobenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
74-97-5	Bromochloromethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-27-4	Bromodichloromethan	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-25-2	Bromoform	< 0.00028	U	0.00028	0.003	0.0005	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
74-83-9	Bromomethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
56-23-5	Carbon tetrachloride	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
108-90-7	Chlorobenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
67-66-3	Chloroform	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 11:30
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
156-59-2	cis-1,2-Dichloroethyle	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
10061-01-5	cis-1,3-Dichloroprope	< 0.00023	U	0.00023	0.003	0.0004	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
124-48-1	Dibromochloromethan	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
74-95-3	Dibromomethane	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
100-41-4	Ethylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
98-82-8	Isopropylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
108-38-3&106-4	m- & p-Xylenes	< 0.00056	U	0.00056	0.006	0.001	0.01	0.1	mg/Kg	0.47	02/27/17 19:36
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-09-2	Methylene chloride	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
91-20-3	Naphthalene	< 0.00023	U	0.00023	0.003	0.0004	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
104-51-8	n-Butylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
103-65-1	n-Propylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
95-47-6	o-Xylene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
135-98-8	sec-Butylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
100-42-5	Styrene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
98-06-6	t-butylbenzene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
127-18-4	Tetrachloroethylene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
108-88-3	Toluene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
156-60-5	trans-1,2-Dichloroethy	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
10061-02-6	trans-1,3-Dichloropro	< 0.00023	U	0.00023	0.003	0.0004	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
79-01-6	Trichloroethylene	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-69-4	Trichlorofluoromethan	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
75-01-4	Vinyl Chloride	< 0.00056	U	0.00056	0.003	0.001	0.005	0.05	mg/Kg	0.47	02/27/17 19:36
1330-20-7	Xylenes	< 0.00056	U	0.00056	0.003	0.001	0.005	0.15	mg/Kg	0.47	02/27/17 19:36
17060-07-0	1,2-Dichloroethane-d4	121					70	130	%	0.47	02/27/17 19:36
1868-53-7	Dibromofluoromethan	104					70	130	%	0.47	02/27/17 19:36
2037-26-5	Toluene-d8(surr)	98					70	130	%	0.47	02/27/17 19:36
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.47	02/27/17 19:36

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 11:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
95-50-1	1,2-Dichlorobenzene	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
541-73-1	1,3-Dichlorobenzene	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
106-46-7	1,4-Dichlorobenzene	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
95-95-4	2,4,5-Trichlorophenol	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
88-06-2	2,4,6-Trichlorophenol	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
120-83-2	2,4-Dichlorophenol	< 0.144	U	0.144	0.399	0.12	0.333	4	mg/Kg	1	03/02/17 23:17
105-67-9	2,4-Dimethylphenol	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
51-28-5	2,4-Dinitrophenol	< 0.144	U	0.144	0.399	0.12	0.333	4	mg/Kg	1	03/02/17 23:17
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.399	0.009	0.333	4	mg/Kg	1	03/02/17 23:17
606-20-2	2,6-Dinitrotoluene	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
91-58-7	2-Chloronaphthalene	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
95-57-8	2-Chlorophenol	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
91-57-6	2-Methylnaphthalene	< 0.359	U	0.359	0.399	0.30	0.333	4	mg/Kg	1	03/02/17 23:17
95-48-7	2-Methylphenol	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
88-75-5	2-Nitrophenol	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
108-39-4 & 106-	3- & 4-Methylphenols	< 0.156	U	0.156	0.799	0.13	0.667	8	mg/Kg	1	03/02/17 23:17
534-52-1	4,6-Dinitro-2-methylp	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
101-55-3	4-Bromophenyl pheny	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
59-50-7	4-Chloro-3-methylphe	< 0.168	U	0.168	0.399	0.14	0.333	4	mg/Kg	1	03/02/17 23:17
7005-72-3	4-Chlorophenyl pheny	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
100-02-7	4-Nitrophenol	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
83-32-9	Acenaphthene	< 0.180	U	0.180	0.399	0.15	0.333	4	mg/Kg	1	03/02/17 23:17
208-96-8	Acenaphthylene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
120-12-7	Anthracene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
56-55-3	Benzo(a)anthracene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
50-32-8	Benzo(a)pyrene	< 0.359	U	0.359	0.399	0.30	0.333	4	mg/Kg	1	03/02/17 23:17
205-99-2	Benzo(b)fluoranthene	< 0.359	U	0.359	0.399	0.30	0.333	4	mg/Kg	1	03/02/17 23:17
191-24-2	Benzo(g,h,i)perylene	< 0.479	U	0.479	0.399	0.40	0.333	4	mg/Kg	1	03/02/17 23:17
207-08-9	Benzo(k)fluoranthene	< 0.180	U	0.180	0.399	0.15	0.333	4	mg/Kg	1	03/02/17 23:17
111-91-1	Bis(2-chloroethoxy) m	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
111-44-4	Bis(2-chloroethyl) eth	< 0.359	U	0.359	0.399	0.30	0.333	4	mg/Kg	1	03/02/17 23:17
108-60-1	Bis(2-chloroisopropyl)	< 0.144	U	0.144	0.399	0.12	0.333	4	mg/Kg	1	03/02/17 23:17
117-81-7	Bis(2-ethylhexyl) phth	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
85-68-7	Butyl benzyl phthalate	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
218-01-9	Chrysene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 11:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
132-64-9	Dibenzofuran	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
84-66-2	Diethyl phthalate	< 0.168	U	0.168	0.399	0.14	0.333	4	mg/Kg	1	03/02/17 23:17
131-11-3	Dimethyl phthalate	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
84-74-2	Di-n-butyl phthalate	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
117-84-0	Di-n-octyl Phthalate	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
206-44-0	Fluoranthene	< 0.204	U	0.204	0.399	0.17	0.333	4	mg/Kg	1	03/02/17 23:17
86-73-7	Fluorene	< 0.192	U	0.192	0.399	0.16	0.333	4	mg/Kg	1	03/02/17 23:17
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.399	0.010	0.333	4	mg/Kg	1	03/02/17 23:17
87-68-3	Hexachlorobutadiene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
77-47-4	Hexachlorocyclopenta	< 0.144	U	0.144	0.399	0.12	0.333	4	mg/Kg	1	03/02/17 23:17
67-72-1	Hexachloroethane	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
193-39-5	Indeno(1,2,3-cd)pyre	< 0.240	U	0.240	0.399	0.20	0.333	4	mg/Kg	1	03/02/17 23:17
78-59-1	Isophorone	< 0.156	U	0.156	0.399	0.13	0.333	4	mg/Kg	1	03/02/17 23:17
91-20-3	Naphthalene	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
98-95-3	Nitrobenzene	< 0.144	U	0.144	0.399	0.12	0.333	4	mg/Kg	1	03/02/17 23:17
62-75-9	N-Nitrosodimethylami	< 0.108	U	0.108	0.399	0.09	0.333	4	mg/Kg	1	03/02/17 23:17
621-64-7	N-nitroso-di-n-propyla	< 0.120	U	0.120	0.399	0.10	0.333	4	mg/Kg	1	03/02/17 23:17
87-86-5	Pentachlorophenol	< 0.168	U	0.168	0.399	0.14	0.333	4	mg/Kg	1	03/02/17 23:17
85-01-8	Phenanthrene	< 0.240	U	0.240	0.399	0.20	0.333	4	mg/Kg	1	03/02/17 23:17
108-95-2	Phenol	< 0.132	U	0.132	0.399	0.11	0.333	4	mg/Kg	1	03/02/17 23:17
129-00-0	Pyrene	< 0.216	U	0.216	0.399	0.18	0.333	4	mg/Kg	1	03/02/17 23:17
118-79-6	2,4,6-Tribromophenol	71.6						10 120	%	1	03/02/17 23:17
13127-88-3	Phenol-d6(surr)	78.1						15 120	%	1	03/02/17 23:17
132-60-8	2-Fluorobiphenyl(surr)	75.9						30 115	%	1	03/02/17 23:17
1718-51-0	p-Terphenyl-d14(surr)	84.3						30 140	%	1	03/02/17 23:17
367-12-4	2-Fluorophenol(surr)	82.8						20 115	%	1	03/02/17 23:17
4165-60-0	Nitrobenzene-d5(surr)	66.3						20 120	%	1	03/02/17 23:17

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc. Attn: Glenn Lowenstein
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 11:30

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.91					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-1 (4-6)
A&B Job Sample ID: 17021401.09

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 11:30

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 16.5

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 28.4	U	28.4	29.9	23.7	25	1000	mg/Kg	1	02/28/17 07:42
TPH-1005-2	>C12-C28 ¹	< 24.3	U	24.3	29.9	20.3	25	1000	mg/Kg	1	02/28/17 07:42
TPH-1005-4	>C28-C35 ¹	< 21.2	U	21.2	29.9	17.7	25	1000	mg/Kg	1	02/28/17 07:42
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 07:42
111-85-3	1-Chlorooctane(surr)	105					60	143	%	1	02/28/17 07:42
3386-33-2	Chlorooctadecane(sur	105					60	150	%	1	02/28/17 07:42

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	18.3					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 12:00
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	4.57		0.612	3.06	0.1	0.5	1000	mg/Kg	5	03/03/17 16:45
7440-39-3	Barium	178		2.45	12.2	0.1	0.5	50	mg/Kg	20	03/02/17 21:31
7440-43-9	Cadmium	0.268	J	0.245	3.06	0.04	0.5	750	mg/Kg	5	03/03/17 16:45
7440-47-3	Chromium	11.7		0.612	3.06	0.1	0.5	1000	mg/Kg	5	03/03/17 16:45
7439-92-1	Lead	4.64		0.612	3.06	0.1	0.5	2500	mg/Kg	5	03/03/17 16:45
7782-49-2	Selenium	< 0.612	D6,U	0.612	3.06	0.1	0.5	1000	mg/Kg	5	03/03/17 16:45
7440-22-4	Silver	0.809	J	0.122	3.06	0.02	0.5	100	mg/Kg	5	03/03/17 16:45

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.008		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:27

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 12:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
71-55-6	1,1,1-Trichloroethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
79-34-5	1,1,2,2-Tetrachloroet	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
79-00-5	1,1,2-Trichloroethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-34-3	1,1-Dichloroethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
563-58-6	1,1-Dichloropropene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
96-18-4	1,2,3-Trichloropropan	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
120-82-1	1,2,4-Trichlorobenzen	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
95-63-6	1,2,4-Trimethylbenze	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
96-12-8	1,2-Dibromo-3-chloro	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
106-93-4	1,2-Dibromoethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
95-50-1	1,2-Dichlorobenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
107-06-2	1,2-Dichloroethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
78-87-5	1,2-Dichloropropane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
108-67-8	1,3,5-Trimethylbenze	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
541-73-1	1,3-Dichlorobenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
142-28-9	1,3-Dichloropropane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
106-46-7	1,4-Dichlorobenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
123-91-1	1,4-Dioxane	< 0.041	U	0.041	0.176	0.075	0.32	1.6	mg/Kg	0.45	02/27/17 20:08
594-20-7	2,2-Dichloropropane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
95-49-8	2-Chlorotoluene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
106-43-4	4-Chlorotoluene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
99-87-6	4-Isopropyltoluene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
71-43-2	Benzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
108-86-1	Bromobenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
74-97-5	Bromochloromethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-27-4	Bromodichloromethan	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-25-2	Bromoform	< 0.00028	U	0.00028	0.003	0.0005	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
74-83-9	Bromomethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
56-23-5	Carbon tetrachloride	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
108-90-7	Chlorobenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
67-66-3	Chloroform	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 12:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
156-59-2	cis-1,2-Dichloroethyle	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
10061-01-5	cis-1,3-Dichloroprope	< 0.00022	U	0.00022	0.003	0.0004	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
124-48-1	Dibromochloromethan	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
74-95-3	Dibromomethane	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
100-41-4	Ethylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
98-82-8	Isopropylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
108-38-3&106-4	m- & p-Xylenes	< 0.00055	U	0.00055	0.006	0.001	0.01	0.1	mg/Kg	0.45	02/27/17 20:08
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-09-2	Methylene chloride	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
91-20-3	Naphthalene	< 0.00022	U	0.00022	0.003	0.0004	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
104-51-8	n-Butylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
103-65-1	n-Propylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
95-47-6	o-Xylene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
135-98-8	sec-Butylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
100-42-5	Styrene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
98-06-6	t-butylbenzene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
127-18-4	Tetrachloroethylene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
108-88-3	Toluene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
156-60-5	trans-1,2-Dichloroethy	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
10061-02-6	trans-1,3-Dichloropro	< 0.00022	U	0.00022	0.003	0.0004	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
79-01-6	Trichloroethylene	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-69-4	Trichlorofluoromethan	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
75-01-4	Vinyl Chloride	< 0.00055	U	0.00055	0.003	0.001	0.005	0.05	mg/Kg	0.45	02/27/17 20:08
1330-20-7	Xylenes	< 0.00055	U	0.00055	0.003	0.001	0.005	0.15	mg/Kg	0.45	02/27/17 20:08
17060-07-0	1,2-Dichloroethane-d4	117					70	130	%	0.45	02/27/17 20:08
1868-53-7	Dibromofluoromethan	101					70	130	%	0.45	02/27/17 20:08
2037-26-5	Toluene-d8(surr)	99.3					70	130	%	0.45	02/27/17 20:08
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.45	02/27/17 20:08

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
95-50-1	1,2-Dichlorobenzene	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
541-73-1	1,3-Dichlorobenzene	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
106-46-7	1,4-Dichlorobenzene	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
95-95-4	2,4,5-Trichlorophenol	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
88-06-2	2,4,6-Trichlorophenol	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
120-83-2	2,4-Dichlorophenol	< 0.147	U	0.147	0.408	0.12	0.333	4	mg/Kg	1	03/02/17 23:44
105-67-9	2,4-Dimethylphenol	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
51-28-5	2,4-Dinitrophenol	< 0.147	U	0.147	0.408	0.12	0.333	4	mg/Kg	1	03/02/17 23:44
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.408	0.009	0.333	4	mg/Kg	1	03/02/17 23:44
606-20-2	2,6-Dinitrotoluene	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
91-58-7	2-Chloronaphthalene	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
95-57-8	2-Chlorophenol	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
91-57-6	2-Methylnaphthalene	< 0.367	U	0.367	0.408	0.30	0.333	4	mg/Kg	1	03/02/17 23:44
95-48-7	2-Methylphenol	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
88-75-5	2-Nitrophenol	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
108-39-4 & 106-	3- & 4-Methylphenols	< 0.159	U	0.159	0.816	0.13	0.667	8	mg/Kg	1	03/02/17 23:44
534-52-1	4,6-Dinitro-2-methylp	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
101-55-3	4-Bromophenyl pheny	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
59-50-7	4-Chloro-3-methylphe	< 0.171	U	0.171	0.408	0.14	0.333	4	mg/Kg	1	03/02/17 23:44
7005-72-3	4-Chlorophenyl pheny	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
100-02-7	4-Nitrophenol	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
83-32-9	Acenaphthene	< 0.184	U	0.184	0.408	0.15	0.333	4	mg/Kg	1	03/02/17 23:44
208-96-8	Acenaphthylene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
120-12-7	Anthracene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
56-55-3	Benzo(a)anthracene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
50-32-8	Benzo(a)pyrene	< 0.367	U	0.367	0.408	0.30	0.333	4	mg/Kg	1	03/02/17 23:44
205-99-2	Benzo(b)fluoranthene	< 0.367	U	0.367	0.408	0.30	0.333	4	mg/Kg	1	03/02/17 23:44
191-24-2	Benzo(g,h,i)perylene	< 0.490	U	0.490	0.408	0.40	0.333	4	mg/Kg	1	03/02/17 23:44
207-08-9	Benzo(k)fluoranthene	< 0.184	U	0.184	0.408	0.15	0.333	4	mg/Kg	1	03/02/17 23:44
111-91-1	Bis(2-chloroethoxy) m	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
111-44-4	Bis(2-chloroethyl) eth	< 0.367	U	0.367	0.408	0.30	0.333	4	mg/Kg	1	03/02/17 23:44
108-60-1	Bis(2-chloroisopropyl)	< 0.147	U	0.147	0.408	0.12	0.333	4	mg/Kg	1	03/02/17 23:44
117-81-7	Bis(2-ethylhexyl) phth	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
85-68-7	Butyl benzyl phthalate	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
218-01-9	Chrysene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
132-64-9	Dibenzofuran	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
84-66-2	Diethyl phthalate	< 0.171	U	0.171	0.408	0.14	0.333	4	mg/Kg	1	03/02/17 23:44
131-11-3	Dimethyl phthalate	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
84-74-2	Di-n-butyl phthalate	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
117-84-0	Di-n-octyl Phthalate	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
206-44-0	Fluoranthene	< 0.208	U	0.208	0.408	0.17	0.333	4	mg/Kg	1	03/02/17 23:44
86-73-7	Fluorene	< 0.196	U	0.196	0.408	0.16	0.333	4	mg/Kg	1	03/02/17 23:44
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.408	0.010	0.333	4	mg/Kg	1	03/02/17 23:44
87-68-3	Hexachlorobutadiene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
77-47-4	Hexachlorocyclopenta	< 0.147	U	0.147	0.408	0.12	0.333	4	mg/Kg	1	03/02/17 23:44
67-72-1	Hexachloroethane	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
193-39-5	Indeno(1,2,3-cd)pyre	< 0.245	U	0.245	0.408	0.20	0.333	4	mg/Kg	1	03/02/17 23:44
78-59-1	Isophorone	< 0.159	U	0.159	0.408	0.13	0.333	4	mg/Kg	1	03/02/17 23:44
91-20-3	Naphthalene	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
98-95-3	Nitrobenzene	< 0.147	U	0.147	0.408	0.12	0.333	4	mg/Kg	1	03/02/17 23:44
62-75-9	N-Nitrosodimethylami	< 0.110	U	0.110	0.408	0.09	0.333	4	mg/Kg	1	03/02/17 23:44
621-64-7	N-nitroso-di-n-propyla	< 0.122	U	0.122	0.408	0.10	0.333	4	mg/Kg	1	03/02/17 23:44
87-86-5	Pentachlorophenol	< 0.171	U	0.171	0.408	0.14	0.333	4	mg/Kg	1	03/02/17 23:44
85-01-8	Phenanthrene	< 0.245	U	0.245	0.408	0.20	0.333	4	mg/Kg	1	03/02/17 23:44
108-95-2	Phenol	< 0.135	U	0.135	0.408	0.11	0.333	4	mg/Kg	1	03/02/17 23:44
129-00-0	Pyrene	< 0.220	U	0.220	0.408	0.18	0.333	4	mg/Kg	1	03/02/17 23:44
118-79-6	2,4,6-Tribromophenol	66.1						10 120	%	1	03/02/17 23:44
13127-88-3	Phenol-d6(surr)	69.7						15 120	%	1	03/02/17 23:44
132-60-8	2-Fluorobiphenyl(surr)	70.3						30 115	%	1	03/02/17 23:44
1718-51-0	p-Terphenyl-d14(surr)	79.7						30 140	%	1	03/02/17 23:44
367-12-4	2-Fluorophenol(surr)	74.4						20 115	%	1	03/02/17 23:44
4165-60-0	Nitrobenzene-d5(surr)	63						20 120	%	1	03/02/17 23:44

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 12:00

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.06					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-2 (4-6)
A&B Job Sample ID: 17021401.10

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 12:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 18.3

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 11.3	U	11.3	11.9	23.7	25	1000	mg/Kg	0.39	03/03/17 13:46
TPH-1005-2	>C12-C28 ¹	< 9.69	U	9.69	11.9	20.3	25	1000	mg/Kg	0.39	03/03/17 13:46
TPH-1005-4	>C28-C35 ¹	< 8.45	U	8.45	11.9	17.7	25	1000	mg/Kg	0.39	03/03/17 13:46
	Total C6-C35	<					----	----	mg/Kg	0.39	03/03/17 13:46
111-85-3	1-Chlorooctane(surr)	76.5					60	143	%	0.39	03/03/17 13:46
3386-33-2	Chlorooctadecane(sur	78.7					60	150	%	0.39	03/03/17 13:46

