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RESPONSE ACTIVITY PLAN - REMEDIAL ACTION PLAN

Of 1994 PA 451, Part 201, as amended

BRUSH PARK APARTMENTS
269, 281, 291 WINDER STREET AND 2515 BRUSH STREET
DETROIT, MICHIGAN

PREPARED FOR:

BRUSH PARK MHT LIMITED DIVIDEND HOUSING ASSOCIATION, LLC
32600 TELEGRAPH ROAD, SUITE 102
BINGHAM FARMS, MICHIGAN 48025



Request for EGLE Review of Response Activity Plan

This form is required for submittal of a request for EGLE to review a Response Activity Plan, under Section 20114b, Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Section A: Type of Response Activity Plan being Submitted (Check all that apply):

Remedial Investigation	<input type="checkbox"/>	20b(2) Site Specific Criteria <i>(modification of generic criteria)</i>	<input checked="" type="checkbox"/>
Evaluation Plan	<input type="checkbox"/>		
Feasibility Study	<input type="checkbox"/>	20b(3) Site Specific Criteria or Surrogate <i>(no generic criteria available)</i>	<input type="checkbox"/>
Remedial Action Plan	<input checked="" type="checkbox"/>		
Interim Response Plan	<input type="checkbox"/>	Section 20118(4) and (5) Request	<input type="checkbox"/>
Mixing Zone Request	<input type="checkbox"/>	Land or Resource Use Restrictions	<input type="checkbox"/>
20e(14) De Minimus GSI Impact	<input type="checkbox"/>	Other, Specify:	<input type="checkbox"/>

The Response Activity Plan addresses the entire facility:
 (entire facility as defined by Part 201, all releases, hazardous substances, and environmental media)
 281 Winder Street, 291 Winder Street, and 2515 Brush Street

The Response Activity Plan does not address the entire facility:
 Please specify the release(s), hazardous substance(s), environmental media, and/or portions of the facility addressed by the Response Activity Plan: 269 Winder Street— portion of the property at which remedial actions will not be conducted.

Section B: Facility/Property Subject to (Check all that apply):

Facility regulated under Part 201 Part 201 Facility ID (if known): 82008686	<input checked="" type="checkbox"/>
Leaking Underground Storage Tank regulated pursuant to Part 213 Part 211/213. Facility ID, if known:	<input type="checkbox"/>
Oil or gas production and development regulated pursuant to Part 615 or 625	<input type="checkbox"/>
Licensed landfill regulated pursuant to Part 115	<input type="checkbox"/>
Licensed hazardous waste treatment, storage, or disposal facility regulated pursuant to Part 111	<input type="checkbox"/>
Consent Agreement or other legal agreement with EGLE	<input type="checkbox"/>

Section C: Facility and Locational Information:

Facility Name: Brush Park Apartments Street Address of Property: 269 Winder Street (except portion of), 281 Winder Street, 291 Winder Street, and 2515 Brush Street City: Detroit State: MI Zip: 48201 Property Tax ID (include all applicable IDs): 01000595.002L (269 Winder Street – except portion of) 01000596 (281 Winder Street) 01000597 (291 Winder Street) 01000598-604 (2515 Brush Street) Status of submitter relative to the property (check all that apply): <table style="width:100%; border:none;"> <tr> <td></td> <td style="text-align:center;">Former</td> <td style="text-align:center;">Current</td> <td style="text-align:center;">Prospective</td> </tr> <tr> <td>Owner</td> <td style="text-align:center;"><input type="checkbox"/></td> <td style="text-align:center;"><input type="checkbox"/></td> <td style="text-align:center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Operator</td> <td style="text-align:center;"><input type="checkbox"/></td> <td style="text-align:center;"><input type="checkbox"/></td> <td style="text-align:center;"><input checked="" type="checkbox"/></td> </tr> </table>		Former	Current	Prospective	Owner	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operator	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	County: Wayne City/Village/Township: Detroit Town: 02 South Range: 12 East Section: 8 Quarter: Quarter-Quarter: Decimal Degrees Latitude: 42° 20' 33.90" Decimal Degrees Longitude: 83° 2' 58.11" Reference point for latitude and longitude: Center of site <input checked="" type="checkbox"/> Main/front door <input type="checkbox"/> Front gate/main entrance <input type="checkbox"/> Other <input type="checkbox"/> Collection method: Survey <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Interpolation <input type="checkbox"/>
	Former	Current	Prospective										
Owner	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Operator	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										

Section D: Submitter Information:

Entity/person requesting review: Brush Park MHT Limited
 Dividend Housing Association, LLC
 Contact Person (name and title): T. Van Fox, President
 Submitter Address: 32500 Telegraph Road, Suite 100
 City: Bingham Farms
 Telephone: 248-833-0550
 Relationship of contact person to the submitter: President
 Owner Name, if different from submitter:
 Address:
 City:
 Telephone:

State: MI Zip: 48025
 E-Mail: vanfox@mhthousing.net
 Company: MHT Housing, Inc.
 State: Zip:
 E-Mail:

Section E: Are/were the following present at the facility (Check all that apply):

	Current	Previous	Unknown
Mobile or Migrating Non-Aqueous Phase Liquids (NAPL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil contamination above any residential criteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil contamination above any non-residential criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil aesthetic impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater contamination above any residential criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater contamination above any non-residential criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater aesthetic impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Gas contamination above residential vapor intrusion (VI) screening levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Gas contamination above non-residential VI screening levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conditions immediately dangerous to life or health (IDLH)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire & Explosion hazards related to releases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contamination existing in drinking water supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imminent threat to drinking water supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impact to Surface Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface Water Sediments above screening levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section F: The following questions assist EGLE in evaluating this request.

Known or Suspected Contaminant(s) Type (Check all that apply):
 Petroleum Volatile Organic Compounds Metals Other

Current Site Status (Check all that apply):
 Undergoing property transfer Active operations Inactive operation

Current Property Use:
 Residential
 Non-residential

Anticipated Property Use:
 Residential
 Non-residential

Estimated Area of Contamination Addressed in Response Action Plan (Cumulative):
 Currently undetermined < 0.5 acre > 0.5 acre

Migration:

	Yes	No	Unknown
Has contamination migrated beyond the property boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Notice of Migration been submitted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility Investigation Status:
 Ongoing Complete

Facility Response Activity Status (Check all that apply):
 None IR Implemented Response Activity Ongoing Response Activity Completed

Drinking Water Supply for Facility (Check all that apply):
 Municipal Private Well(s) No Current Water Supply Municipal Available

On-site Well(s) (Check all that apply):
 Drinking Water Industrial/Commercial Production Agricultural/Irrigation No well on-site
 Approximate Depth of Well(s):

Local Drinking Water Supply:
 Is facility in a designated Wellhead Protection Area? Yes No
 Distance to nearest off-site drinking water well: Private Municipal

Surface Water Bodies on or Adjacent to Facility (Check all that apply): NA
 Wetlands Ditch Stream/River Lake/Pond

Local Surface Water Bodies: Detroit River
 Distance to nearest wetland: Ditch: Stream/River: 1.13 miles or 5,970 feet Lake/Pond:

Have other plans been submitted for this facility? NO
 Facility Name, if different than this submittal:
 Date and Name of most recent submittal:

Section G: Environmental Professional Signature:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief.



Signature:

Date: 4-18-2022

Printed Name: Steven K. Guyot

Company of Environmental Professional: ESGPW, LLC

Address: 18640 Mack Ave. No. 1029

City: Grosse Pointe

State: MI

Zip: 48236

Telephone: 734-649-9681

E-mail address: Skguyot@gmail.com

Section H: Submitter Signature:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief and I am legally authorized to sign for the submitter.