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 12:10

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	17.1					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 12:10
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	2.79	J	0.603	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:48
7440-39-3	Barium	85.8		2.41	12.1	0.1	0.5	50	mg/Kg	20	03/02/17 21:37
7440-43-9	Cadmium	< 0.241	D6,U	0.241	3.02	0.04	0.5	750	mg/Kg	5	03/03/17 16:48
7440-47-3	Chromium	10.2		0.603	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:48
7439-92-1	Lead	5.79		0.603	3.02	0.1	0.5	2500	mg/Kg	5	03/03/17 16:48
7782-49-2	Selenium	< 0.603	D6,U	0.603	3.02	0.1	0.5	1000	mg/Kg	5	03/03/17 16:48
7440-22-4	Silver	0.528	D6, J	0.121	3.02	0.02	0.5	100	mg/Kg	5	03/03/17 16:48

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 12:10

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.008		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:29

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 12:10
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
71-55-6	1,1,1-Trichloroethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
79-34-5	1,1,2,2-Tetrachloroet	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
79-00-5	1,1,2-Trichloroethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-34-3	1,1-Dichloroethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-35-4	1,1-Dichloroethylene	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
563-58-6	1,1-Dichloropropene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
87-61-6	1,2,3-trichlorobenzen	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
96-18-4	1,2,3-Trichloropropan	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
120-82-1	1,2,4-Trichlorobenzen	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
95-63-6	1,2,4-Trimethylbenze	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
96-12-8	1,2-Dibromo-3-chloro	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
106-93-4	1,2-Dibromoethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
95-50-1	1,2-Dichlorobenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
107-06-2	1,2-Dichloroethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
78-87-5	1,2-Dichloropropane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
108-67-8	1,3,5-Trimethylbenze	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
541-73-1	1,3-Dichlorobenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
142-28-9	1,3-Dichloropropane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
106-46-7	1,4-Dichlorobenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
123-91-1	1,4-Dioxane	< 0.073	U	0.073	0.313	0.075	0.32	1.6	mg/Kg	0.81	02/27/17 20:41
594-20-7	2,2-Dichloropropane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
95-49-8	2-Chlorotoluene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
106-43-4	4-Chlorotoluene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
99-87-6	4-Isopropyltoluene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
71-43-2	Benzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
108-86-1	Bromobenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
74-97-5	Bromochloromethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-27-4	Bromodichloromethan	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-25-2	Bromoform	< 0.00049	U	0.00049	0.005	0.0005	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
74-83-9	Bromomethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-15-0	Carbon disulfide	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
56-23-5	Carbon tetrachloride	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
108-90-7	Chlorobenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-00-3	Chloroethane	< 0.003	U,V1	0.003	0.005	0.003	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
67-66-3	Chloroform	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 12:10
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
156-59-2	cis-1,2-Dichloroethyle	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
10061-01-5	cis-1,3-Dichloroprope	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
124-48-1	Dibromochloromethan	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
74-95-3	Dibromomethane	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-71-8	Dichlorodifluorometha	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
100-41-4	Ethylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
98-82-8	Isopropylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
108-38-3&106-4	m- & p-Xylenes	< 0.00098	U	0.00098	0.01	0.001	0.01	0.1	mg/Kg	0.81	02/27/17 20:41
78-93-3	MEK	< 0.002	U	0.002	0.005	0.002	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-09-2	Methylene chloride	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
91-20-3	Naphthalene	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
104-51-8	n-Butylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
103-65-1	n-Propylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
95-47-6	o-Xylene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
135-98-8	sec-Butylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
100-42-5	Styrene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
98-06-6	t-butylbenzene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
127-18-4	Tetrachloroethylene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
108-88-3	Toluene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
156-60-5	trans-1,2-Dichloroethy	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
10061-02-6	trans-1,3-Dichloropro	< 0.00039	U	0.00039	0.005	0.0004	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
79-01-6	Trichloroethylene	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-69-4	Trichlorofluoromethan	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
75-01-4	Vinyl Chloride	< 0.00098	U	0.00098	0.005	0.001	0.005	0.05	mg/Kg	0.81	02/27/17 20:41
1330-20-7	Xylenes	< 0.00098	U	0.00098	0.005	0.001	0.005	0.15	mg/Kg	0.81	02/27/17 20:41
17060-07-0	1,2-Dichloroethane-d4	122					70	130	%	0.81	02/27/17 20:41
1868-53-7	Dibromofluoromethan	103					70	130	%	0.81	02/27/17 20:41
2037-26-5	Toluene-d8(surr)	99					70	130	%	0.81	02/27/17 20:41
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.81	02/27/17 20:41

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 12:10

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11
95-50-1	1,2-Dichlorobenzene	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11
541-73-1	1,3-Dichlorobenzene	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11
106-46-7	1,4-Dichlorobenzene	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11
95-95-4	2,4,5-Trichlorophenol	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11
88-06-2	2,4,6-Trichlorophenol	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11
120-83-2	2,4-Dichlorophenol	< 0.145	U	0.145	0.402	0.12	0.333	4	mg/Kg	1	03/03/17 00:11
105-67-9	2,4-Dimethylphenol	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11
51-28-5	2,4-Dinitrophenol	< 0.145	U	0.145	0.402	0.12	0.333	4	mg/Kg	1	03/03/17 00:11
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.402	0.009	0.333	4	mg/Kg	1	03/03/17 00:11
606-20-2	2,6-Dinitrotoluene	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11
91-58-7	2-Chloronaphthalene	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11
95-57-8	2-Chlorophenol	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11
91-57-6	2-Methylnaphthalene	< 0.362	U	0.362	0.402	0.30	0.333	4	mg/Kg	1	03/03/17 00:11
95-48-7	2-Methylphenol	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11
88-75-5	2-Nitrophenol	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11
108-39-4 & 106-	3- & 4-Methylphenols	< 0.157	U	0.157	0.805	0.13	0.667	8	mg/Kg	1	03/03/17 00:11
534-52-1	4,6-Dinitro-2-methylp	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11
101-55-3	4-Bromophenyl pheny	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11
59-50-7	4-Chloro-3-methylphe	< 0.169	U	0.169	0.402	0.14	0.333	4	mg/Kg	1	03/03/17 00:11
7005-72-3	4-Chlorophenyl pheny	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11
100-02-7	4-Nitrophenol	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11
83-32-9	Acenaphthene	< 0.181	U	0.181	0.402	0.15	0.333	4	mg/Kg	1	03/03/17 00:11
208-96-8	Acenaphthylene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11
120-12-7	Anthracene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11
56-55-3	Benzo(a)anthracene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11
50-32-8	Benzo(a)pyrene	< 0.362	U	0.362	0.402	0.30	0.333	4	mg/Kg	1	03/03/17 00:11
205-99-2	Benzo(b)fluoranthene	< 0.362	U	0.362	0.402	0.30	0.333	4	mg/Kg	1	03/03/17 00:11
191-24-2	Benzo(g,h,i)perylene	< 0.483	U	0.483	0.402	0.40	0.333	4	mg/Kg	1	03/03/17 00:11
207-08-9	Benzo(k)fluoranthene	< 0.181	U	0.181	0.402	0.15	0.333	4	mg/Kg	1	03/03/17 00:11
111-91-1	Bis(2-chloroethoxy) m	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11
111-44-4	Bis(2-chloroethyl) eth	< 0.362	U	0.362	0.402	0.30	0.333	4	mg/Kg	1	03/03/17 00:11
108-60-1	Bis(2-chloroisopropyl)	< 0.145	U	0.145	0.402	0.12	0.333	4	mg/Kg	1	03/03/17 00:11
117-81-7	Bis(2-ethylhexyl) phth	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11
85-68-7	Butyl benzyl phthalate	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11
218-01-9	Chrysene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 12:10

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11	
132-64-9	Dibenzofuran	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11	
84-66-2	Diethyl phthalate	< 0.169	U	0.169	0.402	0.14	0.333	4	mg/Kg	1	03/03/17 00:11	
131-11-3	Dimethyl phthalate	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11	
84-74-2	Di-n-butyl phthalate	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11	
117-84-0	Di-n-octyl Phthalate	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11	
206-44-0	Fluoranthene	< 0.205	U	0.205	0.402	0.17	0.333	4	mg/Kg	1	03/03/17 00:11	
86-73-7	Fluorene	< 0.193	U	0.193	0.402	0.16	0.333	4	mg/Kg	1	03/03/17 00:11	
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.402	0.010	0.333	4	mg/Kg	1	03/03/17 00:11	
87-68-3	Hexachlorobutadiene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11	
77-47-4	Hexachlorocyclopenta	< 0.145	U	0.145	0.402	0.12	0.333	4	mg/Kg	1	03/03/17 00:11	
67-72-1	Hexachloroethane	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.241	U	0.241	0.402	0.20	0.333	4	mg/Kg	1	03/03/17 00:11	
78-59-1	Isophorone	< 0.157	U	0.157	0.402	0.13	0.333	4	mg/Kg	1	03/03/17 00:11	
91-20-3	Naphthalene	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11	
98-95-3	Nitrobenzene	< 0.145	U	0.145	0.402	0.12	0.333	4	mg/Kg	1	03/03/17 00:11	
62-75-9	N-Nitrosodimethylami	< 0.109	U	0.109	0.402	0.09	0.333	4	mg/Kg	1	03/03/17 00:11	
621-64-7	N-nitroso-di-n-propyla	< 0.121	U	0.121	0.402	0.10	0.333	4	mg/Kg	1	03/03/17 00:11	
87-86-5	Pentachlorophenol	< 0.169	U	0.169	0.402	0.14	0.333	4	mg/Kg	1	03/03/17 00:11	
85-01-8	Phenanthrene	< 0.241	U	0.241	0.402	0.20	0.333	4	mg/Kg	1	03/03/17 00:11	
108-95-2	Phenol	< 0.133	U	0.133	0.402	0.11	0.333	4	mg/Kg	1	03/03/17 00:11	
129-00-0	Pyrene	< 0.217	U	0.217	0.402	0.18	0.333	4	mg/Kg	1	03/03/17 00:11	
118-79-6	2,4,6-Tribromophenol	53.3						10	120	%	1	03/03/17 00:11
13127-88-3	Phenol-d6(surr)	58.3						15	120	%	1	03/03/17 00:11
132-60-8	2-Fluorobiphenyl(surr)	61.2						30	115	%	1	03/03/17 00:11
1718-51-0	p-Terphenyl-d14(surr)	69.2						30	140	%	1	03/03/17 00:11
367-12-4	2-Fluorophenol(surr)	63.7						20	115	%	1	03/03/17 00:11
4165-60-0	Nitrobenzene-d5(surr)	53.3						20	120	%	1	03/03/17 00:11

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 12:10

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.42					----	----	s.u.		03/03/17 10:28

**LABORATORY TEST RESULTS**

Client Sample ID: SB-3 (4-6)
A&B Job Sample ID: 17021401.11

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 12:10

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 17.1

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 28.6	U	28.6	30.2	23.7	25	1000	mg/Kg	1	02/28/17 10:18
TPH-1005-2	>C12-C28 ¹	< 24.5	U	24.5	30.2	20.3	25	1000	mg/Kg	1	02/28/17 10:18
TPH-1005-4	>C28-C35 ¹	< 21.4	U	21.4	30.2	17.7	25	1000	mg/Kg	1	02/28/17 10:18
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 10:18
111-85-3	1-Chlorooctane(surr)	79.5					60	143	%	1	02/28/17 10:18
3386-33-2	Chlorooctadecane(sur	79.2					60	150	%	1	02/28/17 10:18

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022754

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 14:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	19					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 14:00
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	5.16		0.617	3.09	0.1	0.5	1000	mg/Kg	5	03/03/17 17:00
7440-39-3	Barium	101		2.47	12.3	0.1	0.5	50	mg/Kg	20	03/02/17 21:44
7440-43-9	Cadmium	0.306	J	0.247	3.09	0.04	0.5	750	mg/Kg	5	03/03/17 17:00
7440-47-3	Chromium	12		0.617	3.09	0.1	0.5	1000	mg/Kg	5	03/03/17 17:00
7439-92-1	Lead	4.46		0.617	3.09	0.1	0.5	2500	mg/Kg	5	03/03/17 17:00
7782-49-2	Selenium	< 0.617	D6,U	0.617	3.09	0.1	0.5	1000	mg/Kg	5	03/03/17 17:00
7440-22-4	Silver	0.838	J	0.123	3.09	0.02	0.5	100	mg/Kg	5	03/03/17 17:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 14:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.011		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:32

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 14:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
71-55-6	1,1,1-Trichloroethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
79-34-5	1,1,2,2-Tetrachloroet	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
79-00-5	1,1,2-Trichloroethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-34-3	1,1-Dichloroethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
563-58-6	1,1-Dichloropropene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
96-18-4	1,2,3-Trichloropropan	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
120-82-1	1,2,4-Trichlorobenzen	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
95-63-6	1,2,4-Trimethylbenze	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
96-12-8	1,2-Dibromo-3-chloro	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
106-93-4	1,2-Dibromoethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
95-50-1	1,2-Dichlorobenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
107-06-2	1,2-Dichloroethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
78-87-5	1,2-Dichloropropane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
108-67-8	1,3,5-Trimethylbenze	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
541-73-1	1,3-Dichlorobenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
142-28-9	1,3-Dichloropropane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
106-46-7	1,4-Dichlorobenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
123-91-1	1,4-Dioxane	< 0.04	U	0.04	0.170	0.075	0.32	1.6	mg/Kg	0.43	02/27/17 21:13
594-20-7	2,2-Dichloropropane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
95-49-8	2-Chlorotoluene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
106-43-4	4-Chlorotoluene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
99-87-6	4-Isopropyltoluene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
71-43-2	Benzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
108-86-1	Bromobenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
74-97-5	Bromochloromethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-27-4	Bromodichloromethan	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-25-2	Bromoform	< 0.00027	U	0.00027	0.003	0.0005	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
74-83-9	Bromomethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
56-23-5	Carbon tetrachloride	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
108-90-7	Chlorobenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
67-66-3	Chloroform	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 14:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
156-59-2	cis-1,2-Dichloroethyle	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
10061-01-5	cis-1,3-Dichloroprope	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
124-48-1	Dibromochloromethan	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
74-95-3	Dibromomethane	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
100-41-4	Ethylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
98-82-8	Isopropylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
108-38-3&106-4	m- & p-Xylenes	< 0.00053	U	0.00053	0.005	0.001	0.01	0.1	mg/Kg	0.43	02/27/17 21:13
78-93-3	MEK	0.002	J	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-09-2	Methylene chloride	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
91-20-3	Naphthalene	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
104-51-8	n-Butylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
103-65-1	n-Propylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
95-47-6	o-Xylene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
135-98-8	sec-Butylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
100-42-5	Styrene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
98-06-6	t-butylbenzene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
127-18-4	Tetrachloroethylene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
108-88-3	Toluene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
156-60-5	trans-1,2-Dichloroethy	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
10061-02-6	trans-1,3-Dichloropro	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
79-01-6	Trichloroethylene	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-69-4	Trichlorofluoromethan	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
75-01-4	Vinyl Chloride	< 0.00053	U	0.00053	0.003	0.001	0.005	0.05	mg/Kg	0.43	02/27/17 21:13
1330-20-7	Xylenes	< 0.00053	U	0.00053	0.003	0.001	0.005	0.15	mg/Kg	0.43	02/27/17 21:13
17060-07-0	1,2-Dichloroethane-d4	120					70	130	%	0.43	02/27/17 21:13
1868-53-7	Dibromofluoromethan	102					70	130	%	0.43	02/27/17 21:13
2037-26-5	Toluene-d8(surr)	97.9					70	130	%	0.43	02/27/17 21:13
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.43	02/27/17 21:13

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 14:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
95-50-1	1,2-Dichlorobenzene	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
541-73-1	1,3-Dichlorobenzene	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
106-46-7	1,4-Dichlorobenzene	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
95-95-4	2,4,5-Trichlorophenol	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
88-06-2	2,4,6-Trichlorophenol	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
120-83-2	2,4-Dichlorophenol	< 0.148	U	0.148	0.411	0.12	0.333	4	mg/Kg	1	03/03/17 00:38
105-67-9	2,4-Dimethylphenol	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
51-28-5	2,4-Dinitrophenol	< 0.148	U	0.148	0.411	0.12	0.333	4	mg/Kg	1	03/03/17 00:38
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.411	0.009	0.333	4	mg/Kg	1	03/03/17 00:38
606-20-2	2,6-Dinitrotoluene	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
91-58-7	2-Chloronaphthalene	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
95-57-8	2-Chlorophenol	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
91-57-6	2-Methylnaphthalene	< 0.370	U	0.370	0.411	0.30	0.333	4	mg/Kg	1	03/03/17 00:38
95-48-7	2-Methylphenol	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
88-75-5	2-Nitrophenol	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
108-39-4 & 106-	3- & 4-Methylphenols	< 0.160	U	0.160	0.823	0.13	0.667	8	mg/Kg	1	03/03/17 00:38
534-52-1	4,6-Dinitro-2-methylp	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
101-55-3	4-Bromophenyl pheny	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
59-50-7	4-Chloro-3-methylphe	< 0.173	U	0.173	0.411	0.14	0.333	4	mg/Kg	1	03/03/17 00:38
7005-72-3	4-Chlorophenyl pheny	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
100-02-7	4-Nitrophenol	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
83-32-9	Acenaphthene	< 0.185	U	0.185	0.411	0.15	0.333	4	mg/Kg	1	03/03/17 00:38
208-96-8	Acenaphthylene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
120-12-7	Anthracene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
56-55-3	Benzo(a)anthracene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
50-32-8	Benzo(a)pyrene	< 0.370	U	0.370	0.411	0.30	0.333	4	mg/Kg	1	03/03/17 00:38
205-99-2	Benzo(b)fluoranthene	< 0.370	U	0.370	0.411	0.30	0.333	4	mg/Kg	1	03/03/17 00:38
191-24-2	Benzo(g,h,i)perylene	< 0.494	U	0.494	0.411	0.40	0.333	4	mg/Kg	1	03/03/17 00:38
207-08-9	Benzo(k)fluoranthene	< 0.185	U	0.185	0.411	0.15	0.333	4	mg/Kg	1	03/03/17 00:38
111-91-1	Bis(2-chloroethoxy) m	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
111-44-4	Bis(2-chloroethyl) eth	< 0.370	U	0.370	0.411	0.30	0.333	4	mg/Kg	1	03/03/17 00:38
108-60-1	Bis(2-chloroisopropyl)	< 0.148	U	0.148	0.411	0.12	0.333	4	mg/Kg	1	03/03/17 00:38
117-81-7	Bis(2-ethylhexyl) phth	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
85-68-7	Butyl benzyl phthalate	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
218-01-9	Chrysene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 14:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
132-64-9	Dibenzofuran	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
84-66-2	Diethyl phthalate	< 0.173	U	0.173	0.411	0.14	0.333	4	mg/Kg	1	03/03/17 00:38
131-11-3	Dimethyl phthalate	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
84-74-2	Di-n-butyl phthalate	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
117-84-0	Di-n-octyl Phthalate	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
206-44-0	Fluoranthene	< 0.210	U	0.210	0.411	0.17	0.333	4	mg/Kg	1	03/03/17 00:38
86-73-7	Fluorene	< 0.198	U	0.198	0.411	0.16	0.333	4	mg/Kg	1	03/03/17 00:38
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.411	0.010	0.333	4	mg/Kg	1	03/03/17 00:38
87-68-3	Hexachlorobutadiene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
77-47-4	Hexachlorocyclopenta	< 0.148	U	0.148	0.411	0.12	0.333	4	mg/Kg	1	03/03/17 00:38
67-72-1	Hexachloroethane	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
193-39-5	Indeno(1,2,3-cd)pyre	< 0.247	U	0.247	0.411	0.20	0.333	4	mg/Kg	1	03/03/17 00:38
78-59-1	Isophorone	< 0.160	U	0.160	0.411	0.13	0.333	4	mg/Kg	1	03/03/17 00:38
91-20-3	Naphthalene	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
98-95-3	Nitrobenzene	< 0.148	U	0.148	0.411	0.12	0.333	4	mg/Kg	1	03/03/17 00:38
62-75-9	N-Nitrosodimethylami	< 0.111	U	0.111	0.411	0.09	0.333	4	mg/Kg	1	03/03/17 00:38
621-64-7	N-nitroso-di-n-propyla	< 0.123	U	0.123	0.411	0.10	0.333	4	mg/Kg	1	03/03/17 00:38
87-86-5	Pentachlorophenol	< 0.173	U	0.173	0.411	0.14	0.333	4	mg/Kg	1	03/03/17 00:38
85-01-8	Phenanthrene	< 0.247	U	0.247	0.411	0.20	0.333	4	mg/Kg	1	03/03/17 00:38
108-95-2	Phenol	< 0.136	U	0.136	0.411	0.11	0.333	4	mg/Kg	1	03/03/17 00:38
129-00-0	Pyrene	< 0.222	U	0.222	0.411	0.18	0.333	4	mg/Kg	1	03/03/17 00:38
118-79-6	2,4,6-Tribromophenol	57.8						10 120	%	1	03/03/17 00:38
13127-88-3	Phenol-d6(surr)	64.8						15 120	%	1	03/03/17 00:38
132-60-8	2-Fluorobiphenyl(surr)	68.2						30 115	%	1	03/03/17 00:38
1718-51-0	p-Terphenyl-d14(surr)	78.2						30 140	%	1	03/03/17 00:38
367-12-4	2-Fluorophenol(surr)	68.3						20 115	%	1	03/03/17 00:38
4165-60-0	Nitrobenzene-d5(surr)	57.4						20 120	%	1	03/03/17 00:38