Signature: 

Date: 

Printed name: T. Van Fox, President

Title/Relationship of signatory to submitter: President of MHT Housing, Inc

Address: 32500 Telegraph Road, Suite 100

City: Bingham Farms

State: MI

Zip: 48025

Telephone: 248-833-0550

E-Mail address: vanfox@mhthousing.net

This form and the Response Activity Plan should be submitted to EGLE Remediation & Redevelopment Division District Office for the county in which the property is located, unless the response activity is related to a facility that is regulated by another EGLE Division. A district map is located at www.michigan.gov/EGLErrd. If regulated by another division, contact should be made with that division for information on where to submit the form and plan.

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This form and its contents are subject to the Freedom of Information Act and may be released to the public.

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RESPONSE ACTIVITY PLAN - REMEDIAL ACTION PLAN

269, 281, 291 Winder Street and 2515 Brush Street
Detroit, Wayne County, Michigan

1.0 Introduction

This Response Activity Plan – Remedial Action Plan (ResAP) was prepared on behalf of Brush Park MHT Limited Dividend Housing Association, LLC (the Client) for the properties identified as 269, 281, 291 Winder Street and 2515 Brush Street in Detroit, Wayne County, Michigan (collectively referred to as Property). The ResAP identifies the remedial actions proposed to be undertaken by the prospective property owner at these properties (facilities) to satisfy the applicable generic cleanup criteria and site-specific criteria for unrestricted residential use for the hazardous substances, environmental media, and relevant pathways specified in this ResAP.

The Client proposes to redevelop the Property with a 45,631 square foot, four-story apartment building, associated paved driveways, parking areas, and other infrastructure improvements. The apartment complex will feature 58 total units with first floor retail and residences suites and second through fourth floor residential apartments. The proposed building will not be constructed with a basement, but will be equipped with an elevator, located on the southeastern portion of the Property. The remaining portions of the Property will be developed with a parking lot and greenspace. As part of the proposed redevelopment of the Property, the Client intends to remove the surficial soil and/or fill material, which averages approximately 5 feet in depth, and replace this exported material with documented clean backfill. Refer to **Appendix A** for a copy of the proposed development plan.

An approval of this ResAP is being requested of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) under Section 20114b. (1) of Part 201, of the NREPA in support of a 9% tax credit and project-based voucher program through the Michigan State Housing Development Authority (MSHDA) and to facilitate a potential use of United States Housing and Development (HUD) funding sources (Home Funds) provided by the City of Detroit, which requires that Brush Park MHT Limited Dividend Housing Associates, LLC prepare and submit for EGLE review and approval a No Further Action Report (NFA Report) that demonstrates the applicable generic and site-specific cleanup criteria for unrestricted residential use has been achieved. The ResAP proposes to conduct remedial actions to achieve unrestricted residential use of all four parcels, with the exception of a small portion along the northern boundary of a parcel identified as 269 Winder Street. Refer to Figure 1 to see the small, boxed area adjoining the alleyway at the top central portion of the ALTA Survey. This area contains the walls of a former garage or stable, buried approximately 12 inches deep that was determined to be an archaeological feature the City of Detroit Preservation Department is requiring remain in place and undisturbed.

2.0 Detailed Property Description

2.1 Property Description

The Property is comprised of four individually described and taxed parcels of land identified by the addresses 269, 281, 291 Winder Street and 2515 Brush Street in Detroit, Wayne County, Michigan. The Parcel Identification Numbers are 01000598-604, 01000597, 01000596, and 01000595.002L and combined, the parcels total approximately 0.91 acres. The Property is located on the west side of Brush Street and north side of Winder Street, east of John R Street in in the northeast ¼ of Section 8 in the City of Detroit (Township 02 South/Range 12 East), Wayne County, Michigan. The Property is currently owned by MHT Housing, Inc; however, Brush Park MHT Limited Dividend Housing Association, LLC intends to purchase the Property as part of the transaction.

2.2 Property Features

The Property currently consists of undeveloped, vegetative covered land (i.e., grass and trees) and does not contain visible structures or other improvements. The Property is currently zoned Planned Development District-Historical (PD-H) and is located in an area of Detroit that is characterized by undeveloped land, residential properties, surface roadways, municipal sanitary sewer and water and electrical and gas utilities. Refer to Figure 1 for a topographic site location map, and Figure 2 for a site map.

2.3 Historical Property Use

The following provides a summary of historical uses of the Property and surroundings based on a review of the following environmental reports:

ASTI Environmental September 2016 Phase I ESA
ASTI Environmental February 2020 Phase I ESA
AKT Peerless January 2021 Phase I ESA

The Property was developed with various residential dwellings prior to 1884 with additional dwellings constructed between 1884 and 1897. By the early 1900s, the dwellings were being converted into multi-occupant developments, some with commercial and residential occupants and other as multi-unit residential units. The buildings located on the northern portion of 269 Winder Street were utilized as an electric shop and automotive repair (which extended onto the west adjoining property) from at least the 1920s until the 1990s. Additionally, a commercial building was constructed on the northern portion of 2515 Brush Street in 1924. Occupants of the commercial building included an automotive supplies company during the 1920s, a sausage company during the 1930s, a hand laundry operation in at least the 1940s, First National Cleaners (washer and dryer) from at least the 1950s until at least the 1970s, and various retail and restaurant operations (grocers, dressmakers, confectioners, etc.) from the 1920s until the 1970s. All buildings on the Property were demolished between the late 1990s and 2010.

2.4 Property Geology/Hydrogeology/Topography

The following sections summarize the physical soil and groundwater conditions at the Property.

2.4.1 Soil and Groundwater Conditions Based on Published Material

According to the United States Department of Agriculture (USDA), Soil Survey of Wayne County, Michigan, the Property falls within the Midtown-Urban Land Complex, 0 to 4 present slopes described as nearly level

to gently sloping, somewhat poorly drained soils. A typical soil profile consists of gravelly-artificial sandy to clay loam to a depth of 37 inches bgs, clay loam to a depth of 55 inches bgs, and loam to a depth of at least 80 inches.

According to the Michigan Geological Survey Division's publication, "Quaternary Geology of Southern Michigan," the soil in the area is lacustrine clay and silt, described as gray to dark reddish brown and are varved in some localities. The soil chiefly underlies extensive, flat, low-lying areas formerly inundated by glacial Great Lakes. Soil thickness ranges from 10 to 30 feet. Typically, lacustrine clay and silt is associated with low hydraulic permeability and restricts the movement of groundwater.

Typically, the water table flows toward a major drainage feature or in the same direction as the drainage basin. ESGPW infers that groundwater in the vicinity of the Property flows toward the south toward the Detroit River; however, local manmade structures (e.g., buildings, roads, sewer systems, and utility service lines) may influence both surface water and groundwater flow. ESGPW did not identify site-specific groundwater information in published material or precisely document the groundwater flow direction beneath the Property.

2.4.2 Soil and Groundwater Conditions Based on Field Observations

During drilling activities, ESGPW encountered the following soil types:

- Widespread FILL across the entire Property and within the basement footprint of former structures from below topsoil to depths ranging between 2.5' (western portion) to 7.0' (eastern portion) bgs. This fill consisted mainly of a brown and gray silty clay with building debris (e.g., brick, concrete, wood, glass, etc.).
- Silt and silty clay below the fill was encountered at a depth averaging 4.5 to 5.5 feet bgs in the central portions of the Property and at a depth of 7.0 bgs in the eastern portion. This silt and silty clay was brown and fine grained, with trace gravel.
- CLAY from below the fill, silt and silty clay, to 12 feet bgs, the maximum depth explored. This clay was mottled, soft to very stiff, brown and gray, with trace sand, silt, and gravel.

ESGPW did not encounter groundwater in the soil borings advanced to a maximum depth of 12 feet bgs at the Property.

3.0 Current and Proposed Property Use

The Property consists of undeveloped, vegetative covered land (i.e., grass and trees) and does not contain visible structures or other improvements.

Upon acquisition, the Client proposes to redevelop the Property with a 45,631 square foot, four-story apartment building and associated paved driveways, parking areas, and other infrastructure improvements. The apartment complex will feature 58 total units with first floor retail and residences suites and second through fourth floor residential apartments.

4.0 Subsurface Investigations and Contaminant Information

4.1 Previous Investigations

The following subsections provide a summary of previous investigations and areas of known contamination at the Property.

4.1.1 ASTI Environmental (ASTI) September 2016 Phase I ESA

In 2016, ASTI prepared a Phase I ESA, that included the Property. The Phase I ESA was conducted in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 Code of Federal Regulations (CFR) Part 312], ASTM Standard Practice E 1527-13, and the 2018 MHSDA Environmental Review Requirements. The purpose of the Phase I ESA was to identify RECs in connection with the Property. At the time of the assessment, the Property consisted of primarily vacant land with some staging areas used for nearby construction, which is generally consistent with current conditions. ASTI identified the following RECs in connection with the Property, which have been revised for clarity and continuity:

REC 1 - First National Cleaners/Creole Hand Laundry, formerly located at 2519 Brush Street. Review of historical records indicate the portion of the Property identified as 2515 Brush Street was occupied by cleaning operations from at least the 1950s until at least the 1970s. The ASTI's 2020 report identified this facility as a cleaner and dryer facility based on the EDR registry. In 2021, AKT performed another phase 1 and in its report identified the same location as a dry cleaner, apparently based on the ASTI report. Thus, it appears that AKT interpreted the words 'cleaner and dryer' to mean a dry cleaner rather than a laundry that also dries the clothes. One soil boring (SB-10) and one soil gas sample (SG-3) were obtained for this area (2515 Brush St.) by ASTI in 2017 and analyzed for VOCs and TO-15 respectively.

REC 2 - This REC does not relate to the Property. This Phase I ESA was conducted on a larger parcel and this REC is in regard to off-site parcels to the north across the alleyway and Adelaide Street and away from the current subject Property.

REC 3 - An electrical shop was historically present in the alley behind the dwelling formerly located at 269 Winder Street. No details about the operation are known, but it is considered to be a manufacturing-type business. Equipment may have included standard machines found in tool shop operations. Electrical cooling/insulating fluid may have also been present. Management of materials and waste generated by the shop are unknown.

REC 4 - Fill material containing demolition debris has been buried at the site. The descriptions from historical records reviewed suggest that little effort was taken to screen the material before backfilling basements and/or footings during early demolition projects, prior to 2004.

4.1.2 ASTI Environmental (ASTI) April 2018 Phase II ESA, October 2018 Phase I ESA Report, and November 2018 Supplemental Sampling

A Phase II ESA was performed in 2017 (July 26 and July 27, 2017) on a larger property area as previously referenced and does not provide additional information from the 2016 report. ASTI advanced soil borings SB-10 through SB-13 on the Property. An elevated detection of lead was identified at the SB-13 location which is on the parcel identified as 269 Winder Street. This elevated detection was identified to be at a concentration of 7,300 ppm lead at 2.5' below ground surface (bgs). Supplemental testing of fine/course fraction analysis for this soil sample indicates the fine fraction of this sample to have a lead concentration of 503 ppm, while the coarse fraction was 387 ppm. Because the total of the fine and coarse fractions is 890 ppm (not 7,300) ppm, it seems that the initial analysis results had been errant skewed due to a large fragment of elemental lead relating to the previous auto related repairs. This finding appears to have mislead ASTI to believe a "release" of a hazardous and potentially regulated substance had been detected at the subject Property as reported

in the October 2018 Phase I ESA. No VOCs or PNAs were detected within the same sample at this location on 269 Winder Street.

The October 2018 Phase I ESA also includes data from three TO-15 soil gas samples collected on September 2, 2017.

Supplemental sampling conducted in November 2018 included the advancement HA-1 through HA-3 on the Property. According to ASTI's report, the analysis identified multiple metals in concentrations above Egle Part 201 RCC on the 269 and 281 Winder Street parcels.

4.1.3 ASTI Environmental (ASTI) February 2020 Phase I ESA

A Phase I ESA was performed exclusively on the current subject Parcels including 2515 Brush Street, 269, 281, and 291 Winder Street. The February 2020 Phase I ESA referenced the data generated in 2017 and originally included in the April 2018 Phase II ESA, which stated that a 'release has been confirmed' at northwest corner of 269 Winder Street based on the lead result of 7,300 ppm for the sample collected from soil boring 13 on the 269 Winder Street parcel.

During the 2021 archeological investigation, a wheel weight was found in the area, substantiating the auto repair history. Thus, the lead observed in the soils collected for analysis may have been a part of a piece of elemental lead, probably from a wheel weight. Most likely, the drafter of the 2018 Phase 1 report used imprecise language as this was an exceedance of applicable criteria and thus caused the Property to be defined a "facility" under Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 201).

4.1.4 AKT Peerless (AKT) January 2021 Phase I ESA

In January 2021, AKT prepared a Phase I ESA of the Property on behalf of Brush Park Limited Dividend Housing Association, LLC., which did not provide additional or different information from the prior Phase 1 reports.

4.1.5 Hartley Geotechnical Group, LLC (HARTLEY) March 2021 Soil Test Borings (Geotechnical Report)

In March 2021, Hartley conducted a subsurface investigation of the Property to evaluate composition and compaction of soils that will support the proposed construction of a multistory, slab on grade apartment building with an underground storm water retention system and associated parking areas. Six test borings were advanced to depth with hollow stem auger while geotechnical soil samples were collected and evaluated with a stainless-steel split spoon at 2.5' foot intervals. The six borings were advanced within the proposed building footprint, retention and parking areas to a depth of 20' bgs. Hartley identified that fill was present above a firm to hard silty clay formation that was observed starting at depths between 2.5' and 7.0' feet bgs with the deepest extent of fill along the eastern portion of the property and shallowest at northwest corner.

4.2.1 ESGPW SUBSURFACE INVESTIGATION (October 2021)

In October 2021, ESGPW conducted a subsurface investigation of the Property to evaluate the RECs identified during ASTI's February 2020 Phase I ESA and AKT January 2021 Phase I ESA; to determine or demonstrate if all four parcels of the Property met the definition of a *facility* as defined in Part 201; and to assess the characteristics of the fill material identified above the native silty clay soils. On October 8,

2021, ESGPW advanced 28 soil borings (SB-1 through SB-28) at the Property to verify the vertical and horizontal extent of this fill material and to address the aforementioned RECs. The subsurface investigation included: (1) the advancement of 28 soil borings; (2) the installation of 10 temporary soil gas wells; (3) the collection of 83 soil (including two duplicate samples) and (4) 10 soil gas samples. Fill was identified at an average of five feet bgs overlying the native soils at the Property. Fill materials extended to 7.0 bgs along the eastern portions of the property, 4.5 to 5.0' bgs at the central portions and 2.5' bgs at the northwestern corner of the property.

To conduct the investigation, ESGPW used two crews consisting of hydraulic drive/direct-push (Geoprobe®) sampling technique and two geological scientists following guidance outlined in ASTM publication E1903-11 "Standard Practice of Environmental Site Assessments: Phase II Environmental Site Assessment Process." ESGPW collected continuous soil samples from the soil borings in four-foot intervals to the maximum depth explored of 12 feet bgs. ESGPW personnel inspected, field-screened, and logged the samples collected at each soil boring location.

ESGPW submitted discrete samples for laboratory analyses for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), and Michigan 10 Metals (i.e., arsenic, barium, cadmium, copper, chromium [total], lead, mercury, selenium, silver, and zinc).

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to evaluate each REC.