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 14:00

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.88					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-4 (4-6)
A&B Job Sample ID: 17021401.12

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 14:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 19.0

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 29.3	U	29.3	30.9	23.7	25	1000	mg/Kg	1	02/28/17 10:44
TPH-1005-2	>C12-C28 ¹	< 25.1	U	25.1	30.9	20.3	25	1000	mg/Kg	1	02/28/17 10:44
TPH-1005-4	>C28-C35 ¹	< 21.9	U	21.9	30.9	17.7	25	1000	mg/Kg	1	02/28/17 10:44
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 10:44
111-85-3	1-Chlorooctane(surr)	44.1	S2				60	143	%	1	02/28/17 10:44
3386-33-2	Chlorooctadecane(sur	23.3	S2				60	150	%	1	02/28/17 10:44

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022755

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	14.7					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	3.72		0.586	2.93	0.1	0.5	1000	mg/Kg	5	03/03/17 17:04
7440-39-3	Barium	269		2.34	11.7	0.1	0.5	50	mg/Kg	20	03/02/17 21:50
7440-43-9	Cadmium	< 0.234	D6,U	0.234	2.93	0.04	0.5	750	mg/Kg	5	03/03/17 17:04
7440-47-3	Chromium	13.3		0.586	2.93	0.1	0.5	1000	mg/Kg	5	03/03/17 17:04
7439-92-1	Lead	1.11	J	0.586	2.93	0.1	0.5	2500	mg/Kg	5	03/03/17 17:04
7782-49-2	Selenium	< 0.586	D6,U	0.586	2.93	0.1	0.5	1000	mg/Kg	5	03/03/17 17:04
7440-22-4	Silver	0.150	D6, J	0.117	2.93	0.02	0.5	100	mg/Kg	5	03/03/17 17:04

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.01		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:35

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
71-55-6	1,1,1-Trichloroethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
79-34-5	1,1,2,2-Tetrachloroet	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
79-00-5	1,1,2-Trichloroethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-34-3	1,1-Dichloroethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
563-58-6	1,1-Dichloropropene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
96-18-4	1,2,3-Trichloropropan	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
120-82-1	1,2,4-Trichlorobenzen	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
95-63-6	1,2,4-Trimethylbenze	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
96-12-8	1,2-Dibromo-3-chloro	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
106-93-4	1,2-Dibromoethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
95-50-1	1,2-Dichlorobenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
107-06-2	1,2-Dichloroethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
78-87-5	1,2-Dichloropropane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
108-67-8	1,3,5-Trimethylbenze	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
541-73-1	1,3-Dichlorobenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
142-28-9	1,3-Dichloropropane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
106-46-7	1,4-Dichlorobenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
123-91-1	1,4-Dioxane	< 0.039	U	0.039	0.165	0.075	0.32	1.6	mg/Kg	0.44	02/27/17 21:46
594-20-7	2,2-Dichloropropane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
95-49-8	2-Chlorotoluene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
106-43-4	4-Chlorotoluene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
99-87-6	4-Isopropyltoluene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
71-43-2	Benzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
108-86-1	Bromobenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
74-97-5	Bromochloromethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-27-4	Bromodichloromethan	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-25-2	Bromoform	< 0.00026	U	0.00026	0.003	0.0005	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
74-83-9	Bromomethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
56-23-5	Carbon tetrachloride	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
108-90-7	Chlorobenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
67-66-3	Chloroform	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 15:00
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
156-59-2	cis-1,2-Dichloroethyle	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
10061-01-5	cis-1,3-Dichloroprope	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
124-48-1	Dibromochloromethan	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
74-95-3	Dibromomethane	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
100-41-4	Ethylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
98-82-8	Isopropylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
108-38-3&106-4	m- & p-Xylenes	< 0.00052	U	0.00052	0.005	0.001	0.01	0.1	mg/Kg	0.44	02/27/17 21:46
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-09-2	Methylene chloride	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
91-20-3	Naphthalene	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
104-51-8	n-Butylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
103-65-1	n-Propylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
95-47-6	o-Xylene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
135-98-8	sec-Butylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
100-42-5	Styrene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
98-06-6	t-butylbenzene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
127-18-4	Tetrachloroethylene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
108-88-3	Toluene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
156-60-5	trans-1,2-Dichloroethy	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
10061-02-6	trans-1,3-Dichloropro	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
79-01-6	Trichloroethylene	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-69-4	Trichlorofluoromethan	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
75-01-4	Vinyl Chloride	< 0.00052	U	0.00052	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 21:46
1330-20-7	Xylenes	< 0.00052	U	0.00052	0.003	0.001	0.005	0.15	mg/Kg	0.44	02/27/17 21:46
17060-07-0	1,2-Dichloroethane-d4	118					70	130	%	0.44	02/27/17 21:46
1868-53-7	Dibromofluoromethan	103					70	130	%	0.44	02/27/17 21:46
2037-26-5	Toluene-d8(surr)	98.9					70	130	%	0.44	02/27/17 21:46
460-00-4	p-Bromofluorobenzen	108					70	130	%	0.44	02/27/17 21:46

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
95-50-1	1,2-Dichlorobenzene	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
541-73-1	1,3-Dichlorobenzene	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
106-46-7	1,4-Dichlorobenzene	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
95-95-4	2,4,5-Trichlorophenol	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
88-06-2	2,4,6-Trichlorophenol	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
120-83-2	2,4-Dichlorophenol	< 0.141	U	0.141	0.390	0.12	0.333	4	mg/Kg	1	03/03/17 01:06
105-67-9	2,4-Dimethylphenol	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
51-28-5	2,4-Dinitrophenol	< 0.141	U	0.141	0.390	0.12	0.333	4	mg/Kg	1	03/03/17 01:06
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.390	0.009	0.333	4	mg/Kg	1	03/03/17 01:06
606-20-2	2,6-Dinitrotoluene	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
91-58-7	2-Chloronaphthalene	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
95-57-8	2-Chlorophenol	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
91-57-6	2-Methylnaphthalene	< 0.352	U	0.352	0.390	0.30	0.333	4	mg/Kg	1	03/03/17 01:06
95-48-7	2-Methylphenol	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
88-75-5	2-Nitrophenol	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
108-39-4 & 106-	3- & 4-Methylphenols	< 0.152	U	0.152	0.782	0.13	0.667	8	mg/Kg	1	03/03/17 01:06
534-52-1	4,6-Dinitro-2-methylp	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
101-55-3	4-Bromophenyl pheny	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
59-50-7	4-Chloro-3-methylphe	< 0.164	U	0.164	0.390	0.14	0.333	4	mg/Kg	1	03/03/17 01:06
7005-72-3	4-Chlorophenyl pheny	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
100-02-7	4-Nitrophenol	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
83-32-9	Acenaphthene	< 0.176	U	0.176	0.390	0.15	0.333	4	mg/Kg	1	03/03/17 01:06
208-96-8	Acenaphthylene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
120-12-7	Anthracene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
56-55-3	Benzo(a)anthracene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
50-32-8	Benzo(a)pyrene	< 0.352	U	0.352	0.390	0.30	0.333	4	mg/Kg	1	03/03/17 01:06
205-99-2	Benzo(b)fluoranthene	< 0.352	U	0.352	0.390	0.30	0.333	4	mg/Kg	1	03/03/17 01:06
191-24-2	Benzo(g,h,i)perylene	< 0.469	U	0.469	0.390	0.40	0.333	4	mg/Kg	1	03/03/17 01:06
207-08-9	Benzo(k)fluoranthene	< 0.176	U	0.176	0.390	0.15	0.333	4	mg/Kg	1	03/03/17 01:06
111-91-1	Bis(2-chloroethoxy) m	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
111-44-4	Bis(2-chloroethyl) eth	< 0.352	U	0.352	0.390	0.30	0.333	4	mg/Kg	1	03/03/17 01:06
108-60-1	Bis(2-chloroisopropyl)	< 0.141	U	0.141	0.390	0.12	0.333	4	mg/Kg	1	03/03/17 01:06
117-81-7	Bis(2-ethylhexyl) phth	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
85-68-7	Butyl benzyl phthalate	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
218-01-9	Chrysene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
53-70-3	Dibenzo(a,h)anthracene	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
132-64-9	Dibenzofuran	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
84-66-2	Diethyl phthalate	< 0.164	U	0.164	0.390	0.14	0.333	4	mg/Kg	1	03/03/17 01:06
131-11-3	Dimethyl phthalate	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
84-74-2	Di-n-butyl phthalate	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
117-84-0	Di-n-octyl Phthalate	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
206-44-0	Fluoranthene	< 0.199	U	0.199	0.390	0.17	0.333	4	mg/Kg	1	03/03/17 01:06
86-73-7	Fluorene	< 0.188	U	0.188	0.390	0.16	0.333	4	mg/Kg	1	03/03/17 01:06
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.390	0.010	0.333	4	mg/Kg	1	03/03/17 01:06
87-68-3	Hexachlorobutadiene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
77-47-4	Hexachlorocyclopenta	< 0.141	U	0.141	0.390	0.12	0.333	4	mg/Kg	1	03/03/17 01:06
67-72-1	Hexachloroethane	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
193-39-5	Indeno(1,2,3-cd)pyre	< 0.234	U	0.234	0.390	0.20	0.333	4	mg/Kg	1	03/03/17 01:06
78-59-1	Isophorone	< 0.152	U	0.152	0.390	0.13	0.333	4	mg/Kg	1	03/03/17 01:06
91-20-3	Naphthalene	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
98-95-3	Nitrobenzene	< 0.141	U	0.141	0.390	0.12	0.333	4	mg/Kg	1	03/03/17 01:06
62-75-9	N-Nitrosodimethylami	< 0.106	U	0.106	0.390	0.09	0.333	4	mg/Kg	1	03/03/17 01:06
621-64-7	N-nitroso-di-n-propyla	< 0.117	U	0.117	0.390	0.10	0.333	4	mg/Kg	1	03/03/17 01:06
87-86-5	Pentachlorophenol	< 0.164	U	0.164	0.390	0.14	0.333	4	mg/Kg	1	03/03/17 01:06
85-01-8	Phenanthrene	< 0.234	U	0.234	0.390	0.20	0.333	4	mg/Kg	1	03/03/17 01:06
108-95-2	Phenol	< 0.129	U	0.129	0.390	0.11	0.333	4	mg/Kg	1	03/03/17 01:06
129-00-0	Pyrene	< 0.211	U	0.211	0.390	0.18	0.333	4	mg/Kg	1	03/03/17 01:06
118-79-6	2,4,6-Tribromophenol	55						10 120	%	1	03/03/17 01:06
13127-88-3	Phenol-d6(surr)	61.1						15 120	%	1	03/03/17 01:06
132-60-8	2-Fluorobiphenyl(surr)	63.1						30 115	%	1	03/03/17 01:06
1718-51-0	p-Terphenyl-d14(surr)	73.3						30 140	%	1	03/03/17 01:06
367-12-4	2-Fluorophenol(surr)	66.2						20 115	%	1	03/03/17 01:06
4165-60-0	Nitrobenzene-d5(surr)	55.8						20 120	%	1	03/03/17 01:06

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030340

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 15:00

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.79					----	----	s.u.		03/03/17 10:28

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-5 (4-6)
A&B Job Sample ID: 17021401.13

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 15:00

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 14.7

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 27.8	U	27.8	29.3	23.7	25	1000	mg/Kg	1	02/28/17 11:10
TPH-1005-2	>C12-C28 ¹	< 23.8	U	23.8	29.3	20.3	25	1000	mg/Kg	1	02/28/17 11:10
TPH-1005-4	>C28-C35 ¹	< 20.8	U	20.8	29.3	17.7	25	1000	mg/Kg	1	02/28/17 11:10
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 11:10
111-85-3	1-Chlorooctane(surr)	90.4					60	143	%	1	02/28/17 11:10
3386-33-2	Chlorooctadecane(sur	67.7					60	150	%	1	02/28/17 11:10

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **% Moisture**

Analytical Method: SM 2540G

QC Batch ID: Qb17022755

Prep Method: SM 2540G

Prepared By: LEBell

Prep Batch ID: PB17022745

Analyst Initial: LEB

Sample Matrix: Soil

Date Collected: 02/23/2017 15:30

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 15:40

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	% Moisture ¹	17.9					----	----	%	1	02/27/17 16:00

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals**
Analytical Method: SW-846 6010C
QC Batch ID: Qb17030307
Prep Method: SW-846 3050B
Prepared By: Mwisman
Prep Batch ID: PB17030316

Sample Matrix: Soil
Date Collected: 02/23/2017 15:30
Date Received: 02/24/2017 10:42
Date Prepared: 03/01/2017 13:35

Analyst Initial: BRR

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7440-38-2	Arsenic	4.21		0.609	3.05	0.1	0.5	1000	mg/Kg	5	03/03/17 17:07
7440-39-3	Barium	154		2.44	12.2	0.1	0.5	50	mg/Kg	20	03/02/17 21:57
7440-43-9	Cadmium	0.306	J	0.244	3.05	0.04	0.5	750	mg/Kg	5	03/03/17 17:07
7440-47-3	Chromium	13.1		0.609	3.05	0.1	0.5	1000	mg/Kg	5	03/03/17 17:07
7439-92-1	Lead	3.52		0.609	3.05	0.1	0.5	2500	mg/Kg	5	03/03/17 17:07
7782-49-2	Selenium	< 0.609	D6,U	0.609	3.05	0.1	0.5	1000	mg/Kg	5	03/03/17 17:07
7440-22-4	Silver	0.837	J	0.122	3.05	0.02	0.5	100	mg/Kg	5	03/03/17 17:07

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Metals - Mercury**

Analytical Method: SW-846 7470A

QC Batch ID: Qb17030148

Prep Method: SW-846 7470A

Prepared By: JYou

Prep Batch ID: PB17030146

Analyst Initial: CAS

Sample Matrix: Soil

Date Collected: 02/23/2017 15:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:45

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-97-6	Mercury	0.008		0.001	0.005	0.001	0.004	0.2	mg/Kg	1	03/01/17 13:38

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:

Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 15:30
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
630-20-6	1,1,1,2-Tetrachloroet	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
71-55-6	1,1,1-Trichloroethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
79-34-5	1,1,2,2-Tetrachloroet	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
79-00-5	1,1,2-Trichloroethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-34-3	1,1-Dichloroethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-35-4	1,1-Dichloroethylene	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
563-58-6	1,1-Dichloropropene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
87-61-6	1,2,3-trichlorobenzen	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
96-18-4	1,2,3-Trichloropropan	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
120-82-1	1,2,4-Trichlorobenzen	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
95-63-6	1,2,4-Trimethylbenze	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
96-12-8	1,2-Dibromo-3-chloro	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
106-93-4	1,2-Dibromoethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
95-50-1	1,2-Dichlorobenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
107-06-2	1,2-Dichloroethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
78-87-5	1,2-Dichloropropane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
108-67-8	1,3,5-Trimethylbenze	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
541-73-1	1,3-Dichlorobenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
142-28-9	1,3-Dichloropropane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
106-46-7	1,4-Dichlorobenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
123-91-1	1,4-Dioxane	< 0.04	U	0.04	0.171	0.075	0.32	1.6	mg/Kg	0.44	02/27/17 22:18
594-20-7	2,2-Dichloropropane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
95-49-8	2-Chlorotoluene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
106-43-4	4-Chlorotoluene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
99-87-6	4-Isopropyltoluene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
71-43-2	Benzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
108-86-1	Bromobenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
74-97-5	Bromochloromethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-27-4	Bromodichloromethan	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-25-2	Bromoform	< 0.00027	U	0.00027	0.003	0.0005	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
74-83-9	Bromomethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-15-0	Carbon disulfide	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
56-23-5	Carbon tetrachloride	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
108-90-7	Chlorobenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-00-3	Chloroethane	< 0.002	U,V1	0.002	0.003	0.003	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
67-66-3	Chloroform	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description:
Analytical Method: SW-846 8260C
QC Batch ID: Qb17022815
Prep Method: SW-846 5035A
Prepared By: Jdongre
Prep Batch ID: PB17022815

Sample Matrix: Soil
Date Collected: 02/23/2017 15:30
Date Received: 02/24/2017 10:42
Date Prepared: 02/27/2017 12:30

Analyst Initial: JKD

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
74-87-3	Chloromethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
156-59-2	cis-1,2-Dichloroethyle	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
10061-01-5	cis-1,3-Dichloroprope	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
124-48-1	Dibromochloromethan	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
74-95-3	Dibromomethane	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-71-8	Dichlorodifluorometha	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
100-41-4	Ethylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
98-82-8	Isopropylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
108-38-3&106-4	m- & p-Xylenes	< 0.00054	U	0.00054	0.005	0.001	0.01	0.1	mg/Kg	0.44	02/27/17 22:18
78-93-3	MEK	< 0.001	U	0.001	0.003	0.002	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-09-2	Methylene chloride	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
91-20-3	Naphthalene	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
104-51-8	n-Butylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
103-65-1	n-Propylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
95-47-6	o-Xylene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
135-98-8	sec-Butylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
100-42-5	Styrene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
98-06-6	t-butylbenzene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
127-18-4	Tetrachloroethylene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
108-88-3	Toluene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
156-60-5	trans-1,2-Dichloroethy	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
10061-02-6	trans-1,3-Dichloropro	< 0.00021	U	0.00021	0.003	0.0004	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
79-01-6	Trichloroethylene	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-69-4	Trichlorofluoromethan	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
75-01-4	Vinyl Chloride	< 0.00054	U	0.00054	0.003	0.001	0.005	0.05	mg/Kg	0.44	02/27/17 22:18
1330-20-7	Xylenes	< 0.00054	U	0.00054	0.003	0.001	0.005	0.15	mg/Kg	0.44	02/27/17 22:18
17060-07-0	1,2-Dichloroethane-d4	121					70	130	%	0.44	02/27/17 22:18
1868-53-7	Dibromofluoromethan	106					70	130	%	0.44	02/27/17 22:18
2037-26-5	Toluene-d8(surr)	99					70	130	%	0.44	02/27/17 22:18
460-00-4	p-Bromofluorobenzen	109					70	130	%	0.44	02/27/17 22:18

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Sample Matrix: Soil

Date Collected: 02/23/2017 15:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