Summary of Investigation Activity

Environmental Concern	Investigation Activity	Analytical Parameter
Previous subsurface investigations were not adequate to assess fill material located on the Property	SB-1 through SB-28	VOCs, PNAs, Michigan 10 Metals
Previous subsurface investigations were not adequate to assess former cleaning operations located at historical address of 2519 Brush Street (2515 Brush)	SB-13 through SB-19 SG-1 through SG-6	VOCs, PNAs, Michigan 10 Metals TO-15
Previous subsurface investigations were not adequate to assess former electric shop and automotive repair shop operations located at garages at the rear of parcel 269 Winder Street	SB-25 through SB-28 SG-7 through SG-9	VOCS, PNAS, PCBs, Michigan 10 Metals TO-15

On October 09, 2021, ESGPW sampled the 10 soil gas wells installed the previous day. The soil gas wells were installed within the corresponding soil boring and screened at the 5' interval. The purpose of these soil gas wells was to further evaluate the PVECs identified during previous site assessment activities. ESGPW installed a dedicated six-inch polyvinyl chloride (PVC) sampling screen at depths ranging from starting 4.5 to 5 feet bgs, along with dedicated nylon tubing, dependent on the screen length. Several of the sample collection wells were constructed with 12" inch stainless steel screens and several utilized 6" stainless steel screen, however all 10 sample collections wells were in contact with the 5.0 soil interval strata. After the soil gas screen was centered at the five-foot depth as it was position it was inside the borehole, a fine silica sand pack was placed in the annulus around the well to approximately

six inches above the top of the well screen. A seal of hydrated bentonite was then placed on top of the filter pack.

ESGPW collected 10 soil gas samples (SG-1 through SG-10) using dedicated Bottle-Vac™ air samplers and flow control valves preset by the analytical laboratory to a flow rate of between 100 cubic centimeters per minute (cc/min) and 200 cc/min. Prior to collection of each soil gas sample, the flow control valve was connected to the nylon tubing and the connection was tested by conducting a helium tracer leak test using a specialized lab provided shroud. Each connection was determined to be airtight (no helium detections). Soil gas samples were then collected by connecting the Bottle-Vac™ sampler to the quick connection point on the flow control valve. Sampling activities were conducted in general accordance with the MDEQ's May 2013 publication, *Guidance Document for the Vapor Intrusion Pathway*.

ESGPW submitted 10 soil gas samples for analyses of TO-15 (VOCs) to a fixed-base, independent laboratory (Merit Laboratories Inc. of East Lansing Michigan) under chain-of-custody documentation.

Quality Assurance/Quality Control

To ensure the accuracy of data collected during on site activities, ESGPW implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to, (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, and (4) sample preservation techniques. ESGPW also collection of 2 duplicate samples for samples which appeared to exhibit the most impact.

Decontamination of Equipment

During sample collection, ESGPW adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Alconox washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

Calibration of Field Equipment

All field instruments were calibrated prior to first use on-site to ensure accuracy. Field instruments utilized during investigation activities at the Property included a photoionization detector (PID) and a sample scale. During ESGPW's Phase II ESA, a PID was used to field screen all soil samples. The PID was maintained in a calibrated condition using 100 parts per million (ppm) isobutylene span gas prior to subsurface investigations. No significant PID reading were detected except when the instrument was field check with the cap of an indelible marker (which produced readings).

A helium meter/gauge was calibrated by the laboratory and supplied with the helium gas chamber. The meter/gauge was checked at each sample location while the shroud was in place to insure it was reading properly and the sampling train was intact and not drawing dilution air via a poor surface seal.

A sample scale was utilized during soil sampling activities to weigh approximately 10 grams of soil for the methanol preserved samples (i.e., soil samples designated for VOC analysis) in accordance with USEPA Method 5035. The scale was maintained in a calibrated condition using calibration weights in accordance with the manufacturer's specifications.

Documentation of Activities

During ESGPW's Phase II ESA activities, conditions such as soil boring locations, weather conditions, and other pertinent observation were documented. ESGPW visually inspected the soil samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture, and (4) signs of possible contamination (i.e., stained or discolored soil, odors, and significant PID readings).

Soil types were classified in accordance with ASTM publication D-2488 "Unified Soil Classification System." All soil samples were delivered to Merit Laboratories Inc. of East Lansing, Michigan under chain-of-custody documentation.

Sample Preservation Techniques

ESGPW collected soil samples according to USEPA Publication SW-846, "Test Methods for Evaluating Solid Waste." Soil samples were collected in laboratory-supplied containers, stored on ice or at approximately four degrees Celsius, and submitted under chain-of-custody documentation.

Soil samples collected for VOCs analyses were field preserved with methanol in accordance with USEPA Method 5035A and 8260B. Soil samples collected for PNAs, PCBs and metals analyses were stored in unpreserved, eight-ounce wide-mouth jars.

Soil gas samples were collected from each location using a laboratory provided bottle vac.

Laboratory Analysis and Methods

ESGPW submitted 83 discrete soil samples and 10 soil gas samples for laboratory analyses from the 28 soil borings. Of the 83 soil samples, only 55 of those were analyzed, and 2 of those were duplicate. Samples submitted for analysis were upper and middle boring samples, the remaining end of boring (EOB) soil samples were held with the intentions of analyzing any samples needed to provide additional data points. Soil samples were collected on Friday the 8th of October 2021, submitted for analysis to the laboratory on Monday October 11, 2021, with the analytical reports received via email at 4pm on Friday of October 22, 2021. Unfortunately, these EOB sample could not be analyzed because they were past their 14-day holding time by the time the initial laboratory report was received. Because the hold time for any additional PNA or VOC extraction had expired the EOB samples could not be analyzed without being flagged.

A table summarizing the location, depth, matrix, and laboratory analysis for each sample can be found in **Table 3**.

Groundwater was not encountered during ESGPW's subsurface investigation to at least 12 feet bgs, the maximum depth explored.

5.0 Relevant Exposure Pathways Assessment

5.1 Identification of Relevant Pathways

A pathway is relevant when or if exposure can occur whether or not exposure controls are or will be relied upon to prevent exposure and even if concentrations are less than the applicable criteria. A pathway may not be relevant due to natural physical characteristics that preclude the pathway from occurring.

Groundwater was not observed to be present in any of the borings constructed at the property from 2016 through 2021. The drinking water and groundwater surface water interface pathways are not relevant at the Property.

The following soil pathways are relevant for the Property:

- Direct Contact

This pathway is relevant for all residential land uses. The criteria are applicable at all depths.

- Volatilization to Indoor Air

This pathway is relevant for all residential land uses for hazardous substances that are volatile, which includes a sub-set of PNAs and Mercury. The criteria are applicable at all depths.

- Particulate Soil Inhalation (PSI).

This pathway is relevant for all residential land uses. The criteria are applicable at all depths.

- Volatile Soil Inhalation (ambient air)

This pathway is relevant for all residential land uses. The criteria are applicable at all depths, unless the vertical extent of contamination is demonstrated to be limited to the 2 or 5-meter interval.

5.2 Assessment of Applicability of Generic Cleanup Criteria

The objective of the remedial action at this Property is achieve unrestricted residential use for all relevant pathways and receive EGLE approval of an NFA Report for the unrestricted residential land use category for soil on the Property. The proposed remedial actions will allow for future safe reuse of the Property for residential purposes. Removing all contamination exceeding the relevant applicable GRCC, unrestricted residential SSVIAC and/or regional background concentrations will be completed to address the Direct Contact and soil VIAP; no exceedances of the criteria for the PSI or ambient air were detected in the samples collected for laboratory analysis.

ESGPW determined the generic soil criteria for the volatilization to indoor air pathway is not applicable due to the presence of heterogeneous soils on the Property. Therefore, to conduct an adequate evaluation of the risks through the VIAP, ESGPW submitted a request to EGLE for residential site-specific volatilization to indoor air criteria (SSVIAC) for VOCs. EGLE provided ESGPW with SSVIAC for VOCs for groundwater not in contact (GWNIC), soil, and vapor. Remediation on the Subject Property will be to or less than the EGLE provided SSVIAC.

See Appendix D for a copy of the EGLE provided SSVIAC.

5.3 Identification of the Category of Applicable Cleanup Criteria

Brush Park MHT Limited Dividend Housing Association, LLC will develop the Property with a mixed-use commercial and residential building. Therefore, the applicable category of cleanup criteria is residential. The detected concentrations of hazardous substances in soil at the property will be compared to the applicable residential criteria for each relevant pathway.

Summary of Soil Sample Exceedances

Soil Boring Identification	Compound	Value (ug/kg)	EGLE RCC Exceedance
SB-2 3'	Mercury	433	VIAP
SB-3 1'	Mercury	69	VIAP
SB-5 2'	Lead	578,000	DC
	Mercury	347	VIAP
SB-6 1'	Lead	563,000	DC
	Mercury	302	VIAP
SB-7 1'	Mercury	70	VIAP
SB-8 2'	Mercury	94	VIAP
SB-9 2'	Lead	451,000	DC
	Mercury	253	VIAP
SB-10 2'	Mercury	61	VIAP
SB-10 5'	Benzo(a)pyrene	5,500	DC
	Naphthalene	3,100	DC/VIAP
	Phenanthrene	24,800	DC/VIAP
	2-methylnaphthalene	2,000	DC/VIAP
SB-11 3'	Mercury	56	VIAP
SB-11 5'	Mercury	83	VIAP
SB-12 2'	Mercury	510	VIAP
	Phenanthrene	2,800	DC/VIAP
SB-13 2'	Mercury	439	VIAP
	Benzo(a)pyrene	2,500	DC
	Naphthalene	1,300	DC/VIAP
	Phenanthrene	7,200	DC/VIAP
SB-14 2'	Mercury	107	VIAP
SB-15 2'	Mercury	88	VIAP
	Ethylbenzene	80	VIAP
SB-16 2'	Lead	572,000	DC
	Mercury	3,199	VIAP
	Phenanthrene	3,800	DC/VIAP
SB-17 2'	Lead	637,000	DC
	Mercury	1,764	VIAP
	Benzo(a)pyrene	2,800	DC

Soil Boring Identification	Compound	Value (ug/kg)	EGLE RCC Exceedance
	Naphthalene	500	DC/VIAP
	Phenanthrene	7,300	DC/VIAP
SB-18 2'	Mercury	127	VIAP
	Mercury	152	VIAP
SB-20 3.5'	Mercury	117	VIAP
	Phenanthrene	2,300	DC/VIAP
SB-21 3.5'	Mercury	153	VIAP
SB-22 1.5'	Mercury	408	VIAP
SB-23 0.5'	Mercury	259	VIAP
SB-24 8"	Arsenic	9,820	DC
	Mercury	372	VIAP
SB-25 12"	Mercury	694	VIAP
SB-26 12"	Mercury	261	VIAP
SB-27 2'	Mercury	138	VIAP
SB-28 2'	Mercury	74	VIAP
DUP-1 (G-24)	Arsenic	8,940	DC
	Mercury	328	VIAP
DUP-2 (GP-20)	Mercury	170	VIAP
	Phenanthrene	1,900	DC/VIAP

Soil Sample Results

As identified in the above table, arsenic, lead, and various PNAs (phenanthrene, naphthalene, 2-methylnaphthalene, fluoranthene, and benzo(a)pyrene) were detected in multiple samples at concentrations above the generic residential direct contact criteria. Concentrations of mercury, ethylbenzene, phenanthrene, naphthalene, and 2-methylnaphthalene were detected in one or more samples above the applicable SSVIAC. These exceedances were identified at locations **SB-10 5'**, **SB-12 2'**, **SB-13 2'**, **SB-15- 2'**, **SB-16 2'**, **SB-17 2'**, and **SB-20 2'**. With the exception of SB-10 5', where surficial site fill was used to backfill the basement of a former structure, all soil exceedances are located within the shallow fill and the extent of contamination is defined by data for samples collected from the underlying native silty clay soils.

At select locations the soil samples collected were also analyzed for PCBs; the locations were selected in relation to identified historical uses which included automobile and electrical repairs. No PCBs were identified in the samples selected for analysis.

Soil Gas Results

ESGPW submitted 10 soil gas samples for laboratory analysis of volatile organic compounds by method TO-15. The soil gas wells were installed within the area of the parcel that the prior phase 1 reports had indicated was the location of a 'cleaner' based on Sanborn maps and a registry for cleaners in the 1940s. After reviewing the historic documents, it was later determined that the word 'dry' was never used before the word 'cleaner' and the 'cleaner' was actually a laundry for the hotel, not a dry cleaner.

Refer to **Tables 1, 2, and 3** for a summary of soil, soil gas and location, depth, matrix and analytical analysis and results. Refer to **Appendix B and C** for a complete soil and soil gas analytical laboratory report.

5.4 Summary – Subsurface Investigation and Contaminant Information

- Fill material was encountered across the property and within the footprint of former structures from below surface to depths ranging between 2.5' to 7.0' feet bgs. This fill consisted mainly of a brown and gray sand with building debris (e.g., brick, concrete, wood, glass, etc.).
- ESGPW's review of data for the 58 soil samples collected for laboratory analysis indicates that exceedances of the applicable residential criteria for any relevant pathway were identified only in those samples collected within fill material or former basement fill (SB-10 5').
- Arsenic, lead, and various PNAs were detected in multiple soil samples at concentrations above the applicable residential direct contact criteria.
- Only volatile PNA (phenanthrene) was detected in multiple soil samples at concentrations above the applicable residential SSVIAC.
- No hazardous substances were detected in any samples above the applicable residential criteria for the particulate soil inhalation pathway.
- No hazardous substances were detected in any samples above the applicable residential criteria for the volatile soil inhalation pathway.

The relevant pathways requiring remedial actions to satisfy the applicable generic cleanup criteria and site-specific criteria for unrestricted residential use for soil are the direct contact pathway and the VIAP.

6.0 Proposed Remedial Actions for Relevant Pathways

Upon taking ownership, Brush Park MHT Limited Dividend Housing Association, LLC will develop the Property with a mixed-use commercial and residential building. The proposed remedial action to eliminate any risks through the volatilization to indoor air or direct contact pathways is excavation and proper disposal of contaminated soil and fill material across the four parcels that comprise the Property.

The submitter plans to remove the fill material across the entire footprint of the Property until native and non-contaminated silty clay soils are encountered. The excavation is anticipated to include the removal of the upper seven feet of soil along the eastern portion of the property (along Brush Street), the upper five feet (deeper in the areas of the former basements) within the central portion (by SB 10), and the upper 2.5 feet within the western portion (towards the existing building next to 269 Winder) of the parcel. Any non-native material soil encounter within building footprints resulting from the backfilling of the basements of former structures will also be completely removed and replaced with documented clean compacted soils.

The exception to the removal of fill soils is a small area measuring approximately 11 by 11 square feet in the northern portion of the Property near the alleyway. This area contains the walls of a former garage or stable, buried approximately 12 inches deep that was determined to be an archaeological feature the City of Detroit Preservation Department is requiring remain in place and undisturbed. Required avoidance of the investigation of soils beneath this semi-surficial archaeological feature has limited the characterization of soils beneath this structure. The submitter will not seek an NFA Report for the portion of the 269 Winder

Street parcel on which this feature exists. The legal description and survey of the Property will be developed to exclude this area if final determination requires this feature to be excluded for the soil source removal excavation.

Verification of soil remediation (VSR) sampling will be conducted during these remedial actions in accordance with the EGLE's "Sampling Strategies and Statistics Training Materials for Part 201 Evaluations (S³TM) Cleanup Criteria" publication dated August 2002. VSR sidewall and floor samples are anticipated to be collected from soil at the Property boundaries, and will be analyzed for MI 10-Metals, VOCs, and PNAs. If VSR sample results indicate the presence of chemicals of concern, additional excavation and VSR sampling will take place. If VSR samples around the SB 10 location or any other non-native soil area have multiple PNAs or VOCs detected, samples will be analyzed for Diesel and Gasoline Range Organic (DRO and GRO) as applicable to determine the percent of NAPL saturation.