Analyst Initial: PNS

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
120-82-1	1,2,4-Trichlorobenzen	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33
95-50-1	1,2-Dichlorobenzene	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33
541-73-1	1,3-Dichlorobenzene	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33
106-46-7	1,4-Dichlorobenzene	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33
95-95-4	2,4,5-Trichlorophenol	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33
88-06-2	2,4,6-Trichlorophenol	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33
120-83-2	2,4-Dichlorophenol	< 0.146	U	0.146	0.406	0.12	0.333	4	mg/Kg	1	03/03/17 01:33
105-67-9	2,4-Dimethylphenol	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33
51-28-5	2,4-Dinitrophenol	< 0.146	U	0.146	0.406	0.12	0.333	4	mg/Kg	1	03/03/17 01:33
121-14-2	2,4-Dinitrotoluene	< 0.011	U	0.011	0.406	0.009	0.333	4	mg/Kg	1	03/03/17 01:33
606-20-2	2,6-Dinitrotoluene	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33
91-58-7	2-Chloronaphthalene	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33
95-57-8	2-Chlorophenol	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33
91-57-6	2-Methylnaphthalene	< 0.365	U	0.365	0.406	0.30	0.333	4	mg/Kg	1	03/03/17 01:33
95-48-7	2-Methylphenol	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33
88-75-5	2-Nitrophenol	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33
108-39-4 & 106-	3- & 4-Methylphenols	< 0.158	U	0.158	0.812	0.13	0.667	8	mg/Kg	1	03/03/17 01:33
534-52-1	4,6-Dinitro-2-methylp	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33
101-55-3	4-Bromophenyl pheny	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33
59-50-7	4-Chloro-3-methylphe	< 0.171	U	0.171	0.406	0.14	0.333	4	mg/Kg	1	03/03/17 01:33
7005-72-3	4-Chlorophenyl pheny	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33
100-02-7	4-Nitrophenol	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33
83-32-9	Acenaphthene	< 0.183	U	0.183	0.406	0.15	0.333	4	mg/Kg	1	03/03/17 01:33
208-96-8	Acenaphthylene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33
120-12-7	Anthracene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33
56-55-3	Benzo(a)anthracene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33
50-32-8	Benzo(a)pyrene	< 0.365	U	0.365	0.406	0.30	0.333	4	mg/Kg	1	03/03/17 01:33
205-99-2	Benzo(b)fluoranthene	< 0.365	U	0.365	0.406	0.30	0.333	4	mg/Kg	1	03/03/17 01:33
191-24-2	Benzo(g,h,i)perylene	< 0.487	U	0.487	0.406	0.40	0.333	4	mg/Kg	1	03/03/17 01:33
207-08-9	Benzo(k)fluoranthene	< 0.183	U	0.183	0.406	0.15	0.333	4	mg/Kg	1	03/03/17 01:33
111-91-1	Bis(2-chloroethoxy) m	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33
111-44-4	Bis(2-chloroethyl) eth	< 0.365	U	0.365	0.406	0.30	0.333	4	mg/Kg	1	03/03/17 01:33
108-60-1	Bis(2-chloroisopropyl)	< 0.146	U	0.146	0.406	0.12	0.333	4	mg/Kg	1	03/03/17 01:33
117-81-7	Bis(2-ethylhexyl) phth	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33
85-68-7	Butyl benzyl phthalate	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33
218-01-9	Chrysene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Semivolatile Organic Compounds**

Analytical Method: SW-846 8270D

QC Batch ID: Qb17030309

Prep Method: SW-846 3546

Prepared By: CMPolnick

Prep Batch ID: PB17030110

Analyst Initial: PNS

Sample Matrix: Soil

Date Collected: 02/23/2017 15:30

Date Received: 02/24/2017 10:42

Date Prepared: 03/01/2017 10:00

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time	
53-70-3	Dibenzo(a,h)anthrace	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33	
132-64-9	Dibenzofuran	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33	
84-66-2	Diethyl phthalate	< 0.171	U	0.171	0.406	0.14	0.333	4	mg/Kg	1	03/03/17 01:33	
131-11-3	Dimethyl phthalate	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33	
84-74-2	Di-n-butyl phthalate	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33	
117-84-0	Di-n-octyl Phthalate	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33	
206-44-0	Fluoranthene	< 0.207	U	0.207	0.406	0.17	0.333	4	mg/Kg	1	03/03/17 01:33	
86-73-7	Fluorene	< 0.195	U	0.195	0.406	0.16	0.333	4	mg/Kg	1	03/03/17 01:33	
118-74-1	Hexachlorobenzene	< 0.012	U	0.012	0.406	0.010	0.333	4	mg/Kg	1	03/03/17 01:33	
87-68-3	Hexachlorobutadiene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33	
77-47-4	Hexachlorocyclopenta	< 0.146	U	0.146	0.406	0.12	0.333	4	mg/Kg	1	03/03/17 01:33	
67-72-1	Hexachloroethane	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33	
193-39-5	Indeno(1,2,3-cd)pyre	< 0.244	U	0.244	0.406	0.20	0.333	4	mg/Kg	1	03/03/17 01:33	
78-59-1	Isophorone	< 0.158	U	0.158	0.406	0.13	0.333	4	mg/Kg	1	03/03/17 01:33	
91-20-3	Naphthalene	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33	
98-95-3	Nitrobenzene	< 0.146	U	0.146	0.406	0.12	0.333	4	mg/Kg	1	03/03/17 01:33	
62-75-9	N-Nitrosodimethylami	< 0.110	U	0.110	0.406	0.09	0.333	4	mg/Kg	1	03/03/17 01:33	
621-64-7	N-nitroso-di-n-propyla	< 0.122	U	0.122	0.406	0.10	0.333	4	mg/Kg	1	03/03/17 01:33	
87-86-5	Pentachlorophenol	< 0.171	U	0.171	0.406	0.14	0.333	4	mg/Kg	1	03/03/17 01:33	
85-01-8	Phenanthrene	< 0.244	U	0.244	0.406	0.20	0.333	4	mg/Kg	1	03/03/17 01:33	
108-95-2	Phenol	< 0.134	U	0.134	0.406	0.11	0.333	4	mg/Kg	1	03/03/17 01:33	
129-00-0	Pyrene	< 0.219	U	0.219	0.406	0.18	0.333	4	mg/Kg	1	03/03/17 01:33	
118-79-6	2,4,6-Tribromophenol	67.2						10	120	%	1	03/03/17 01:33
13127-88-3	Phenol-d6(surr)	71.5						15	120	%	1	03/03/17 01:33
132-60-8	2-Fluorobiphenyl(surr)	74.4						30	115	%	1	03/03/17 01:33
1718-51-0	p-Terphenyl-d14(surr)	83.7						30	140	%	1	03/03/17 01:33
367-12-4	2-Fluorophenol(surr)	75.6						20	115	%	1	03/03/17 01:33
4165-60-0	Nitrobenzene-d5(surr)	65.4						20	120	%	1	03/03/17 01:33

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc. Attn: Glenn Lowenstein
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Test Description: **Corrosivity, pH**

Analytical Method: SW-846 9045D

QC Batch ID: Qb17030341

Prep Method:

Prepared By:

Prep Batch ID

Analyst Initial LEB

Sample Matrix Soil

Date Collected 02/23/2017 15:30

Date Received 02/24/2017 10:42

Date Prepared

% Moisture 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
	pH	8.33					----	----	s.u.		03/03/17 10:47

Soil results reported on dry weight basis

**LABORATORY TEST RESULTS**

Client Sample ID: SB-6 (2-4)
A&B Job Sample ID: 17021401.14

Date: 3/6/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170209-01B / 3502 Belfort, Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Petroleum Hydrocarbons**

Analytical Method: TX 1005

QC Batch ID: Qb17030335

Prep Method: TX 1005

Prepared By: AVBembde

Prep Batch ID: PB17030326

Analyst Initial: AVB

Sample Matrix: Soil

Date Collected: 02/23/2017 15:30

Date Received: 02/24/2017 10:42

Date Prepared: 02/27/2017 18:00

% Moisture: 17.9

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12 ¹	< 28.9	U	28.9	30.5	23.7	25	1000	mg/Kg	1	02/28/17 11:36
TPH-1005-2	>C12-C28 ¹	< 24.7	U	24.7	30.5	20.3	25	1000	mg/Kg	1	02/28/17 11:36
TPH-1005-4	>C28-C35 ¹	< 21.6	U	21.6	30.5	17.7	25	1000	mg/Kg	1	02/28/17 11:36
	Total C6-C35	<					----	----	mg/Kg	1	02/28/17 11:36
111-85-3	1-Chlorooctane(surr)	88.9					60	143	%	1	02/28/17 11:36
3386-33-2	Chlorooctadecane(sur)	71.4					60	150	%	1	02/28/17 11:36

Soil results reported on dry weight basis

¹-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : % Moisture	Method : SM 2540G	Reporting Units : %
QC Batch ID : Qb17022754	Created Date : 02/27/17	Created By : LEBell
Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12		
Sample Preparation : PB17022745	Prep Method : SM 2540G	Prep Date : 02/27/17 15:40 Prep By : LEBell

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
% Moisture		< MDL	%	1	----		

QC Type: Duplicate						
QC Sample ID: 17021387.02						
Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
% Moisture	26.8	22.8	%	16.1	20	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : % Moisture **Method :** SM 2540G **Reporting Units :** %

QC Batch ID : Qb17022755 **Created Date :** 02/27/17 **Created By :** LEBell

Samples in This QC Batch : 17021401.13,14

Sample Preparation : PB17022745 **Prep Method :** SM 2540G **Prep Date :** 02/27/17 15:40 **Prep By :** LEBell

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
% Moisture		< MDL	%	1	----		

QC Type: Duplicate

QC Sample ID: 17021401.13

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
% Moisture	16	14.7	%	8.5	20	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb17022815 **Created Date :** 02/27/17 **Created By :** Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

Sample Preparation : PB17022815 **Prep Method :** SW-846 5035A **Prep Date :** 02/27/17 12:30 **Prep By :** Jdongre

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1,2-Tetrachloroethane	630-20-6	< MDL	mg/Kg	1	0.005	0.001	
1,1,1-Trichloroethane	71-55-6	< MDL	mg/Kg	1	0.005	0.001	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/Kg	1	0.005	0.001	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/Kg	1	0.005	0.001	
1,1-Dichloroethane	75-34-3	< MDL	mg/Kg	1	0.005	0.001	
1,1-Dichloroethylene	75-35-4	< MDL	mg/Kg	1	0.005	0.002	
1,1-Dichloropropene	563-58-6	< MDL	mg/Kg	1	0.005	0.001	
1,2,3-trichlorobenzene	87-61-6	< MDL	mg/Kg	1	0.005	0.002	
1,2,3-Trichloropropane	96-18-4	< MDL	mg/Kg	1	0.005	0.001	
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/Kg	1	0.005	0.001	
1,2,4-Trimethylbenzene	95-63-6	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dibromo-3-chloropropa	96-12-8	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dibromoethane	106-93-4	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichloroethane	107-06-2	< MDL	mg/Kg	1	0.005	0.001	
1,2-Dichloropropane	78-87-5	< MDL	mg/Kg	1	0.005	0.001	
1,3,5-Trimethylbenzene	108-67-8	< MDL	mg/Kg	1	0.005	0.001	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/Kg	1	0.005	0.001	
1,3-Dichloropropane	142-28-9	< MDL	mg/Kg	1	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/Kg	1	0.005	0.001	
1,4-Dioxane	123-91-1	< MDL	mg/Kg	1	0.32	0.075	
2,2-Dichloropropane	594-20-7	< MDL	mg/Kg	1	0.005	0.001	
2-Chlorotoluene	95-49-8	< MDL	mg/Kg	1	0.005	0.001	
4-Chlorotoluene	106-43-4	< MDL	mg/Kg	1	0.005	0.001	
4-Isopropyltoluene	99-87-6	< MDL	mg/Kg	1	0.005	0.001	
Benzene	71-43-2	< MDL	mg/Kg	1	0.005	0.001	
Bromobenzene	108-86-1	< MDL	mg/Kg	1	0.005	0.001	
Bromochloromethane	74-97-5	< MDL	mg/Kg	1	0.005	0.001	
Bromodichloromethane	75-27-4	< MDL	mg/Kg	1	0.005	0.001	
Bromoform	75-25-2	< MDL	mg/Kg	1	0.005	0.0005	
Bromomethane	74-83-9	< MDL	mg/Kg	1	0.005	0.001	
Carbon disulfide	75-15-0	< MDL	mg/Kg	1	0.005	0.002	
Carbon tetrachloride	56-23-5	< MDL	mg/Kg	1	0.005	0.001	
Chlorobenzene	108-90-7	< MDL	mg/Kg	1	0.005	0.001	
Chloroethane	75-00-3	< MDL	mg/Kg	1	0.005	0.003	
Chloroform	67-66-3	< MDL	mg/Kg	1	0.005	0.001	
Chloromethane	74-87-3	< MDL	mg/Kg	1	0.005	0.001	
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/Kg	1	0.005	0.001	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb17022815 **Created Date :** 02/27/17 **Created By :** Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/Kg	1	0.005	0.0004		
Dibromochloromethane	124-48-1	< MDL	mg/Kg	1	0.005	0.001		
Dibromomethane	74-95-3	< MDL	mg/Kg	1	0.005	0.001		
Dichlorodifluoromethane	75-71-8	< MDL	mg/Kg	1	0.005	0.002		
Ethylbenzene	100-41-4	< MDL	mg/Kg	1	0.005	0.001		
Isopropylbenzene	98-82-8	< MDL	mg/Kg	1	0.005	0.001		
m- & p-Xylenes	108-38-3&106-42-3	< MDL	mg/Kg	1	0.01	0.001		
MEK	78-93-3	< MDL	mg/Kg	1	0.005	0.002		
Methylene chloride	75-09-2	< MDL	mg/Kg	1	0.005	0.001		
Naphthalene	91-20-3	< MDL	mg/Kg	1	0.005	0.0004		
n-Butylbenzene	104-51-8	< MDL	mg/Kg	1	0.005	0.001		
n-Propylbenzene	103-65-1	< MDL	mg/Kg	1	0.005	0.001		
o-Xylene	95-47-6	< MDL	mg/Kg	1	0.005	0.001		
sec-Butylbenzene	135-98-8	< MDL	mg/Kg	1	0.005	0.001		
Styrene	100-42-5	< MDL	mg/Kg	1	0.005	0.001		
t-butylbenzene	98-06-6	< MDL	mg/Kg	1	0.005	0.001		
Tetrachloroethylene	127-18-4	< MDL	mg/Kg	1	0.005	0.001		
Toluene	108-88-3	< MDL	mg/Kg	1	0.005	0.001		
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/Kg	1	0.005	0.001		
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/Kg	1	0.005	0.0004		
Trichloroethylene	79-01-6	< MDL	mg/Kg	1	0.005	0.001		
Trichlorofluoromethane	75-69-4	< MDL	mg/Kg	1	0.005	0.001		
Vinyl Chloride	75-01-4	< MDL	mg/Kg	1	0.005	0.001		
Xylenes	1330-20-7	< MDL	mg/Kg	1	0.005	0.001		
Dibromofluoromethane(surr)	1868-53-7	95.7	%	1				
1,2-Dichloroethane-d4(surr)	17060-07-0	109	%	1				
Toluene-d8(surr)	2037-26-5	100	%	1				
p-Bromofluorobenzene(surr)	460-00-4	107	%	1				

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.021	105	0.02	0.021	105	0.0	30	71.4-131	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.02	100	0.0	30	69.6-140	
1,1,2,2-Tetrachloroethane	0.02	0.021	105	0.02	0.021	105	0.0	30	66.6-128	
1,1,2-Trichloroethane	0.02	0.022	110	0.02	0.022	110	0.0	30	72.8-125	
1,1-Dichloroethane	0.02	0.022	110	0.02	0.022	110	0.0	30	72.7-129	
1,1-Dichloroethylene	0.02	0.025	125	0.02	0.025	125	0.0	30	71.4-131	
1,1-Dichloropropene	0.02	0.021	105	0.02	0.02	100	4.9	30	75.9-132	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17022815

Created Date : 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,3-trichlorobenzene	0.02	0.021	105	0.02	0.021	105	0.0	30	56.7-153	
1,2,3-Trichloropropane	0.02	0.022	110	0.02	0.022	110	0.0	30	61.6-138	
1,2,4-Trichlorobenzene	0.02	0.022	110	0.02	0.022	110	0.0	30	55.9-150	
1,2,4-Trimethylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	71.1-131	
1,2-Dibromo-3-chloropropa	0.02	0.019	95	0.02	0.02	100	5.1	30	52.4-150	
1,2-Dibromoethane	0.02	0.022	110	0.02	0.022	110	0.0	30	72.9-125	
1,2-Dichlorobenzene	0.02	0.022	110	0.02	0.022	110	0.0	30	76.1-126	
1,2-Dichloroethane	0.02	0.025	125	0.02	0.025	125	0.0	30	66.4-134	
1,2-Dichloropropane	0.02	0.023	115	0.02	0.024	120	4.3	30	70.2-128	
1,3,5-Trimethylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	75.1-127	
1,3-Dichlorobenzene	0.02	0.022	110	0.02	0.022	110	0.0	30	73.9-126	
1,3-Dichloropropane	0.02	0.023	115	0.02	0.023	115	0.0	30	68.3-124	
1,4-Dichlorobenzene	0.02	0.022	110	0.02	0.022	110	0.0	30	72.3-127	
1,4-Dioxane	0.64	0.767	120	0.64	0.778	122	1.4	30	80-120	L1
2,2-Dichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	30	68.5-138	
2-Chlorotoluene	0.02	0.023	115	0.02	0.023	115	0.0	30	71.7-128	
4-Chlorotoluene	0.02	0.023	115	0.02	0.023	115	0.0	30	72.2-126	
4-Isopropyltoluene	0.02	0.024	120	0.02	0.024	120	0.0	30	77.5-125	
Benzene	0.02	0.024	120	0.02	0.024	120	0.0	30	74-126	
Bromobenzene	0.02	0.021	105	0.02	0.022	110	4.7	30	73.3-129	
Bromochloromethane	0.02	0.022	110	0.02	0.022	110	0.0	30	68.8-131	
Bromodichloromethane	0.02	0.023	115	0.02	0.023	115	0.0	30	69-135	
Bromoform	0.02	0.02	100	0.02	0.02	100	0.0	30	62-146	
Bromomethane	0.02	0.026	130	0.02	0.025	125	3.9	30	58.7-139	
Carbon disulfide	0.02	0.026	130	0.02	0.025	125	3.9	30	80-120	L1
Carbon tetrachloride	0.02	0.022	110	0.02	0.022	110	0.0	30	68.7-135	
Chlorobenzene	0.02	0.022	110	0.02	0.022	110	0.0	30	73.3-129	
Chloroethane	0.02	0.03	150	0.02	0.031	155	3.3	30	66.2-129	L1
Chloroform	0.02	0.021	105	0.02	0.021	105	0.0	30	73.7-134	
Chloromethane	0.02	0.021	105	0.02	0.022	110	4.7	30	51.4-135	
cis-1,2-Dichloroethylene	0.02	0.022	110	0.02	0.022	110	0.0	30	72.4-132	
cis-1,3-Dichloropropene	0.02	0.023	115	0.02	0.023	115	0.0	30	67.7-134	
Dibromochloromethane	0.02	0.02	100	0.02	0.02	100	0.0	30	73.2-126	
Dibromomethane	0.02	0.024	120	0.02	0.024	120	0.0	30	69.9-134	
Dichlorodifluoromethane	0.02	0.021	105	0.02	0.022	110	4.7	30	36.8-144	
Ethylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	72.2-128	
Isopropylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	71.2-131	
m- & p-Xylenes	0.04	0.048	120	0.04	0.048	120	0.0	30	70.7-131	
MEK	0.02	0.022	110	0.02	0.021	105	4.7	30	52.5-152	
Methylene chloride	0.02	0.02	100	0.02	0.021	105	4.9	30	70.6-129	
Naphthalene	0.02	0.022	110	0.02	0.022	110	0.0	30	60.7-145	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17022815

Created Date : 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
n-Butylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	66.5-136	
n-Propylbenzene	0.02	0.024	120	0.02	0.024	120	0.0	30	73.3-126	
o-Xylene	0.02	0.023	115	0.02	0.022	110	4.4	30	71.6-130	
sec-Butylbenzene	0.02	0.024	120	0.02	0.024	120	0.0	30	77.9-124	
Styrene	0.02	0.022	110	0.02	0.022	110	0.0	30	71.1-131	
t-butylbenzene	0.02	0.023	115	0.02	0.023	115	0.0	30	74.4-130	
Tetrachloroethylene	0.02	0.023	115	0.02	0.023	115	0.0	30	62.6-157	
Toluene	0.02	0.023	115	0.02	0.023	115	0.0	30	73.3-127	
trans-1,2-Dichloroethylene	0.02	0.022	110	0.02	0.021	105	4.7	30	80-120	
trans-1,3-Dichloropropene	0.02	0.022	110	0.02	0.022	110	0.0	30	71.5-124	
Trichloroethylene	0.02	0.022	110	0.02	0.022	110	0.0	30	69.2-133	
Trichlorofluoromethane	0.02	0.023	115	0.02	0.023	115	0.0	30	63.9-140	
Vinyl Chloride	0.02	0.022	110	0.02	0.021	105	4.7	30	40.9-159	
Xylenes	0.06	0.071	118	0.06	0.07	117	1.4	30	69.2-133	