Based on the S³TM Cleanup Criteria and the size of the proposed excavation (approximately 38,445 square feet), ESGPW calculated a sample grid interval to facilitate selection of sampling points and sample coverage proportional to the area being sampled during the VSR sampling event. Since the proposed excavation is approximately 0.9 acres, ESGPW utilized the "medium site" equation which resulted in a 27.5-foot grid interval. Based on the anticipated grid interval, a minimum of 28 sidewall and 48 floor samples will be collected from the resulting excavation and submitted for laboratory analyses of arsenic, lead, mercury, VOCs and PNAs. In addition, if visible contamination (non-native fill material) is observed on the sidewalls of areas that cannot be excavated, such as sidewalks, additional soil samples will be collected to further supplement the VSR sampling. Following the remedial excavation to native silty clay soils and VSR sampling activities, the exported material will be replaced with documented clean backfill. Soil will be replaced in 9" inch lifts and will be compacted as per the geotechnical report specifications. Any remaining surface soil associated with the archeological feature will remain under the long-term cover of the future asphalt paved parking lot.

7.0 Conclusion

ESGPW has prepared this ResAP on behalf of Brush Park MHT Limited Dividend Housing Association, LLC for the properties located at 269, 281, 291 Winder Street and 2515 Brush Street in Detroit, Wayne County, Michigan. This ResAP identifies the remedial actions proposed to be undertaken by the prospective property owner to satisfy cleanup criteria for unrestricted residential use of the Property for the following:

Environmental Media – Soil

Hazardous Substances – VOCs, PNAs, Arsenic, Lead, and Mercury

Relevant Pathways – Soil Volatilization to Indoor Air, Direct Contact, Particulate Soil Inhalation, and Volatile Soil Inhalation

Remedial actions will be conducted to address the potential for unacceptable risk as part of the redevelopment of the Subject Property. Following the completion of the response activities proposed in this ResAP, all contamination exceeding the applicable GRCC or SSVIAC and/or regional background concentrations as appropriate will have been removed from the Subject Property. These activities will allow for future safe reuse of the Subject Property for residential purposes. The objective of the remedial actions proposed in this ResAP is to allow for an unrestricted residential NFA Report for soil on the Property.

8.0 Request for EGLE Review

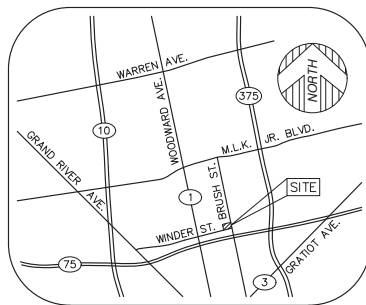
An approval of this ResAP is being requested of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) under Section 20114b. (1) of Part 201, of the NREPA in support of a 9% tax credit and project-based voucher program through the Michigan State Housing Development Authority (MSHDA) and to facilitate a potential use of United States Housing and Development (HUD) funding sources (Home Funds) provided by the City of Detroit.

9.0 Signatures of Environmental Professional

The following individual authored this Report.



Steven K. Guyot, EP
Senior Project Manager
ESGPW, LLC
Phone: 734.649.9681
SkGuyot@gmail.com



VICINITY MAP
(NOT TO SCALE)

PARKING
NO MARKED PARKING ON SITE.

PARCEL AREA
39,501± SQUARE FEET = 0.907± ACRES

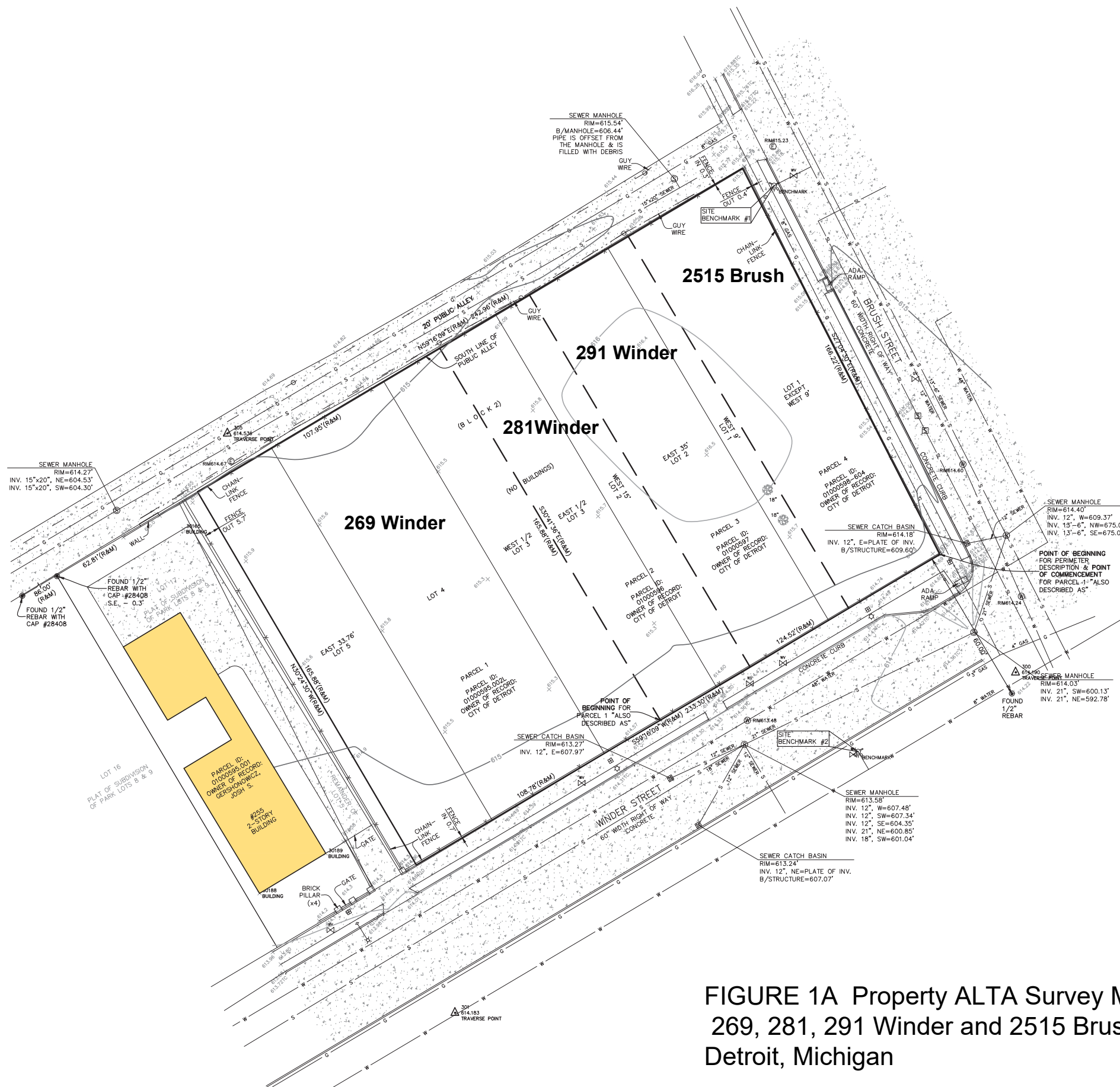
BASIS OF BEARING
SOUTH 27°04'30" EAST, BEING THE SOUTHWESTERLY RIGHT OF WAY LINE OF BRUSH STREET, AS DESCRIBED.

BENCHMARK
SITE BENCHMARK #1
ARROW ON HYDRANT IN BRUSH STREET RIGHT OF WAY.
ELEVATION = 617.95' (NAVD 88)
SITE BENCHMARK #2
ARROW ON HYDRANT IN WINDER STREET RIGHT OF WAY.
ELEVATION = 616.74' (NAVD 88)

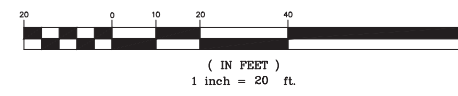
SURVEYOR'S NOTE
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

LEGEND

●	FOUND MONUMENT (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
⊙	ELECTRIC MANHOLE
⊙	HAND HOLE
⊙	UTILITY POLE
⊙	GAS VALVE
⊙	LIGHT POLE WITH STREET LAMP
⊙	SANITARY MANHOLE
⊙	SQUARE CATCH BASIN
⊙	FIRE HYDRANT
⊙	WATER GATE MANHOLE
⊙	WATER VALVE
⊙	STEAM VAULT
⊙	LIGHTPOST/LAMP POST
⊙	SINGLE POST SIGN
⊙	DECIDUOUS TREE (AS NOTED)
—	PARCEL BOUNDARY LINE
—	PLATTED LOT LINE
—	ADJOINER PARCEL LINE
—	BUILDING
—	CONCRETE CURB
—	EDGE OF CONCRETE (CONC.)
—	FENCE (AS NOTED)
—	WALL (AS NOTED)
—	OVERHEAD UTILITY LINE
—	GAS LINE
—	SEWER LINE
—	WATER LINE
—	STEAM LINE
■	BUILDING HATCH
■	CONCRETE HATCH



GRAPHIC SCALE



PROPERTY DESCRIPTION
LAND SITUATED IN THE CITY OF DETROIT, COUNTY OF WAYNE, STATE OF MICHIGAN, DESCRIBED AS:

PARCEL 1:
THE EAST 33.76 FEET OF LOT 5, ALL OF LOT 4 AND THE WEST 1/2 OF LOT 3, BLOCK 2 OF BRUSH SUBDIVISION OF THAT PART OF BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8 AND 9 ACCORDING TO THE PLAT THEREOF AS RECORDED IN L1 P118 PLATS, W C R

A/K/A 269 WINDER
ALSO DESCRIBED AS:
LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN BEING THE EAST 33.76 FEET OF LOT 5, ALL OF LOT 4 AND THE WEST 1/2 OF LOT 3, BLOCK 2 OF BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8 AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE WEST LINE OF BRUSH STREET (60 FEET WIDE) AND THE NORTH LINE OF WINDER STREET (60 FEET WIDE), ALSO BEING THE SOUTHEAST CORNER OF LOT 1 OF BRUSH SUBDIVISION OF THAT PART OF BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8 AND 9; THENCE S59°16'09"W 24.52 FEET ALONG SAID NORTH LINE OF WINDER STREET TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID NORTH LINE, S59°16'09"W 108.78 FEET; THENCE N30°24'30"W 165.88 FEET TO THE SOUTH LINE OF A PUBLIC ALLEY (20 FEET WIDE); THENCE ALONG SAID SOUTH LINE, S59°16'09"E 107.95 FEET; THENCE S30°41'36"E 163.88 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.412 ACRES.

PARCEL 2:
THE EAST 1/2 OF LOT 3 AND THE WEST 15 FEET OF LOT 2, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 281 N. WINDER
TAX NUMBER: 01000596

PARCEL 3:
THE WEST 9 FEET OF LOT 1 AND THE EAST 35 FEET OF LOT 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 291 WINDER
TAX NUMBER: 01000597

PARCEL 4:
LOT 1, EXCEPT THE WEST 9 FEET, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 2515 BRUSH
TAX NUMBER: 01000598-604

THE PERIMETER DESCRIPTION BELOW COMPRISES PARCELS 1 THROUGH 4 AND A PORTION OF PARCEL 5.

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN BEING ALL OF LOTS 1 THROUGH 4 AND PART OF LOT 5 BLOCK 2 BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS; AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WEST LINE OF BRUSH STREET (60 FEET WIDE) AND THE NORTH LINE OF WINDER STREET (60 FEET WIDE); BEING THE SOUTHEAST CORNER OF SAID LOT 1; THENCE S59°16'09"W 233.30 FEET ALONG THE NORTH LINE OF WINDER STREET; THENCE N30°24'30"W 165.88 FEET TO THE SOUTH LINE OF A PUBLIC ALLEY (20 FEET WIDE); THENCE S59°16'09"E 242.96 FEET ALONG SAID SOUTH ALLEY LINE TO THE NORTHEAST CORNER OF SAID LOT 1 AND THE WEST LINE OF BRUSH STREET; THENCE S27°04'30"E 166.22 FEET ALONG SAID WEST LINE TO THE POINT OF BEGINNING AND CONTAINING 0.907 ACRES.

TITLE REPORT NOTE

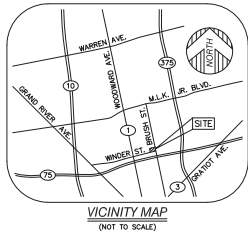
ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT No. 7040276, DATED NOVEMBER 04, 2020, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.
2. TERMS AND CONDITIONS OF THE MODIFIED DEVELOPMENT PLAN BRUSH PARK REHABILITATION PROJECT, RECORDED IN LIBER 28459, PAGE 602. (SEE DOCUMENT FOR TERMS AND CONDITIONS)
3. TERMS AND CONDITIONS OF A RESOLUTION RECORDED IN LIBER 40535, PAGE 209. (SEE DOCUMENT FOR TERMS AND CONDITIONS)
4. TERMS AND CONDITIONS OF A RESOLUTION RECORDED IN LIBER 29551, PAGE 1900. (SEE DOCUMENT FOR TERMS AND CONDITIONS)

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ALTA / NSPS LAND TITLE SURVEY
PREPARED FOR: MHT HOUSING, INC.
269 & 291 WINDER AND 2515 BRUSH, DETROIT, MICHIGAN

NO.	DATE	BY	REVISION	DESCRIPTION
1	11-03-20	JV		RECEIVED UPDATED TITLE WORK

FIGURE 1A Property ALTA Survey Map
269, 281, 291 Winder and 2515 Brush Street
Detroit, Michigan



PARKING
NO MARKED PARKING ON SITE.

PARCEL AREA
39,501.8 SQUARE FEET @ 0.9078 ACRES

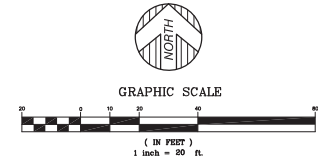
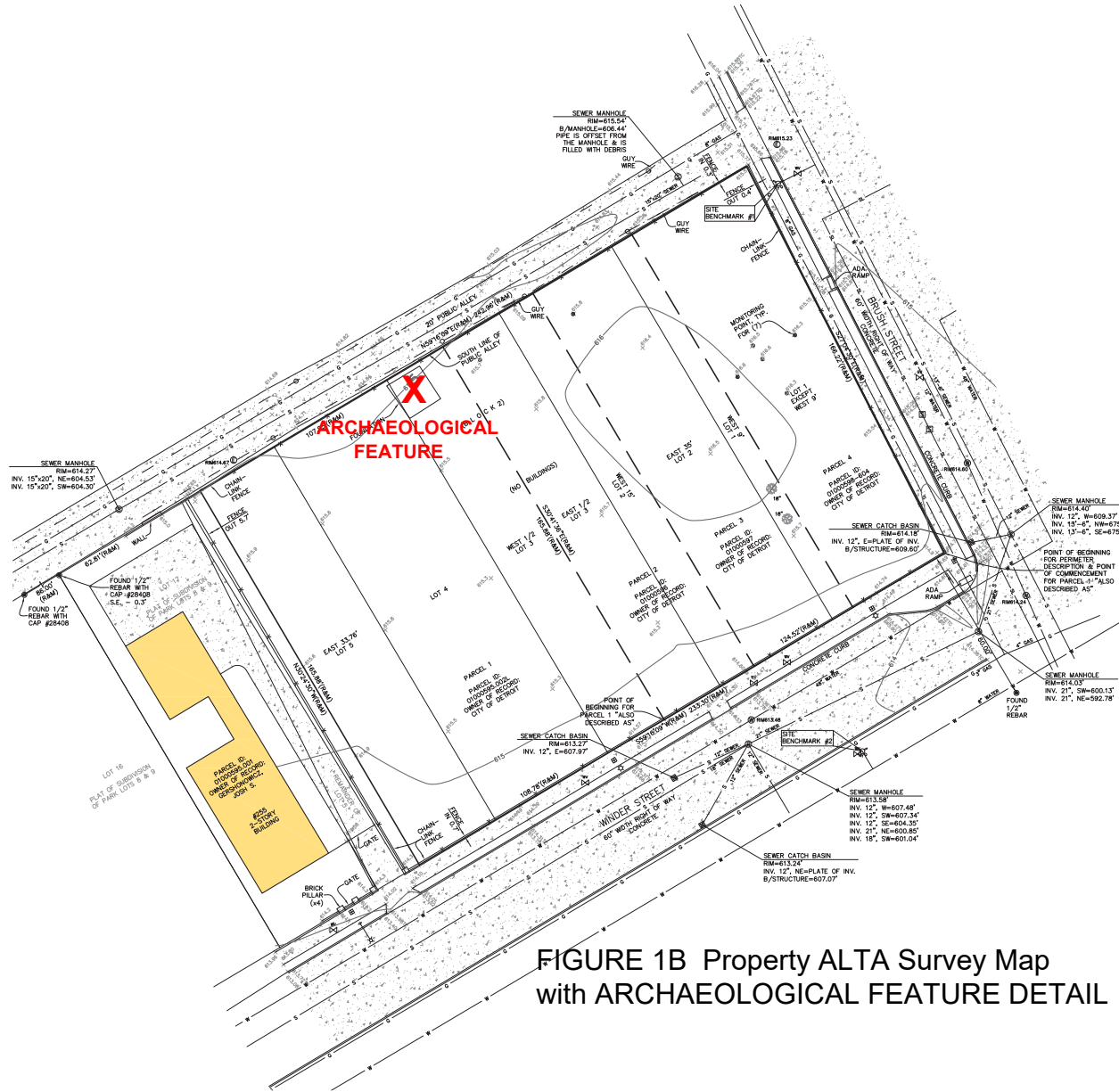
BASIS OF BEARING
SOUTH 27°34'30" EAST, BEING THE SOUTHWESTERLY RIGHT OF WAY LINE OF BRUSH STREET, AS DESCRIBED.