QC Type: MS and MSD

QC Sample ID: 17021291.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.02	0.017	85	0.02	0.017	85	0.0	35	71.4-131	
1,1,1-Trichloroethane	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	69.6-140	
1,1,2,2-Tetrachloroethane	BRL	0.02	BRL		0.02	BRL			35	66.6-128	M2
1,1,2-Trichloroethane	BRL	0.02	0.012	60	0.02	0.012	60	0.0	35	72.8-125	M9
1,1-Dichloroethane	BRL	0.02	0.022	110	0.02	0.022	110	0.0	35	72.7-129	
1,1-Dichloroethylene	BRL	0.02	0.035	175	0.02	0.036	180	2.8	35	71.4-131	M8
1,1-Dichloropropene	BRL	0.02	0.02	100	0.02	0.021	105	4.9	35	75.9-132	
1,2,3-trichlorobenzene	BRL	0.02	0.012	60	0.02	0.01	50	18.2	35	56.7-153	M9
1,2,3-Trichloropropane	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	61.6-138	
1,2,4-Trichlorobenzene	BRL	0.02	0.011	55	0.02	0.0096	48	13.6	35	55.9-150	M9
1,2,4-Trimethylbenzene	BRL	0.02	0.018	90	0.02	0.016	80	11.8	35	71.1-131	
1,2-Dibromo-3-chloropropa	BRL	0.02	0.01	50	0.02	0.0094	47	6.2	35	52.4-150	M9
1,2-Dibromoethane	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	72.9-125	
1,2-Dichlorobenzene	BRL	0.02	0.017	85	0.02	0.015	75	12.5	35	76.1-126	M9
1,2-Dichloroethane	BRL	0.02	0.024	120	0.02	0.024	120	0.0	35	66.4-134	
1,2-Dichloropropane	BRL	0.02	0.022	110	0.02	0.022	110	0.0	35	70.2-128	
1,3,5-Trimethylbenzene	BRL	0.02	0.018	90	0.02	0.016	80	11.8	35	75.1-127	
1,3-Dichlorobenzene	BRL	0.02	0.016	80	0.02	0.015	75	6.5	35	73.9-126	
1,3-Dichloropropane	BRL	0.02	0.021	105	0.02	0.022	110	4.7	35	68.3-124	
1,4-Dichlorobenzene	BRL	0.02	0.016	80	0.02	0.015	75	6.5	35	72.3-127	
1,4-Dioxane	BRL	0.64	0.876	137	0.64	0.994	155	12.6	35	70-130	M8

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/Kg

QC Batch ID : Qb17022815

Created Date : 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: MS and MSD

QC Sample ID: 17021291.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,2-Dichloropropane	BRL	0.02	0.018	90	0.02	0.018	90	0.0	35	68.5-138	M9
2-Chlorotoluene	BRL	0.02	0.018	90	0.02	0.017	85	5.7	35	71.7-128	
4-Chlorotoluene	BRL	0.02	0.018	90	0.02	0.017	85	5.7	35	72.2-126	
4-Isopropyltoluene	BRL	0.02	0.016	80	0.02	0.014	70	13.3	35	77.5-125	
Benzene	BRL	0.02	0.023	115	0.02	0.023	115	0.0	35	74-126	
Bromobenzene	BRL	0.02	0.017	85	0.02	0.017	85	0.0	35	73.3-129	
Bromochloromethane	BRL	0.02	0.023	115	0.02	0.023	115	0.0	35	68.8-131	
Bromodichloromethane	BRL	0.02	0.019	95	0.02	0.019	95	0.0	35	69-135	
Bromoform	BRL	0.02	0.017	85	0.02	0.017	85	0.0	35	62-146	
Bromomethane	BRL	0.02	0.026	130	0.02	0.025	125	3.9	35	58.7-139	
Carbon disulfide	BRL	0.02	0.023	115	0.02	0.021	105	9.1	35	70-130	M8
Carbon tetrachloride	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	68.7-135	
Chlorobenzene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	35	73.3-129	
Chloroethane	BRL	0.02	0.036	180	0.02	0.032	160	11.8	35	66.2-129	
Chloroform	BRL	0.02	0.021	105	0.02	0.021	105	0.0	35	73.7-134	
Chloromethane	BRL	0.02	0.021	105	0.02	0.02	100	4.9	35	51.4-135	
cis-1,2-Dichloroethylene	BRL	0.02	0.021	105	0.02	0.022	110	4.7	35	72.4-132	
cis-1,3-Dichloropropene	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	67.7-134	
Dibromochloromethane	BRL	0.02	0.016	80	0.02	0.016	80	0.0	35	73.2-126	
Dibromomethane	BRL	0.02	0.023	115	0.02	0.024	120	4.3	35	69.9-134	
Dichlorodifluoromethane	BRL	0.02	0.022	110	0.02	0.022	110	0.0	35	36.8-144	M8
Ethylbenzene	BRL	0.02	0.02	100	0.02	0.019	95	5.1	35	72.2-128	
Isopropylbenzene	BRL	0.02	0.018	90	0.02	0.017	85	5.7	35	71.2-131	
m- & p-Xylenes	BRL	0.039	0.042	108	0.04	0.04	100	4.9	35	70.7-131	
MEK	BRL	0.02	0.031	147	0.02	0.033	157	6.6	35	52.5-152	
Methylene chloride	BRL	0.02	0.02	100	0.02	0.02	100	0.0	35	70.6-129	
Naphthalene	BRL	0.02	0.016	80	0.02	0.015	75	6.5	35	60.7-145	
n-Butylbenzene	BRL	0.02	0.015	75	0.02	0.013	65	14.3	35	66.5-136	
n-Propylbenzene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	35	73.3-126	
o-Xylene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	35	71.6-130	
sec-Butylbenzene	BRL	0.02	0.017	85	0.02	0.015	75	12.5	35	77.9-124	M9
Styrene	BRL	0.02	0.019	95	0.02	0.018	90	5.4	35	71.1-131	
t-butylbenzene	BRL	0.02	0.015	75	0.02	0.013	65	14.3	35	74.4-130	
Tetrachloroethylene	BRL	0.02	0.027	135	0.02	0.026	130	3.8	35	62.6-157	
Toluene	BRL	0.02	0.02	100	0.02	0.021	105	4.9	35	73.3-127	
trans-1,2-Dichloroethylene	BRL	0.02	0.021	105	0.02	0.022	110	4.7	35	70-130	
trans-1,3-Dichloropropene	BRL	0.02	0.019	95	0.02	0.019	95	0.0	35	71.5-124	
Trichloroethylene	BRL	0.02	0.037	185	0.02	0.036	180	2.7	35	69.2-133	
Trichlorofluoromethane	BRL	0.02	0.021	105	0.02	0.012	60	54.5	35	63.9-140	
Vinyl Chloride	BRL	0.02	0.022	110	0.02	0.024	120	8.7	35	40.9-159	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/Kg

QC Batch ID : Qb17022815 **Created Date :** 02/27/17 **Created By :** Jdongre

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: MS and MSD

QC Sample ID: 17021291.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Xylenes	BRL	0.059	0.061	103	0.06	0.058	96.7	5	35	69.2-133	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/L

QC Batch ID : Qb17022816 **Created Date :** 02/27/17 **Created By :** Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

Sample Preparation : PB17022816 **Prep Method :** SW-846 5030C **Prep Date :** 02/27/17 10:45 **Prep By :** Jdongre

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1,2-Tetrachloroethane	630-20-6	< MDL	mg/L	1	0.005	0.001	
1,1,1-Trichloroethane	71-55-6	< MDL	mg/L	1	0.005	0.001	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/L	1	0.005	0.001	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloroethane	75-34-3	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloroethylene	75-35-4	< MDL	mg/L	1	0.005	0.001	
1,1-Dichloropropene	563-58-6	< MDL	mg/L	1	0.005	0.001	
1,2,3-trichlorobenzene	87-61-6	< MDL	mg/L	1	0.005	0.001	
1,2,3-Trichloropropane	96-18-4	< MDL	mg/L	1	0.005	0.001	
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1	0.005	0.001	
1,2,4-Trimethylbenzene	95-63-6	< MDL	mg/L	1	0.005	0.001	
1,2-Dibromo-3-chloropropa	96-12-8	< MDL	mg/L	1	0.005	0.001	
1,2-Dibromoethane	106-93-4	< MDL	mg/L	1	0.005	0.001	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1	0.005	0.001	
1,2-Dichloroethane	107-06-2	< MDL	mg/L	1	0.005	0.001	
1,2-Dichloropropane	78-87-5	< MDL	mg/L	1	0.005	0.001	
1,3,5-Trimethylbenzene	108-67-8	< MDL	mg/L	1	0.005	0.001	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1	0.005	0.001	
1,3-Dichloropropane	142-28-9	< MDL	mg/L	1	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1	0.005	0.001	
1,4-Dioxane	123-91-1	< MDL	mg/L	1	0.32	0.084	
2,2-Dichloropropane	594-20-7	< MDL	mg/L	1	0.005	0.001	
2-Chlorotoluene	95-49-8	< MDL	mg/L	1	0.005	0.001	
4-Chlorotoluene	106-43-4	< MDL	mg/L	1	0.005	0.001	
4-Isopropyltoluene	99-87-6	< MDL	mg/L	1	0.005	0.003	
Benzene	71-43-2	< MDL	mg/L	1	0.005	0.001	
Bromobenzene	108-86-1	< MDL	mg/L	1	0.005	0.001	
Bromochloromethane	74-97-5	< MDL	mg/L	1	0.005	0.001	
Bromodichloromethane	75-27-4	< MDL	mg/L	1	0.005	0.001	
Bromoform	75-25-2	< MDL	mg/L	1	0.005	0.001	
Bromomethane	74-83-9	< MDL	mg/L	1	0.005	0.002	
Carbon disulfide	75-15-0	< MDL	mg/L	1	0.005	0.001	
Carbon tetrachloride	56-23-5	< MDL	mg/L	1	0.005	0.001	
Chlorobenzene	108-90-7	< MDL	mg/L	1	0.005	0.001	
Chloroethane	75-00-3	< MDL	mg/L	1	0.005	0.001	
Chloroform	67-66-3	< MDL	mg/L	1	0.005	0.001	
Chloromethane	74-87-3	< MDL	mg/L	1	0.005	0.001	
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/L	1	0.005	0.001	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022816 **Created Date :** 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/L	1	0.005	0.001	
Dibromochloromethane	124-48-1	< MDL	mg/L	1	0.005	0.001	
Dibromomethane	74-95-3	< MDL	mg/L	1	0.005	0.001	
Dichlorodifluoromethane	75-71-8	< MDL	mg/L	1	0.005	0.003	
Ethylbenzene	100-41-4	< MDL	mg/L	1	0.005	0.001	
Isopropylbenzene	98-82-8	< MDL	mg/L	1	0.005	0.001	
m- & p-Xylenes	108-38-3&106-42-3	< MDL	mg/L	1	0.01	0.002	
MEK	78-93-3	< MDL	mg/L	1	0.005	0.001	
Methylene chloride	75-09-2	< MDL	mg/L	1	0.005	0.001	
Naphthalene	91-20-3	< MDL	mg/L	1	0.005	0.002	
n-Butylbenzene	104-51-8	< MDL	mg/L	1	0.005	0.001	
n-Propylbenzene	103-65-1	< MDL	mg/L	1	0.005	0.001	
o-Xylene	95-47-6	< MDL	mg/L	1	0.005	0.001	
sec-Butylbenzene	135-98-8	< MDL	mg/L	1	0.005	0.001	
Styrene	100-42-5	< MDL	mg/L	1	0.005	0.001	
t-butylbenzene	98-06-6	< MDL	mg/L	1	0.005	0.001	
Tetrachloroethylene	127-18-4	< MDL	mg/L	1	0.005	0.001	
Toluene	108-88-3	< MDL	mg/L	1	0.005	0.001	
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/L	1	0.005	0.001	
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/L	1	0.005	0.001	
Trichloroethylene	79-01-6	< MDL	mg/L	1	0.005	0.001	
Trichlorofluoromethane	75-69-4	< MDL	mg/L	1	0.005	0.001	
Vinyl Chloride	75-01-4	< MDL	mg/L	1	0.005	0.001	
Xylenes	1330-20-7	< MDL	mg/L	1	0.015	0.002	
Dibromofluoromethane(surr)	1868-53-7	108	%	1			
1,2-Dichloroethane-d4(surr)	17060-07-0	106	%	1			
Toluene-d8(surr)	2037-26-5	109	%	1			
p-Bromofluorobenzene(surr)	460-00-4	109	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.021	105	0.02	0.019	95	10	12	82.6-121	
1,1,1-Trichloroethane	0.02	0.02	100	0.02	0.019	95	5.1	13	82.8-123	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0	20	77.5-122	
1,1,2-Trichloroethane	0.02	0.02	100	0.02	0.021	105	4.9	14	81.1-119	
1,1-Dichloroethane	0.02	0.017	85	0.02	0.016	80	6.1	12	74.5-125	
1,1-Dichloroethylene	0.02	0.019	95	0.02	0.018	90	5.4	12	75.4-124	
1,1-Dichloropropene	0.02	0.021	105	0.02	0.019	95	10	12	76.9-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022816 **Created Date :** 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,3-trichlorobenzene	0.02	0.021	105	0.02	0.021	105	0	20	70.8-125	R1
1,2,3-Trichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	22	69.6-126	
1,2,4-Trichlorobenzene	0.02	0.022	110	0.02	0.02	100	9.5	16	74.8-121	
1,2,4-Trimethylbenzene	0.02	0.022	110	0.02	0.019	95	14.6	12	80.4-114	
1,2-Dibromo-3-chloropropa	0.02	0.02	100	0.02	0.018	90	10.5	27	61.7-140	R1
1,2-Dibromoethane	0.02	0.021	105	0.02	0.021	105	0	15	80.6-118	
1,2-Dichlorobenzene	0.02	0.021	105	0.02	0.019	95	10	11	82.6-113	
1,2-Dichloroethane	0.02	0.018	90	0.02	0.018	90	0	14	72.8-126	
1,2-Dichloropropane	0.02	0.02	100	0.02	0.019	95	5.1	13	82.4-120	R1
1,3,5-Trimethylbenzene	0.02	0.022	110	0.02	0.02	100	9.5	10	81.3-114	
1,3-Dichlorobenzene	0.02	0.021	105	0.02	0.019	95	10	11	83.4-113	
1,3-Dichloropropane	0.02	0.019	95	0.02	0.019	95	0	16	79.8-115	
1,4-Dichlorobenzene	0.02	0.021	105	0.02	0.019	95	10	11	82.6-113	R1
1,4-Dioxane	0.64	0.73	114	0.64	0.6	93.8	19.5	30	70-130	
2,2-Dichloropropane	0.02	0.021	105	0.02	0.019	95	10	15	69.4-131	
2-Chlorotoluene	0.02	0.021	105	0.02	0.019	95	10	17	77.8-118	
4-Chlorotoluene	0.02	0.022	110	0.02	0.019	95	14.6	15	78.8-117	R1
4-Isopropyltoluene	0.02	0.022	110	0.02	0.02	100	9.5	11	80.9-114	
Benzene	0.02	0.02	100	0.02	0.018	90	10.5	11	84.1-118	
Bromobenzene	0.02	0.021	105	0.02	0.02	100	4.9	12	82.8-116	
Bromochloromethane	0.02	0.019	95	0.02	0.021	105	10	15	70.7-131	R1
Bromodichloromethane	0.02	0.02	100	0.02	0.019	95	5.1	12	83.1-119	
Bromoform	0.02	0.02	100	0.02	0.019	95	5.1	20	70.3-136	
Bromomethane	0.02	0.022	110	0.02	0.021	105	4.7	23	59-134	
Carbon disulfide	0.02	0.019	95	0.02	0.018	90	5.4	30	70-130	R1
Carbon tetrachloride	0.02	0.022	110	0.02	0.021	105	4.7	13	74.6-129	
Chlorobenzene	0.02	0.02	100	0.02	0.019	95	5.1	11	87.8-110	
Chloroethane	0.02	0.02	100	0.02	0.019	95	5.1	13	73.7-124	
Chloroform	0.02	0.019	95	0.02	0.018	90	5.4	10	76.4-124	R1
Chloromethane	0.02	0.016	80	0.02	0.016	80	0	15	59.4-138	
cis-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.018	90	5.4	15	74.3-124	
cis-1,3-Dichloropropene	0.02	0.021	105	0.02	0.019	95	10	11	84.6-117	
Dibromochloromethane	0.02	0.02	100	0.02	0.019	95	5.1	13	80.3-122	R1
Dibromomethane	0.02	0.02	100	0.02	0.02	100	0	16	75.8-126	
Dichlorodifluoromethane	0.02	0.02	100	0.02	0.019	95	5.1	15	44.4-149	
Ethylbenzene	0.02	0.021	105	0.02	0.019	95	10	12	82.8-114	
Isopropylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	11	86.8-113	R1
m- & p-Xylenes	0.04	0.042	105	0.04	0.04	100	4.9	10	76.9-122	
MEK	0.02	0.021	105	0.02	0.021	105	0	42	44.9-154	
Methylene chloride	0.02	0.019	95	0.02	0.018	90	5.4	13	67.3-130	
Naphthalene	0.02	0.02	100	0.02	0.02	100	0	27	55.8-136	R1

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022816

Created Date : 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
n-Butylbenzene	0.02	0.022	110	0.02	0.02	100	9.5	20	74.1-120	R1
n-Propylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	12	78.9-115	
o-Xylene	0.02	0.021	105	0.02	0.02	100	4.9	11	86-111	
sec-Butylbenzene	0.02	0.022	110	0.02	0.019	95	14.6	12	80.2-115	
Styrene	0.02	0.021	105	0.02	0.019	95	10	12	86.7-111	
t-butylbenzene	0.02	0.022	110	0.02	0.02	100	9.5	14	80.7-116	R1
Tetrachloroethylene	0.02	0.021	105	0.02	0.021	105	0	27	64.2-140	
Toluene	0.02	0.02	100	0.02	0.019	95	5.1	12	85.9-110	
trans-1,2-Dichloroethylene	0.02	0.019	95	0.02	0.017	85	11.1	12	73.7-124	
trans-1,3-Dichloropropene	0.02	0.02	100	0.02	0.019	95	5.1	14	83-114	
Trichloroethylene	0.02	0.021	105	0.02	0.019	95	10	12	85.4-114	R1
Trichlorofluoromethane	0.02	0.019	95	0.02	0.019	95	0	12	74.3-126	
Vinyl Chloride	0.02	0.02	100	0.02	0.019	95	5.1	17	61.8-142	
Xylenes	0.06	0.063	105	0.06	0.06	100	4.9	9	81.2-117	

QC Type: MS and MSD

QC Sample ID: 17021401.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.02	0.02	100						72-139	
1,1,1-Trichloroethane	BRL	0.02	0.02	100						70.6-135	
1,1,2,2-Tetrachloroethane	BRL	0.02	0.019	95						55-149	
1,1,2-Trichloroethane	BRL	0.02	0.02	100						68-139	
1,1-Dichloroethane	BRL	0.02	0.016	80						78-134	
1,1-Dichloroethylene	BRL	0.02	0.018	90						65-141	
1,1-Dichloropropene	BRL	0.02	0.02	100						79-136	
1,2,3-trichlorobenzene	BRL	0.02	0.02	100						54-144	
1,2,3-Trichloropropane	BRL	0.02	0.017	85						58-156	
1,2,4-Trichlorobenzene	BRL	0.02	0.02	100						69-127	
1,2,4-Trimethylbenzene	BRL	0.02	0.02	100						80-131	
1,2-Dibromo-3-chloropropa	BRL	0.02	0.016	80						61-145	
1,2-Dibromoethane	BRL	0.02	0.019	95						68-140	
1,2-Dichlorobenzene	BRL	0.02	0.019	95						70-138	
1,2-Dichloroethane	BRL	0.02	0.02	100						67-152	
1,2-Dichloropropane	BRL	0.02	0.019	95						79-135	
1,3,5-Trimethylbenzene	BRL	0.02	0.02	100						79-133	
1,3-Dichlorobenzene	BRL	0.02	0.019	95						79-128	
1,3-Dichloropropane	BRL	0.02	0.019	95						70-147	
1,4-Dichlorobenzene	BRL	0.02	0.02	100						76-127	
1,4-Dioxane	BRL	0.64	0.548	85.6						70-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb17022816

Created Date : 02/27/17

Created By : Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: MS and MSD

QC Sample ID: 17021401.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,2-Dichloropropane	BRL	0.02	0.019	95						60-129	
2-Chlorotoluene	BRL	0.02	0.02	100						83-130	
4-Chlorotoluene	BRL	0.02	0.02	100						82-129	
4-Isopropyltoluene	BRL	0.02	0.02	100						78-129	
Benzene	BRL	0.02	0.02	100						73-129	
Bromobenzene	BRL	0.02	0.02	100						76-132	
Bromochloromethane	BRL	0.02	0.017	85						76-135	
Bromodichloromethane	BRL	0.02	0.021	105						80-136	
Bromoform	BRL	0.02	0.02	100						65-139	
Bromomethane	BRL	0.02	0.023	115						65-150	
Carbon disulfide	BRL	0.02	0.017	85						70-125	
Carbon tetrachloride	BRL	0.02	0.023	115						70-136	
Chlorobenzene	BRL	0.02	0.02	100						69-123	
Chloroethane	BRL	0.02	0.019	95						74-145	
Chloroform	BRL	0.02	0.02	100						41.8-164	
Chloromethane	BRL	0.02	0.015	75						42.2-160	
cis-1,2-Dichloroethylene	BRL	0.02	0.017	85						71-134	
cis-1,3-Dichloropropene	BRL	0.02	0.021	105						74-128	
Dibromochloromethane	BRL	0.02	0.02	100						67-141	
Dibromomethane	BRL	0.02	0.02	100						63.1-135	
Dichlorodifluoromethane	BRL	0.02	0.019	95						62-146	
Ethylbenzene	BRL	0.02	0.02	100						80-132	
Isopropylbenzene	BRL	0.02	0.021	105						78-137	
m- & p-Xylenes	BRL	0.04	0.042	105						74-127	
MEK	BRL	0.02	0.018	90						52-148	
Methylene chloride	BRL	0.02	0.022	110						68-131	
Naphthalene	BRL	0.02	0.017	85						61-116	
n-Butylbenzene	BRL	0.02	0.02	100						73-140	
n-Propylbenzene	BRL	0.02	0.019	95						75-127	
o-Xylene	BRL	0.02	0.021	105						74-126	
sec-Butylbenzene	BRL	0.02	0.019	95						75-129	
Styrene	BRL	0.02	0.021	105						77-123	
t-butylbenzene	BRL	0.02	0.019	95						75-126	
Tetrachloroethylene	BRL	0.02	0.022	110						27.6-194	
Toluene	BRL	0.02	0.019	95						72-121	
trans-1,2-Dichloroethylene	BRL	0.02	0.018	90						73-138	
trans-1,3-Dichloropropene	BRL	0.02	0.019	95						66-131	
Trichloroethylene	BRL	0.02	0.021	105						6-138	
Trichlorofluoromethane	BRL	0.02	0.021	105						67-148	
Vinyl Chloride	BRL	0.02	0.017	85						59.4-140	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Volatile Organic Compounds **Method :** SW-846 8260C **Reporting Units :** mg/L

QC Batch ID : Qb17022816 **Created Date :** 02/27/17 **Created By :** Jdongre

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: MS and MSD											
QC Sample ID: 17021401.01											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Xylenes	BRL	0.06	0.063	105						73-127	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Total Petroleum Hydrocarbons Method : TX 1005 Reporting Units : mg/L

QC Batch ID : Qb17030112 Created Date : 02/27/17 Created By : AVBembde

Samples in This QC Batch : 17021401.01,02,03,04

Sample Preparation : PB17030107 Prep Method : TX 1005 Prep Date : 02/27/17 10:00 Prep By : AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1	1.5	0.66	
>C12-C28	TPH-1005-2	< MDL	mg/L	1	1.5	0.86	
>C28-C35	TPH-1005-4	< MDL	mg/L	1	1.5	0.75	
Total C6-C35		< MDL	mg/L	1	----		
1-Chlorooctane(surr)	111-85-3	88.8	%	1			
Chlorooctadecane(surr)	3386-33-2	90.1	%	1			

QC Type: Duplicate

QC Sample ID: 17021379.07

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L		30	
>C28-C35	BRL	BRL	mg/L		30	
C6-C12	BRL	BRL	mg/L		30	
Total C6-C35	BRL	BRL	mg/L		30	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	30	23.6	78.7	30	22.7	75.7	3.9	20	75-125	
>C12-C28	30	28.3	94.3	30	26.1	87	8.1	20	75-125	
>C28-C35	30	32.5	108	30	30.7	102	5.7	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Total Metals - Mercury **Method :** SW-846 7470A **Reporting Units :** mg/Kg

QC Batch ID : Qb17030148 **Created Date :** 03/01/17 **Created By :** csmith

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

Digestion : PB17030146 **Prep Method :** SW-846 7470A **Prep Date :** 03/01/17 10:45 **Prep By :** JYou

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Mercury	7439-97-6	< MDL	mg/Kg	1	0.004	0.001	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.1	0.08313	83.1	0.1	0.08821	88.2	5.9	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17021401.05

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	0.00747	0.1	0.10410	96.6						70-130	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Dissolved Metals **Method :** EPA 200.7 **Reporting Units :** mg/L

QC Batch ID : Qb17030171 **Created Date :** 03/01/17 **Created By :** BRena

Samples in This QC Batch : 17021401.01,02,03,04

Digestion : PB17030170 **Prep Method :** EPA 200.7 **Prep Date :** 03/01/17 09:00 **Prep By :** BRena

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	ML	MDL		Qual
Arsenic	7440-38-2	< MDL	mg/L	1	0.02	0.004		
Barium	7440-39-3	< MDL	mg/L	1	0.02	0.004		
Cadmium	7440-43-9	< MDL	mg/L	1	0.02	0.002		
Chromium	7440-47-3	< MDL	mg/L	1	0.02	0.004		
Lead	7439-92-1	< MDL	mg/L	1	0.02	0.004		
Selenium	7782-49-2	< MDL	mg/L	1	0.02	0.004		
Silver	7440-22-4	< MDL	mg/L	1	0.02	0.001		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	1	0.962	96.2	1	0.969	96.9	0.7	20	80-120	
Barium	1	0.963	96.3	1	0.966	96.6	0.3	20	80-120	
Cadmium	1	0.977	97.7	1	0.978	97.8	0.1	20	80-120	
Chromium	1	0.981	98.1	1	0.982	98.2	0.1	20	80-120	
Lead	1	0.965	96.5	1	0.970	97	0.5	20	80-120	
Selenium	1	0.963	96.3	1	0.968	96.8	0.5	20	80-120	
Silver	1	0.990	99	1	0.989	98.9	0.1	20	80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Total Recoverable Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID : Qb17030307 **Created Date :** 03/02/17 **Created By :** BRena

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

Digestion : PB17030316 **Prep Method :** SW-846 3050B **Prep Date :** 03/01/17 13:35 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Arsenic	7440-38-2	< MDL	mg/Kg	1	0.5	0.1		
Barium	7440-39-3	< MDL	mg/Kg	1	0.5	0.1		
Cadmium	7440-43-9	< MDL	mg/Kg	1	0.5	0.04		
Chromium	7440-47-3	< MDL	mg/Kg	1	0.5	0.1		
Lead	7439-92-1	< MDL	mg/Kg	1	0.5	0.1		
Selenium	7782-49-2	< MDL	mg/Kg	1	0.5	0.1		
Silver	7440-22-4	< MDL	mg/Kg	1	0.5	0.02		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	21.949	87.8	25	22.537	90.1	2.6	20	80-120	
Barium	25	23.911	95.6	25	24.274	97.1	1.5	20	80-120	
Cadmium	25	21.948	87.8	25	22.368	89.5	1.9	20	80-120	
Chromium	25	23.211	92.8	25	23.691	94.8	2.1	20	80-120	
Lead	25	22.795	91.2	25	23.300	93.2	2.2	20	80-120	
Selenium	25	24.323	97.3	25	24.510	98	0.8	20	80-120	
Silver	25	22.270	89.1	25	22.709	90.8	2	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17021401.05

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	2.333	125	23.018	16.5						70-130	M2
Barium	111.385	125	127.687	13						70-130	M2
Cadmium	0.233	125	21.368	16.9						70-130	M2
Chromium	8.571	125	29.867	17						70-130	M2
Lead	3.503	125	27.034	18.8						70-130	M2
Selenium	BRL	125	17.182	13.7						70-130	M2
Silver	BRL	125	21.547	17.2						70-130	M2

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17030309 **Created Date :** 03/03/17 **Created By :** Psaraiya

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

Extraction : PB17030110 **Prep Method :** SW-846 3546 **Prep Date :** 03/01/17 10:00 **Prep By :** CMPolnick

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/Kg	1	0.333	0.16	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/Kg	1	0.333	0.11	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/Kg	1	0.333	0.09	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/Kg	1	0.333	0.09	
2,4,5-Trichlorophenol	95-95-4	< MDL	mg/Kg	1	0.333	0.13	
2,4,6-Trichlorophenol	88-06-2	< MDL	mg/Kg	1	0.333	0.16	
2,4-Dichlorophenol	120-83-2	< MDL	mg/Kg	1	0.333	0.12	
2,4-Dimethylphenol	105-67-9	< MDL	mg/Kg	1	0.333	0.09	
2,4-Dinitrophenol	51-28-5	< MDL	mg/Kg	1	0.333	0.12	
2,4-Dinitrotoluene	121-14-2	< MDL	mg/Kg	1	0.333	0.009	
2,6-Dinitrotoluene	606-20-2	< MDL	mg/Kg	1	0.333	0.11	
2-Chloronaphthalene	91-58-7	< MDL	mg/Kg	1	0.333	0.13	
2-Chlorophenol	95-57-8	< MDL	mg/Kg	1	0.333	0.10	
2-Methylnaphthalene	91-57-6	< MDL	mg/Kg	1	0.333	0.30	
2-Methylphenol	95-48-7	< MDL	mg/Kg	1	0.333	0.09	
2-Nitrophenol	88-75-5	< MDL	mg/Kg	1	0.333	0.09	
3- & 4-Methylphenols	108-39-4 & 106-44-5	< MDL	mg/Kg	1	0.667	0.13	
4,6-Dinitro-2-methylphenol	534-52-1	< MDL	mg/Kg	1	0.333	0.16	
4-Bromophenyl phenyl ethe	101-55-3	< MDL	mg/Kg	1	0.333	0.16	
4-Chloro-3-methylphenol	59-50-7	< MDL	mg/Kg	1	0.333	0.14	
4-Chlorophenyl phenyl ethe	7005-72-3	< MDL	mg/Kg	1	0.333	0.11	
4-Nitrophenol	100-02-7	< MDL	mg/Kg	1	0.333	0.13	
Acenaphthene	83-32-9	< MDL	mg/Kg	1	0.333	0.15	
Acenaphthylene	208-96-8	< MDL	mg/Kg	1	0.333	0.10	
Anthracene	120-12-7	< MDL	mg/Kg	1	0.333	0.10	
Benzo(a)anthracene	56-55-3	< MDL	mg/Kg	1	0.333	0.10	
Benzo(a)pyrene	50-32-8	< MDL	mg/Kg	1	0.333	0.30	
Benzo(b)fluoranthene	205-99-2	< MDL	mg/Kg	1	0.333	0.30	
Benzo(g,h,i)perylene	191-24-2	< MDL	mg/Kg	1	0.333	0.40	
Benzo(k)fluoranthene	207-08-9	< MDL	mg/Kg	1	0.333	0.15	
Bis(2-chloroethoxy) methan	111-91-1	< MDL	mg/Kg	1	0.333	0.10	
Bis(2-chloroethyl) ether	111-44-4	< MDL	mg/Kg	1	0.333	0.30	
Bis(2-chloroisopropyl) ether	108-60-1	< MDL	mg/Kg	1	0.333	0.12	
Bis(2-ethylhexyl)phthalate	117-81-7	< MDL	mg/Kg	1	0.333	0.13	
Butyl benzyl phthalate	85-68-7	< MDL	mg/Kg	1	0.333	0.11	
Chrysene	218-01-9	< MDL	mg/Kg	1	0.333	0.10	
Dibenzo(a,h)anthracene	53-70-3	< MDL	mg/Kg	1	0.333	0.13	
Dibenzofuran	132-64-9	< MDL	mg/Kg	1	0.333	0.11	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17030309 **Created Date :** 03/03/17 **Created By :** Psaraiya

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Diethyl phthalate	84-66-2	< MDL	mg/Kg	1	0.333	0.14	
Dimethyl phthalate	131-11-3	< MDL	mg/Kg	1	0.333	0.11	
Di-n-butyl phthalate	84-74-2	< MDL	mg/Kg	1	0.333	0.16	
Di-n-octyl Phthalate	117-84-0	< MDL	mg/Kg	1	0.333	0.09	
Fluoranthene	206-44-0	< MDL	mg/Kg	1	0.333	0.17	
Fluorene	86-73-7	< MDL	mg/Kg	1	0.333	0.16	
Hexachlorobenzene	118-74-1	< MDL	mg/Kg	1	0.333	0.010	
Hexachlorobutadiene	87-68-3	< MDL	mg/Kg	1	0.333	0.10	
Hexachlorocyclopentadiene	77-47-4	< MDL	mg/Kg	1	0.333	0.12	
Hexachloroethane	67-72-1	< MDL	mg/Kg	1	0.333	0.10	
Indeno(1,2,3-cd)pyrene	193-39-5	< MDL	mg/Kg	1	0.333	0.20	
Isophorone	78-59-1	< MDL	mg/Kg	1	0.333	0.13	
Naphthalene	91-20-3	< MDL	mg/Kg	1	0.333	0.10	
Nitrobenzene	98-95-3	< MDL	mg/Kg	1	0.333	0.12	
N-Nitrosodimethylamine	62-75-9	< MDL	mg/Kg	1	0.333	0.09	
N-nitroso-di-n-propylamine	621-64-7	< MDL	mg/Kg	1	0.333	0.10	
Pentachlorophenol	87-86-5	< MDL	mg/Kg	1	0.333	0.14	
Phenanthrene	85-01-8	< MDL	mg/Kg	1	0.333	0.20	
Phenol	108-95-2	< MDL	mg/Kg	1	0.333	0.11	
Pyrene	129-00-0	< MDL	mg/Kg	1	0.333	0.18	
2-Fluorophenol(surr)	367-12-4	58.6	%	1			
Phenol-d6(surr)	13127-88-3	55.2	%	1			
Nitrobenzene-d5(surr)	4165-60-0	50.3	%	1			
2-Fluorobiphenyl(surr)	132-60-8	55.7	%	1			
2,4,6-Tribromophenol(surr)	118-79-6	61.5	%	1			
p-Terphenyl-d14(surr)	1718-51-0	65.9	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,4-Trichlorobenzene	1.67	1.23	73.7	1.67	1.25	74.9	1.6	35	32-126	
1,2-Dichlorobenzene	1.67	1.2	71.9	1.67	1.26	75.4	4.9	35	34-118	
1,3-Dichlorobenzene	1.67	1.11	66.5	1.67	1.24	74.3	11.1	35	34-118	
1,4-Dichlorobenzene	1.67	1.14	68.3	1.67	1.23	73.7	7.6	35	35-115	
2,4,5-Trichlorophenol	1.67	1.4	83.8	1.67	1.54	92.2	9.5	35	35-124	
2,4,6-Trichlorophenol	1.67	1.41	84.4	1.67	1.5	89.8	6.2	35	35-123	
2,4-Dichlorophenol	1.67	1.44	86.2	1.67	1.45	86.8	0.7	35	31-124	
2,4-Dimethylphenol	1.67	1.39	83.2	1.67	1.46	87.4	4.9	35	29-129	
2,4-Dinitrophenol	1.67	1.09	65.3	1.67	1.11	66.5	1.8	35	D-94	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/Kg

QC Batch ID : Qb17030309

Created Date : 03/03/17

Created By : Psaraiya

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4-Dinitrotoluene	1.67	1.39	83.2	1.67	1.49	89.2	6.9	35	42-134	
2,6-Dinitrotoluene	1.67	1.32	79	1.67	1.46	87.4	10.1	35	37-128	
2-Chloronaphthalene	1.67	1.15	68.9	1.67	1.23	73.7	6.7	35	37-124	
2-Chlorophenol	1.67	1.25	74.9	1.67	1.37	82	9.2	35	26-119	
2-Methylnaphthalene	1.67	1.25	74.9	1.67	1.29	77.2	3.2	35	28-128	
2-Methylphenol	1.67	1.23	73.7	1.67	1.39	83.2	12.2	35	26-125	
2-Nitrophenol	1.67	1.22	73.1	1.67	1.29	77.2	5.6	35	25-123	
3- & 4-Methylphenols	3.33	2.63	79	3.33	3.04	91.3	14.5	35	29-118	
4,6-Dinitro-2-methylphenol	1.67	1.21	72.5	1.67	1.34	80.2	10.2	35	8-129	
4-Bromophenyl phenyl ethe	1.67	1.37	82	1.67	1.44	86.2	5	35	50-122	
4-Chloro-3-methylphenol	1.67	1.42	85	1.67	1.5	89.8	5.5	35	40-127	
4-Chlorophenyl phenyl ethe	1.67	1.35	80.8	1.67	1.4	83.8	3.6	35	47-125	
4-Nitrophenol	1.67	1.22	73.1	1.67	1.32	79	7.9	35	14-138	
Acenaphthene	1.67	1.3	77.8	1.67	1.39	83.2	6.7	35	45-125	
Acenaphthylene	1.67	1.4	83.8	1.67	1.51	90.4	7.6	35	43-118	
Anthracene	1.67	1.43	85.6	1.67	1.51	90.4	5.4	35	53-119	
Benzo(a)anthracene	1.67	1.36	81.4	1.67	1.5	89.8	9.8	35	43-131	
Benzo(a)pyrene	1.67	1.38	82.6	1.67	1.44	86.2	4.3	35	43-126	
Benzo(b)fluoranthene	1.67	1.35	80.8	1.67	1.51	90.4	11.2	35	36-126	
Benzo(g,h,i)perylene	1.67	1.4	83.8	1.67	1.43	85.6	2.1	35	27-126	
Benzo(k)fluoranthene	1.67	1.38	82.6	1.67	1.43	85.6	3.6	35	36-134	
Bis(2-chloroethoxy) methan	1.67	1.22	73.1	1.67	1.28	76.6	4.8	35	33-125	
Bis(2-chloroethyl) ether	1.67	1.1	65.9	1.67	1.27	76	14.3	35	30-125	
Bis(2-chloroisopropyl) ether	1.67	1.14	68.3	1.67	1.26	75.4	10	35	27-122	
Bis(2-ethylhexyl)phthalate	1.67	0.948	56.8	1.67	1.09	65.3	13.9	35	8-158	
Butyl benzyl phthalate	1.67	1.14	68.3	1.67	1.3	77.8	13.1	35	50-139	
Chrysene	1.67	1.31	78.4	1.67	1.39	83.2	5.9	35	42-131	
Dibenzo(a,h)anthracene	1.67	1.29	77.2	1.67	1.4	83.8	8.2	35	33-122	
Dibenzofuran	1.67	1.3	77.8	1.67	1.38	82.6	6	35	22-122	
Diethyl phthalate	1.67	1.3	77.8	1.67	1.39	83.2	6.7	35	48-126	
Dimethyl phthalate	1.67	1.31	78.4	1.67	1.39	83.2	5.9	35	48-122	
Di-n-butyl phthalate	1.67	1.3	77.8	1.67	1.46	87.4	11.6	35	51-126	
Di-n-octyl Phthalate	1.67	0.99	59.3	1.67	1.19	71.3	18.3	35	50-124	
Fluoranthene	1.67	1.48	88.6	1.67	1.59	95.2	7.2	35	51-125	
Fluorene	1.67	1.37	82	1.67	1.44	86.2	5	35	48-123	
Hexachlorobenzene	1.67	1.33	79.6	1.67	1.38	82.6	3.7	35	35-130	
Hexachlorobutadiene	1.67	1.13	67.7	1.67	1.2	71.9	6	35	31-115	
Hexachlorocyclopentadiene	1.67	1.01	60.5	1.67	1.13	67.7	11.2	35	D-116	
Hexachloroethane	1.67	1.08	64.7	1.67	1.19	71.3	9.7	35	36-114	
Indeno(1,2,3-cd)pyrene	1.67	1.19	71.3	1.67	1.12	67.1	6.1	35	31-135	
Isophorone	1.67	1.22	73.1	1.67	1.26	75.4	3.2	35	30-126	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/Kg

QC Batch ID : Qb17030309

Created Date : 03/03/17

Created By : Psaraiya

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Naphthalene	1.67	1.24	74.3	1.67	1.28	76.6	3.2	35	32-124	
Nitrobenzene	1.67	1.21	72.5	1.67	1.31	78.4	7.9	35	29-126	
N-Nitrosodimethylamine	1.67	1.1	65.9	1.67	1.3	77.8	16.7	35	21-121	
N-nitroso-di-n-propylamine	1.67	1.23	73.7	1.67	1.33	79.6	7.8	35	30-128	
Pentachlorophenol	1.67	1.41	84.4	1.67	1.53	91.6	8.2	35	36-117	
Phenanthrene	1.67	1.34	80.2	1.67	1.45	86.8	7.9	35	45-125	
Phenol	1.67	1.28	76.6	1.67	1.4	83.8	9	35	22-118	
Pyrene	1.67	1.41	84.4	1.67	1.49	89.2	5.5	35	32-138	

QC Type: MS and MSD

QC Sample ID: 17021401.05

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,4-Trichlorobenzene	BRL	1.67	1.49	89.2						32-126	
1,2-Dichlorobenzene	BRL	1.67	1.5	89.8						34-118	
1,3-Dichlorobenzene	BRL	1.67	1.44	86.2						34-118	
1,4-Dichlorobenzene	BRL	1.67	1.44	86.2						35-115	
2,4,5-Trichlorophenol	BRL	1.67	1.78	107						35-124	
2,4,6-Trichlorophenol	BRL	1.67	1.7	102						35-123	
2,4-Dichlorophenol	BRL	1.67	1.77	106						31-124	
2,4-Dimethylphenol	BRL	1.67	1.77	106						29-129	
2,4-Dinitrophenol	BRL	1.67	1.29	77.2						D-94	
2,4-Dinitrotoluene	BRL	1.67	1.69	101						42-134	
2,6-Dinitrotoluene	BRL	1.67	1.64	98.2						37-128	
2-Chloronaphthalene	BRL	1.67	1.43	85.6						37-124	
2-Chlorophenol	BRL	1.67	1.64	98.2						26-119	
2-Methylnaphthalene	BRL	1.67	1.56	93.4						28-128	
2-Methylphenol	BRL	1.67	1.65	98.8						26-125	
2-Nitrophenol	BRL	1.67	1.62	97						25-123	
3- & 4-Methylphenols	BRL	3.33	3.52	106						29-118	
4,6-Dinitro-2-methylphenol	BRL	1.67	1.38	82.6						8-129	
4-Bromophenyl phenyl ethe	BRL	1.67	1.63	97.6						50-122	
4-Chloro-3-methylphenol	BRL	1.67	1.72	103						40-127	
4-Chlorophenyl phenyl ethe	BRL	1.67	1.62	97						47-125	
4-Nitrophenol	BRL	1.67	1.56	93.4						14-138	
Acenaphthene	BRL	1.67	1.6	95.8						45-125	
Acenaphthylene	BRL	1.67	1.96	117						43-118	
Anthracene	BRL	1.67	1.74	104						53-119	
Benzo(a)anthracene	BRL	1.67	1.80	108						43-131	
Benzo(a)pyrene	BRL	1.67	1.81	108						43-126	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/Kg

QC Batch ID : Qb17030309 **Created Date :** 03/03/17 **Created By :** Psaraiya

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

QC Type: MS and MSD											
QC Sample ID: 17021401.05											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzo(b)fluoranthene	BRL	1.67	1.77	106						36-126	M1
Benzo(g,h,i)perylene	BRL	1.67	2.08	125						27-126	
Benzo(k)fluoranthene	BRL	1.67	1.81	108						36-134	
Bis(2-chloroethoxy) methan	BRL	1.67	1.56	93.4						33-125	
Bis(2-chloroethyl) ether	BRL	1.67	1.46	87.4						30-125	
Bis(2-chloroisopropyl) ether	BRL	1.67	1.53	91.6						27-122	
Bis(2-ethylhexyl)phthalate	BRL	1.67	1.58	94.6						8-158	
Butyl benzyl phthalate	BRL	1.67	1.71	102						50-139	
Chrysene	BRL	1.67	1.63	97.6						42-131	
Dibenzo(a,h)anthracene	BRL	1.67	2.07	124						33-122	
Dibenzofuran	BRL	1.67	1.59	95.2						22-122	
Diethyl phthalate	BRL	1.67	1.57	94						48-126	
Dimethyl phthalate	BRL	1.67	1.59	95.2						48-122	
Di-n-butyl phthalate	BRL	1.67	1.76	105						51-126	
Di-n-octyl Phthalate	BRL	1.67	1.94	116						50-124	
Fluoranthene	BRL	1.67	1.78	107						51-125	
Fluorene	BRL	1.67	1.64	98.2						48-123	
Hexachlorobenzene	BRL	1.67	1.65	98.8						35-130	
Hexachlorobutadiene	BRL	1.67	1.45	86.8						31-115	
Hexachlorocyclopentadiene	BRL	1.67	3.15	189						D-116	
Hexachloroethane	BRL	1.67	1.42	85						36-114	
Indeno(1,2,3-cd)pyrene	BRL	1.67	1.83	110						31-135	
Isophorone	BRL	1.67	1.73	104						30-126	
Naphthalene	BRL	1.67	1.54	92.2						32-124	
Nitrobenzene	BRL	1.67	1.61	96.4						29-126	
N-Nitrosodimethylamine	BRL	1.67	1.51	90.4						21-121	
N-nitroso-di-n-propylamine	BRL	1.67	1.57	94						30-128	
Pentachlorophenol	BRL	1.67	1.69	101						36-117	
Phenanthrene	BRL	1.67	1.63	97.6						45-125	
Phenol	BRL	1.67	1.68	101						22-118	
Pyrene	BRL	1.67	1.83	110						32-138	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/L

QC Batch ID : Qb17030328 **Created Date :** 03/03/17 **Created By :** Psaraiya

Samples in This QC Batch : 17021401.01,02,03,04

Extraction : PB17030178 **Prep Method :** SW-846 3510C **Prep Date :** 03/01/17 08:00 **Prep By :** CMPolnick

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1	0.01	0.002	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1	0.01	0.003	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1	0.01	0.002	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1	0.01	0.003	
2,4,5-Trichlorophenol	95-95-4	< MDL	mg/L	1	0.01	0.005	
2,4,6-Trichlorophenol	88-06-2	< MDL	mg/L	1	0.01	0.007	
2,4-Dichlorophenol	120-83-2	< MDL	mg/L	1	0.01	0.005	
2,4-Dimethylphenol	105-67-9	< MDL	mg/L	1	0.01	0.006	
2,4-Dinitrophenol	51-28-5	< MDL	mg/L	1	0.01	0.007	
2,4-Dinitrotoluene	121-14-2	< MDL	mg/L	1	0.01	0.006	
2,6-Dinitrotoluene	606-20-2	< MDL	mg/L	1	0.01	0.006	
2-Chloronaphthalene	91-58-7	< MDL	mg/L	1	0.01	0.005	
2-Chlorophenol	95-57-8	< MDL	mg/L	1	0.01	0.005	
2-Methylnaphthalene	91-57-6	< MDL	mg/L	1	0.01	0.004	
2-Methylphenol	95-48-7	< MDL	mg/L	1	0.01	0.005	
2-Nitrophenol	88-75-5	< MDL	mg/L	1	0.01	0.007	
3- & 4-Methylphenols	108-39-4 & 106-44-5	< MDL	mg/L	1	0.02	0.005	
4,6-Dinitro-2-methylphenol	534-52-1	< MDL	mg/L	1	0.01	0.006	
4-Bromophenyl phenyl ethe	101-55-3	< MDL	mg/L	1	0.01	0.006	
4-Chloro-3-methylphenol	59-50-7	< MDL	mg/L	1	0.01	0.004	
4-Chlorophenyl phenyl ethe	7005-72-3	< MDL	mg/L	1	0.01	0.006	
4-Nitrophenol	100-02-7	< MDL	mg/L	1	0.01	0.004	
Acenaphthene	83-32-9	< MDL	mg/L	1	0.01	0.005	
Acenaphthylene	208-96-8	< MDL	mg/L	1	0.01	0.004	
Anthracene	120-12-7	< MDL	mg/L	1	0.01	0.005	
Benzo(a)anthracene	56-55-3	< MDL	mg/L	1	0.01	0.004	
Benzo(a)pyrene	50-32-8	< MDL	mg/L	1	0.01	0.004	
Benzo(b)fluoranthene	205-99-2	< MDL	mg/L	1	0.01	0.004	
Benzo(g,h,i)perylene	191-24-2	< MDL	mg/L	1	0.01	0.005	
Benzo(k)fluoranthene	207-08-9	< MDL	mg/L	1	0.01	0.003	
Bis(2-chloroethoxy) methan	111-91-1	< MDL	mg/L	1	0.01	0.005	
Bis(2-chloroethyl) ether	111-44-4	< MDL	mg/L	1	0.01	0.003	
Bis(2-chloroisopropyl) ether	108-60-1	< MDL	mg/L	1	0.01	0.003	
Bis(2-ethylhexyl)phthalate	117-81-7	< MDL	mg/L	1	0.01	0.008	
Butyl benzyl phthalate	85-68-7	< MDL	mg/L	1	0.01	0.005	
Chrysene	218-01-9	< MDL	mg/L	1	0.01	0.002	
Dibenzo(a,h)anthracene	53-70-3	< MDL	mg/L	1	0.01	0.005	
Diethyl phthalate	84-66-2	< MDL	mg/L	1	0.01	0.004	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb17030328

Created Date : 03/03/17

Created By : Psaraiya

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Dimethyl phthalate	131-11-3	< MDL	mg/L	1	0.01	0.003	
Di-n-butyl phthalate	84-74-2	< MDL	mg/L	1	0.01	0.002	
Di-n-octyl Phthalate	117-84-0	< MDL	mg/L	1	0.01	0.005	
Fluoranthene	206-44-0	< MDL	mg/L	1	0.01	0.004	
Fluorene	86-73-7	< MDL	mg/L	1	0.01	0.006	
Hexachlorobenzene	118-74-1	< MDL	mg/L	1	0.01	0.005	
Hexachlorobutadiene	87-68-3	< MDL	mg/L	1	0.01	0.003	
Hexachlorocyclopentadiene	77-47-4	< MDL	mg/L	1	0.01	0.003	
Hexachloroethane	67-72-1	< MDL	mg/L	1	0.01	0.003	
Indeno(1,2,3-cd)pyrene	193-39-5	< MDL	mg/L	1	0.01	0.005	
Isophorone	78-59-1	< MDL	mg/L	1	0.01	0.006	
Naphthalene	91-20-3	< MDL	mg/L	1	0.01	0.004	
Nitrobenzene	98-95-3	< MDL	mg/L	1	0.01	0.003	
N-Nitrosodimethylamine	62-75-9	< MDL	mg/L	1	0.01	0.003	
N-nitroso-di-n-propylamine	621-64-7	< MDL	mg/L	1	0.01	0.003	
Pentachlorophenol	87-86-5	< MDL	mg/L	1	0.01	0.005	
Phenanthrene	85-01-8	< MDL	mg/L	1	0.01	0.003	
Phenol	108-95-2	< MDL	mg/L	1	0.01	0.003	
Pyrene	129-00-0	< MDL	mg/L	1	0.01	0.006	
Pyridine	110-86-1	< MDL	mg/L	1	0.01	0.015	
2-Fluorophenol(surr)	367-12-4	62.2	%	1			
Phenol-d6(surr)	13127-88-3	56	%	1			
Nitrobenzene-d5(surr)	4165-60-0	67.3	%	1			
2-Fluorobiphenyl(surr)	132-60-8	68.3	%	1			
2,4,6-Tribromophenol(surr)	118-79-6	77.1	%	1			
p-Terphenyl-d14(surr)	1718-51-0	81.7	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,2,4-Trichlorobenzene	0.05	0.028	56	0.05	0.03	60	6.9	35	6-126	
1,2-Dichlorobenzene	0.05	0.027	54	0.05	0.027	54	0	35	18-102	
1,3-Dichlorobenzene	0.05	0.024	48	0.05	0.025	50	4.1	35	18-100	
1,4-Dichlorobenzene	0.05	0.024	48	0.05	0.025	50	4.1	35	14-109	
2,4,5-Trichlorophenol	0.05	0.043	86	0.05	0.045	90	4.6	35	16-124	
2,4,6-Trichlorophenol	0.05	0.043	86	0.05	0.044	88	2.3	35	19-120	
2,4-Dichlorophenol	0.05	0.041	82	0.05	0.043	86	4.8	35	9-121	
2,4-Dimethylphenol	0.05	0.04	80	0.05	0.042	84	4.9	35	D-121	
2,4-Dinitrophenol	0.05	0.037	74	0.05	0.038	76	2.7	35	20-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb17030328

Created Date : 03/03/17

Created By : Psaraiya

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4-Dinitrotoluene	0.05	0.042	84	0.05	0.044	88	4.6	35	18-137	
2,6-Dinitrotoluene	0.05	0.041	82	0.05	0.042	84	2.4	35	26-122	
2-Chloronaphthalene	0.05	0.034	68	0.05	0.034	68	0	35	19-118	
2-Chlorophenol	0.05	0.039	78	0.05	0.04	80	2.5	35	18-102	
2-Methylnaphthalene	0.05	0.033	66	0.05	0.034	68	3	35	7-124	
2-Methylphenol	0.05	0.038	76	0.05	0.039	78	2.6	35	26-114	
2-Nitrophenol	0.05	0.042	84	0.05	0.045	90	6.9	35	16-109	
3- & 4-Methylphenols	0.1	0.082	82	0.1	0.083	83	1.2	35	8-104	
4,6-Dinitro-2-methylphenol	0.05	0.037	74	0.05	0.039	78	5.3	35	8-124	
4-Bromophenyl phenyl ethe	0.05	0.039	78	0.05	0.04	80	2.5	35	33-113	
4-Chloro-3-methylphenol	0.05	0.041	82	0.05	0.042	84	2.4	35	17-122	
4-Chlorophenyl phenyl ethe	0.05	0.037	74	0.05	0.039	78	5.3	35	27-120	
4-Nitrophenol	0.05	0.032	64	0.05	0.03	60	6.5	35	D-112	
Acenaphthene	0.05	0.039	78	0.05	0.04	80	2.5	35	23-131	
Acenaphthylene	0.05	0.041	82	0.05	0.042	84	2.4	35	24-117	
Anthracene	0.05	0.042	84	0.05	0.042	84	0	35	32-118	
Benzo(a)anthracene	0.05	0.042	84	0.05	0.044	88	4.6	35	36-115	
Benzo(a)pyrene	0.05	0.043	86	0.05	0.044	88	2.3	35	28-116	
Benzo(b)fluoranthene	0.05	0.042	84	0.05	0.043	86	2.4	35	27-121	
Benzo(g,h,i)perylene	0.05	0.044	88	0.05	0.043	86	2.3	35	18-123	
Benzo(k)fluoranthene	0.05	0.041	82	0.05	0.042	84	2.4	35	21-122	
Bis(2-chloroethoxy) methan	0.05	0.037	74	0.05	0.039	78	5.3	35	20-107	
Bis(2-chloroethyl) ether	0.05	0.036	72	0.05	0.037	74	2.7	35	23-95	
Bis(2-chloroisopropyl) ether	0.05	0.036	72	0.05	0.036	72	0	35	17-104	
Bis(2-ethylhexyl)phthalate	0.05	0.032	64	0.05	0.039	78	19.7	35	9-133	
Butyl benzyl phthalate	0.05	0.039	78	0.05	0.043	86	9.8	35	14-135	
Chrysene	0.05	0.04	80	0.05	0.041	82	2.5	35	36-117	
Dibenzo(a,h)anthracene	0.05	0.041	82	0.05	0.041	82	0	35	26-118	
Diethyl phthalate	0.05	0.037	74	0.05	0.039	78	5.3	35	25-128	
Dimethyl phthalate	0.05	0.038	76	0.05	0.04	80	5.1	35	27-122	
Di-n-butyl phthalate	0.05	0.04	80	0.05	0.043	86	7.2	35	25-128	
Di-n-octyl Phthalate	0.05	0.036	72	0.05	0.044	88	20	35	18-128	
Fluoranthene	0.05	0.043	86	0.05	0.044	88	2.3	35	27-131	
Fluorene	0.05	0.039	78	0.05	0.039	78	0	35	26-126	
Hexachlorobenzene	0.05	0.04	80	0.05	0.04	80	0	35	30-130	
Hexachlorobutadiene	0.05	0.024	48	0.05	0.024	48	0	35	5-115	
Hexachlorocyclopentadiene	0.05	0.021	42	0.05	0.023	46	9.1	35	D-95	
Hexachloroethane	0.05	0.02	40	0.05	0.021	42	4.9	35	14-102	
Indeno(1,2,3-cd)pyrene	0.05	0.04	80	0.05	0.038	76	5.1	35	24-126	
Isophorone	0.05	0.039	78	0.05	0.039	78	0	35	15-114	
Naphthalene	0.05	0.032	64	0.05	0.033	66	3.1	35	19-112	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Semivolatile Organic Compounds

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb17030328

Created Date : 03/03/17

Created By : Psaraiya

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Nitrobenzene	0.05	0.039	78	0.05	0.04	80	2.5	35	20-109	
N-Nitrosodimethylamine	0.05	0.036	72	0.05	0.035	70	2.8	35	5-92	
N-nitroso-di-n-propylamine	0.05	0.039	78	0.05	0.04	80	2.5	35	24-114	
Pentachlorophenol	0.05	0.043	86	0.05	0.043	86	0	35	D-128	
Phenanthrene	0.05	0.04	80	0.05	0.04	80	0	35	31-119	
Phenol	0.05	0.031	62	0.05	0.032	64	3.2	35	D-111	
Pyrene	0.05	0.044	88	0.05	0.046	92	4.4	35	10-145	
Pyridine	0.05	0.022	44	0.05	0.021	42	4.7	35	D-129	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb17030335 **Created Date :** 02/27/17 **Created By :** AVBembde

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13,14

Sample Preparation : PB17030326 **Prep Method :** TX 1005 **Prep Date :** 02/27/17 18:00 **Prep By :** AVBembde

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/Kg	1	25	23.7	
>C12-C28	TPH-1005-2	< MDL	mg/Kg	1	25	20.3	
>C28-C35	TPH-1005-4	< MDL	mg/Kg	1	25	17.7	
Total C6-C35		< MDL	mg/Kg	1	----		
Chlorooctadecane(surr)	3386-33-2	100	%	1			
1-Chlorooctane(surr)	111-85-3	99.3	%	1			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	465	93	500	508	102	8.8	20	75-125	
>C12-C28	500	549	110	500	604	121	9.5	20	75-125	
>C28-C35	500	521	104	500	576	115	10	20	75-125	

QC Type: MS and MSD

QC Sample ID:

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	2.24	500	456	90.8	500	548	109	18.4	20	75-125	
>C12-C28	4.29	500	497	98.5	500	397	78.5	22.6	20	75-125	
>C28-C35	0.092	500	417	83.4	500	383	76.6	8.5	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Corrosivity, pH

Method : SM 4500H B

Reporting Units : s.u.

QC Batch ID : Qb17030339

Created Date : 03/03/17

Created By : LEBell

Samples in This QC Batch : 17021401.01,02,03,04

QC Type: Duplicate

QC Sample ID: 17021357.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	7.20	7.18	s.u.	0.3	20	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.00					3.95-4.05	H3

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Corrosivity, pH **Method :** SW-846 9045D **Reporting Units :** s.u.

QC Batch ID : Qb17030340 **Created Date :** 03/03/17 **Created By :** LEBell

Samples in This QC Batch : 17021401.05,06,07,08,09,10,11,12,13

QC Type: Duplicate

QC Sample ID: 17021383.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	6.77	6.70	s.u.	1	5	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.00					3.95-4.05	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Corrosivity, pH

Method : SW-846 9045D

Reporting Units : s.u.

QC Batch ID : Qb17030341

Created Date : 03/03/17

Created By : LEBell

Samples in This QC Batch : 17021401.14

QC Type: Duplicate

QC Sample ID: 17021401.14

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	8.31	8.33	s.u.	0.2	5	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.00					3.95-4.05	

QUALITY CONTROL CERTIFICATE



Job ID : 17021401

Date : 3/6/2017

Analysis : Dissolved Mercury **Method :** EPA 245.1 **Reporting Units :** mg/L

QC Batch ID : Qb17030355 **Created Date :** 03/03/17 **Created By :** csmith

Samples in This QC Batch : 17021401.01,02,03,04

Digestion : PB17030345 **Prep Method :** EPA 245.1 **Prep Date :** 03/03/17 10:40 **Prep By :** csmith

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Mercury	7439-97-6	< MDL	mg/L	1	0.0005	0.00006	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.00469	93.8	0.005	0.00494	98.8	5.2	20	80-120	

QC Type: MS and MSD

QC Sample ID: 17021401.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.00412	82.2						80-120	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17021401

Date: 3/6/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

D1	Sample required dilution due to matrix effects.
D6	Sample required dilution due to matrix effects. Internal standard failed on previous run.
H3	Sample was received and analyzed past holding time.
J	Estimation. Below calibration range but above MDL.
L1	Associated LCS and/or LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference.
M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
M8	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.
M9	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits.
R1	RPD exceeds control limits.
R4	LCS/LCSD RPD exceeds control limit. Recovery meets acceptance criteria.
S1	Surrogate recovery is above control limit. Results may be biased high.
S2	Surrogate recovery is below control limit. Results may be biased low.
U	Undetected at SDL (Sample Detection Limit).
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.

		1. REPORT TO: Company: TSI Address: 10103 Fondren, #426 Houston, TX 77096 Contact: Glenn Lowenstein Phone: 713-467-2900 Fax: 713-467-2903 Email: TSResults@gmail.com Email CC:		2. INVOICE TO: Company: TSI Address: 10103 Fondren, #426 Houston, TX 77096 Contact: Glenn Lowenstein Phone: 713-467-2900 Fax: 713-467-2903 Email: TSResults@gmail.com Email CC:		3. PO # 		4. Turnaround Time (Business Days) ☐ 1 Day * ☐ Other ☐ 2 Days * ☐ ☐ 3 Days * ☐ ☐ 5 Days * ☒ 7 Days-Standard * Surcharge	
		A&B JOB ID 17021401 5. Project # 170209-01B		6. Project Name / Location Sunnyside Env Media Assessment 3502 Belfort, Houston, TX 77051		7. Reporting Requirement ☒ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II		8. Sampler's Name & Company Matthew R. Cowan 9. Sample ID & Description	

ST	Lab Use Only	10. Sampling		11. Matrix					13. No. of Containers	14. Containers*				18. Comments	
		Date	Time	Grab	Water	Soil	Sludge	Air		Other	VOC - 8260	TFH - TX 1005	RCRA 8 - dissolved		SVOC - 8270
ST-1	01ALG	2/22/2017	10:50	X	X					7	X	X	X	X	
ST-2	02ALG	2/22/2017	12:00	X	X					7	X	X	X	X	
ST-3	03ALG	2/22/2017	14:10	X	X					7	X	X	X	X	
ST-4	04ALG	2/22/2017	15:40	X	X					7	X	X	X	X	
ST-1 (2-4)	05ALG	2/22/2017	14:40	X	X	X				7	X	X	X	X	
ST-2 (2-4)	06ALG	2/22/2017	15:00	X	X	X				7	X	X	X	X	
ST-3 (0-4)	07ALG	2/22/2017	15:35	X	X	X				7	X	X	X	X	
ST-4 (2-4)	08ALG	2/22/2017	16:15	X	X	X				7	X	X	X	X	
	09ALG														

19. RELINQUISHED BY 1) <u>Matthew R. Cowan</u> 2/24/17 1042		20. RECEIVED BY 1) <u>Johnny Brown</u> 2/24/17 1042		DATE 2/24/17 TIME 1042		KNOWN HAZARDS / COMMENTS: 140S39031 33+0.5=3.8	
2. RECEIVED BY LABORATORY							

* Containers: VOA- 40 ml vial 4 oz/8 oz- glass wide mouth

**Preservatives: C-Cool H-HCl N-HNO3 S-H2SO4 OH-NaOH T-Na2S2O3 X-Other

Temperature: 7 Intact? ☒ ☐ N

Initials: MR

BILL OF LADING/TRACKING #

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 30 days. A&B reserves the right to return samples.



Sample Condition Checklist

A&B JobID : 17021401		Date Received : 02/24/2017		Time Received : 10:42AM	
Client Name : Terrain Solutions, Inc.					
Temperature : 3.3+0.5cf=3.8°C		Sample pH : n/a			
Thermometer ID : 140539631		pH Paper ID : n/a			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other : ☒ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative	X			
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.	X			
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					
Samples 01-04 are waters, the rest are soils. Received 6 pre weighed vials and a bulk jar per soil sample (terra core method 5035). Split samples 01-04 for pH, labeled them as H's. -AR 02.24.2017					

Received by : AREyes

Check in by/date : AREyes / 02/24/2017

Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 17031595



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

170318-01J / Sunnyside Park, 3502 Bell Fort St., Houston, TX 77051

Report To :	Client Name:	Terrain Solutions, Inc.	P.O.#.:
	Attn:	Glenn Lowenstein	Sample Collected By: Glenn Lowenstein
	Client Address:	10103 Fondren Rd. Ste 426	Date Collected: 03/29/17
	City, State, Zip:	Houston, Texas, 77096	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
SC-1A	Water	17031595.01

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 3/30/2017



This Laboratory is NELAP (T104704213-16-15) accredited. Effective: 10/15/2016; Expires: 03/31/2017

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 03/29/2017 12:35



LABORATORY TEST RESULTS

Client Sample ID: SC-1A
A&B Job Sample ID: 17031595.01

Date: 3/30/2017

Client Name: Terrain Solutions, Inc.
Project Name: 170318-01J / Sunnyside Park, 3502 Bell Fort St., Houston, TX 77051

Attn: Glenn Lowenstein

Test Description: **Total Recoverable Metals**

Analytical Method: EPA 200.7

QC Batch ID: Qb17033045

Prep Method: EPA 200.7

Prepared By: Mwisman

Prep Batch ID: PB17033037

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 03/29/2017 11:45

Date Received: 03/29/2017 12:35

Date Prepared: 03/30/2017 09:40

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-92-1	Lead	0.031		0.004	0.02	0.004	0.02	100	mg/L	1	03/30/17 12:48

Soil results reported on dry weight basis

QUALITY CONTROL CERTIFICATE



Job ID : 17031595

Date : 3/30/2017

Analysis : Total Recoverable Metals			Method : EPA 200.7		Reporting Units : mg/L	
QC Batch ID : Qb17033045		Created Date : 03/30/17		Created By : BRena		
Samples in This QC Batch : 17031595.01						
Digestion : PB17033037		Prep Method : EPA 200.7		Prep Date : 03/30/17 09:40		Prep By : Mwisman

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Lead	7439-92-1	< MDL	mg/L	1	0.02	0.004		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Lead	1	0.968	96.8	1	0.942	94.2	2.7	20	85-115	

QC Type: MS and MSD											
QC Sample ID: 17031597.01											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Lead	BRL	1	0.917	91.7						75-125	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17031595

Date: 3/30/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

10100 East Fwy (I-10)
Suite 100
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
ablabs.com



A&B JOB ID #

17031595

5. Project #

170348-018

6. Project Name/Location

SunnySide Park, 3502 Bellfort St. Houston, TX 77051

7. Reporting Requirement:

☒ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II ☐ PST ☐ MDL ☐ EDD

8. Sampler's Name & Company (PLEASE PRINT)

Glenn Lowenstein

Sampler's Signature & Date

[Signature] 3-29-17

LAB USE ONLY

9. Sample ID and Description

SC-1A

10. Sampling

11. 12. Matrix

Date Time 24 Hr

3-29-17 11:45

Comp. Grab Water Soil Sludge Oil Drinking Water Air Other

X X

13. Containers*

14. Containers*

15. Preservatives**

16. PH-Lab Only

17. Analyses/Methods

Lead (Total)

18. REMARKS

19. REL MONISHED BY

DATE TIME

3-29-17 11:45

20. RECEIVED BY

DATE TIME

3-29-17 12:35

21. KNOWN HAZARDS/COMMENTS

1901

Temperature: 14.8 + 0.5 = 15.3

Thermometer ID 140539031

Intact Y N Initials TLD

A&B cannot accept verbal changes

Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days

A&B reserves the right to return samples

METHOD OF SHIPMENT

LAB USE ONLY

SAMPLING

RENTAL

P/U



Sample Condition Checklist

A&B JobID : 17031595		Date Received : 03/29/2017		Time Received : 12:35PM	
Client Name : Terrain Solutions, Inc.					
Temperature : 14.8+0.5cf=15.3°C		Sample pH : <2			
Thermometer ID : 140539631		pH Paper ID : 68918			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other : ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative	X			
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					

Received by : AREyes

Check in by/date : AREyes / 03/29/2017

Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 17031596



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

170318-01J / Sunnyside Park, 3502 Bellfort St., Houston, TX 77051

Report To :	Client Name:	Terrain Solutions, Inc.	P.O.#.:
	Attn:	Glenn Lowenstein	Sample Collected By: Glenn Lowenstein
	Client Address:	10103 Fondren Rd. Ste 426	Date Collected: 03/29/17
	City, State, Zip:	Houston, Texas, 77096	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
SC-1B	Water	17031596.01

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 3/30/2017



This Laboratory is NELAP (T104704213-16-15) accredited. Effective: 10/15/2016; Expires: 03/31/2017

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 03/29/2017 12:35



LABORATORY TEST RESULTS

Client Sample ID: SC-1B

Date: 3/30/2017

A&B Job Sample ID: 17031596.01

Client Name: Terrain Solutions, Inc.

Attn: Glenn Lowenstein

Project Name: 170318-01J / Sunnyside Park, 3502 Belfort St., Houston, TX 77051

Test Description: **Dissolved Metals**

Analytical Method: EPA 200.7

QC Batch ID: Qb17033014

Prep Method: EPA 200.7

Prepared By: BRena

Prep Batch ID: PB17033011

Analyst Initial: BRR

Sample Matrix: Water

Date Collected: 03/29/2017 11:45

Date Received: 03/29/2017 12:35

Date Prepared: 03/30/2017 09:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
7439-92-1	Lead	< 0.004	U	0.004	0.02	0.004	0.02	100	mg/L	1	03/30/17 11:41

Soil results reported on dry weight basis

QUALITY CONTROL CERTIFICATE



Job ID : 17031596

Date : 3/30/2017

Analysis : Dissolved Metals		Method : EPA 200.7	Reporting Units : mg/L	
QC Batch ID : Qb17033014	Created Date : 03/30/17	Created By : BRena		
Samples in This QC Batch : 17031596.01				
Digestion : PB17033011	Prep Method : EPA 200.7	Prep Date : 03/30/17 09:00	Prep By : BRena	

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Lead	7439-92-1	< MDL	mg/L	1	0.02	0.004		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Lead	1	0.976	97.6	1	0.979	97.9	0.3	20	80-120	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 17031596

Date: 3/30/2017

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

U	Undetected at SDL (Sample Detection Limit).
---	---



Sample Condition Checklist

A&B JobID : 17031596		Date Received : 03/29/2017		Time Received : 12:35PM	
Client Name : Terrain Solutions, Inc.					
Temperature : 14.8+0.5cf=15.3°C		Sample pH : n/a			
Thermometer ID : 140539631		pH Paper ID : n/a			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other : ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative			X	
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					

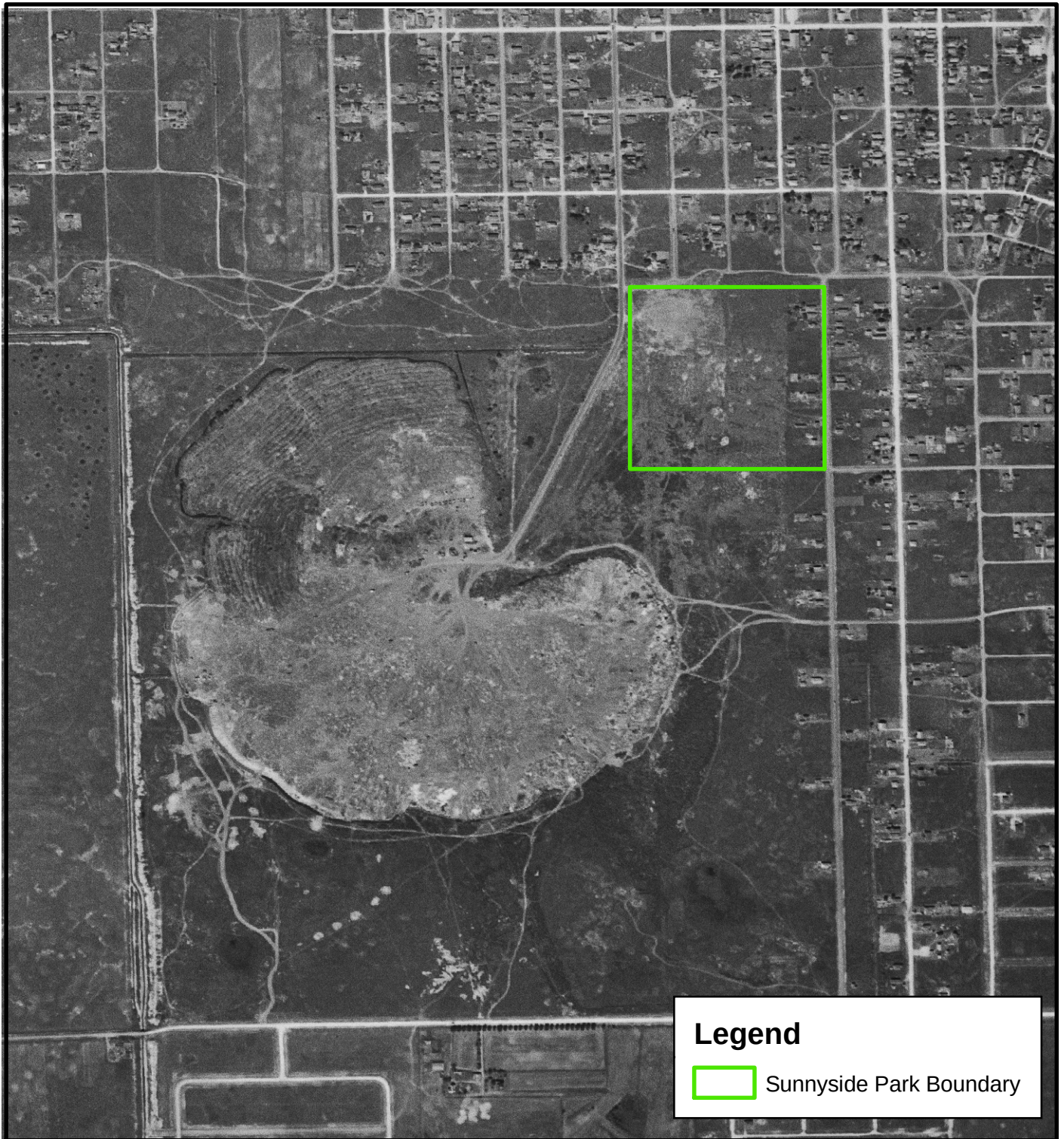
Received by : AREyes

Check in by/date : AREyes / 03/29/2017

APPENDIX F

BACK-UP DOCUMENTATION





Legend

 Sunnyside Park Boundary



Aerial Photograph Source: United States Geological Survey

1 inch equals 800 feet



1953 Aerial Map

Sunnyside Park
3502 Belfort Street
Houston, TX 77051

PROJECT # 170209-01B

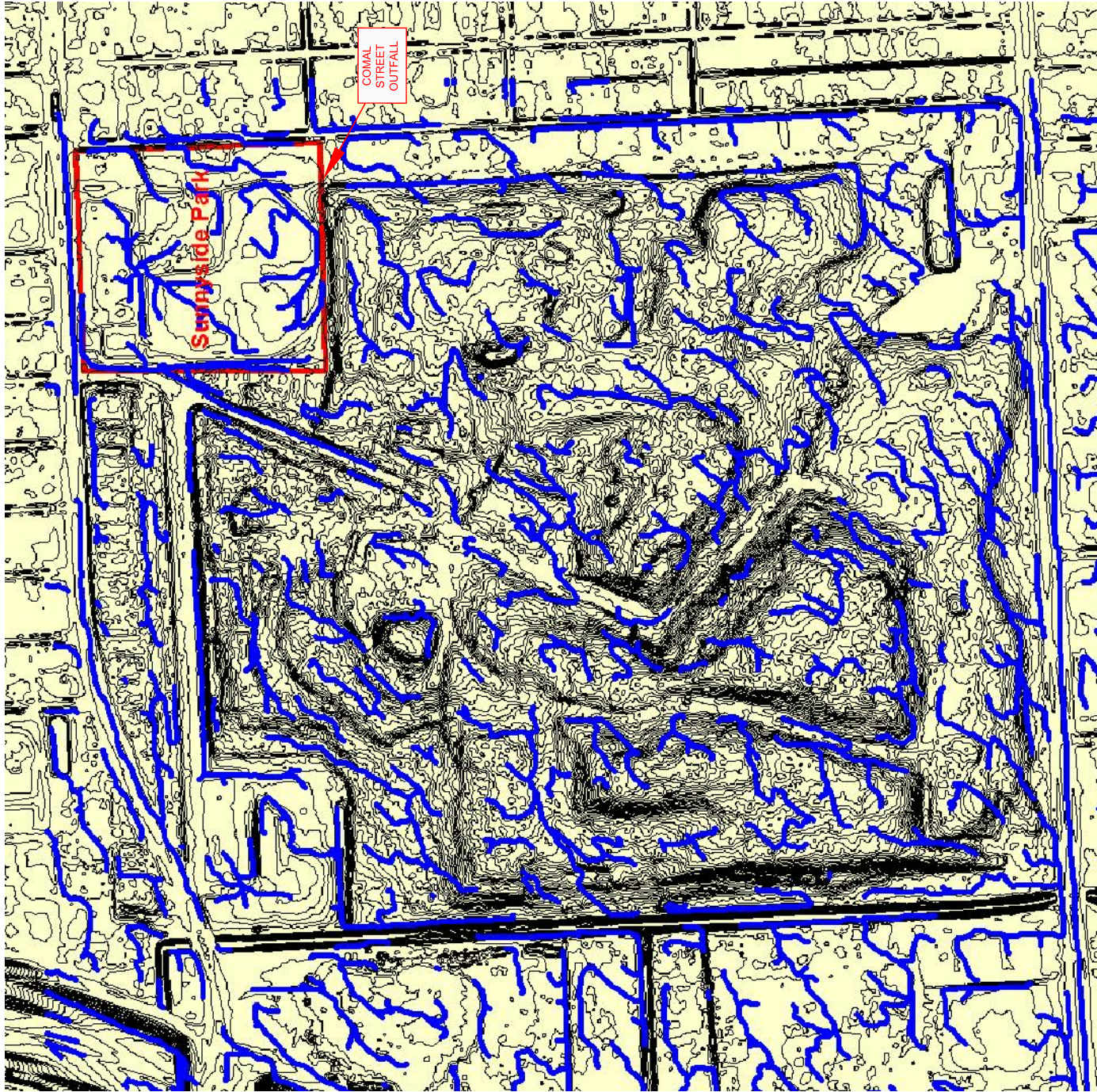
DATE: 3-20-17

TERRAIN SOLUTIONS INC.

Firm Registration #50018

10103 Fondren, Suite 426
Houston, TX 77096
713-467-2900





LEGEND

- SUBJECT PROPERTY BOUNDARY
- POSSIBLE STORMWATER/RAIN
- RUNOFF DRAINAGE PATHWAYS

(SOURCE: 2008 HARRIS GALVESTON
AREA COUNCIL LIDAR DEM 2008)

Terrain
Solutions, Inc.

TERRAIN SOLUTIONS, INC.
Firm Registration # 50018
10103 Fondren Road, Suite 426
Houston, Texas 77096

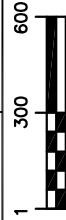
SUNNYSIDE PARK
STORMWATER DRAINAGE

FIGURE
6

SUNNYSIDE PARK
3502 BELLFORT ST
HOUSTON, TX 77051



DATE: APRIL 2017 JOB NO: 170209-01B



APPROXIMATE SCALE: 1"=600'