BENCHMARK
SITE BENCHMARK #1
RIM=614.27
ARROW ON HYDRANT IN BRUSH STREET RIGHT OF WAY.
ELEVATION = 617.80 (NAVD 80)
SITE BENCHMARK #2
ARROW ON HYDRANT IN WINDER STREET RIGHT OF WAY.
ELEVATION = 616.74 (NAVD 80)

SURVEYOR'S NOTE
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS AND SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DEES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT HYDRAULICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

LEGEND

(M)	FOUND MONUMENT (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
(E)	ELECTRIC MANHOLE
(H)	HAND HOLE
(U)	UTILITY POLE
(G)	GAS VALVE
(L)	LIGHT POLE WITH STREET LAMP
(S)	SANITARY MANHOLE
(C)	SQUARE CATCH BASIN
(F)	FIRE HYDRANT
(W)	WATER GATE MANHOLE
(V)	WATER VALVE
(S)	STEAM VAULT
(L)	LIGHTPOST/LAMP POST
(S)	SINGLE POST SIGN
(M)	MONITORING POINT
(D)	DECIDUOUS TREE (AS NOTED)
(P)	PARCEL BOUNDARY LINE
(L)	PLATTED LOT LINE
(A)	ADJOINER PARCEL LINE
(B)	BUILDING
(C)	CONCRETE CURB
(X)	EDGE OF CONCRETE (CONC.)
(*)	FENCE (AS NOTED)
(W)	WALL (AS NOTED)
(O)	OVERHEAD UTILITY LINE
(G)	GAS LINE
(S)	SEWER LINE
(W)	WATER LINE
(S)	STEAM LINE
(H)	BUILDING HATCH
(C)	CONCRETE HATCH



PROPERTY DESCRIPTION
LAND SITUATED IN THE CITY OF DETROIT, COUNTY OF WAYNE, STATE OF MICHIGAN, DESCRIBED AS:
PARCEL 1:
THE EAST 33.76 FEET OF LOT 5, ALL OF LOT 4 AND THE WEST 1/2 OF LOT 3, BLOCK 2 OF BRUSH SUBDIVISION OF THAT PART OF BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 ACCORDING TO THE PLAT THEREOF AS RECORDED IN L11818 PLATS, W.C.R.
A/X/A 269 WINDER ALSO DESCRIBED AS:
LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN BEING THE EAST 33.76 FEET OF LOT 5, ALL OF LOT 4 AND THE WEST 1/2 OF LOT 3, BLOCK 2 OF BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS COMMENCING AT THE INTERSECTION OF THE WEST LINE OF BRUSH STREET (60 FEET WIDE) AND THE NORTH LINE OF WINDER STREET (60 FEET WIDE), ALSO BEING THE SOUTHWEST CORNER OF LOT 1, OF BRUSH SUBDIVISION OF THAT PART OF BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9; THENCE S59°16'09" W 24.52 FEET ALONG SAID NORTH LINE OF WINDER STREET, TO THE POINT OF BEGINNING, THENCE CONTINUING ALONG SAID NORTH LINE, S59°16'09" W 108.78 FEET; THENCE N03°24'30" W 165.88 FEET TO THE SOUTH LINE OF A PUBLIC ALLEY (20 FEET WIDE), THENCE ALONG SAID SOUTH LINE, N89°04'01" E 107.65 FEET; THENCE S53°41'36" E 165.88 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.412 ACRES.
PARCEL 2:
THE EAST 1/2 OF LOT 3 AND THE WEST 15 FEET OF LOT 2, BLOCK 2 BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 291 WINDER
TAX NUMBER: 0100098
PARCEL 3:
THE WEST 1/2 OF LOT 1 AND THE EAST 35 FEET OF LOT 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 291 WINDER
TAX NUMBER: 0100097
PARCEL 4:
LOT 1, EXCEPT THE WEST 9 FEET, BLOCK 2 BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.
ADDRESS: 291 WINDER
TAX NUMBER: 0100098-604
THE PERMETER DESCRIPTION BELOW COMPRISES PARCELS 1 THROUGH 4 AND A PORTION OF PARCEL 5.
LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN BEING ALL OF LOTS 1 THROUGH 4 AND PART OF LOT 5, BLOCK 2 BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WEST LINE OF BRUSH STREET (60 FEET WIDE) AND THE NORTH LINE OF WINDER STREET (60 FEET WIDE), BEING THE SOUTHWEST CORNER OF SAID LOT 1, THENCE S59°16'09" W 233.50 FEET ALONG THE NORTH LINE OF WINDER STREET; THENCE N03°24'30" W 165.88 FEET ALONG THE NORTH LINE OF A PUBLIC ALLEY (20 FEET WIDE), THENCE N89°04'01" E 242.96 FEET ALONG SAID SOUTH ALLEY LINE TO THE NORTHEAST CORNER OF SAID LOT 1, THENCE S27°04'30" W 166.22 FEET ALONG SAID WEST LINE TO THE POINT OF BEGINNING AND CONTAINING 0.907 ACRES.

TITLE REPORT NOTE
ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMENT NO. 7042576, DATED NOVEMBER 04, 2003, AND REVISED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.
2. TERMS AND CONDITIONS OF THE MODIFIED DEVELOPMENT PLAN BRUSH PARK REHABILITATION PROJECT, RECORDED IN LIBER 29459, PAGE 602. (SEE DOCUMENT FOR TERMS AND CONDITIONS)
3. TERMS AND CONDITIONS OF A RESOLUTION RECORDED IN LIBER 40535, PAGE 209. (SEE DOCUMENT FOR TERMS AND CONDITIONS)
4. TERMS AND CONDITIONS OF A RESOLUTION RECORDED IN LIBER 29551, PAGE 1900. (SEE DOCUMENT FOR TERMS AND CONDITIONS)

SURVEYOR'S CERTIFICATION
TO MHT HOUSING, INC., OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY AND CIGNARE TITLE SERVICES, LLC:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2006 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 3, 4, 5, 7A, 8, 9, AND 11 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON DECEMBER 27, 2018.
DATE OF PLAT OR MAP: JANUARY 6, 2020

ANTHONY T. SYKO, JR., P.S.
PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 47978
22556 GRATIOT AVE., EASTPOINTE, MI 48021
Tsyko@kentec-survey.com

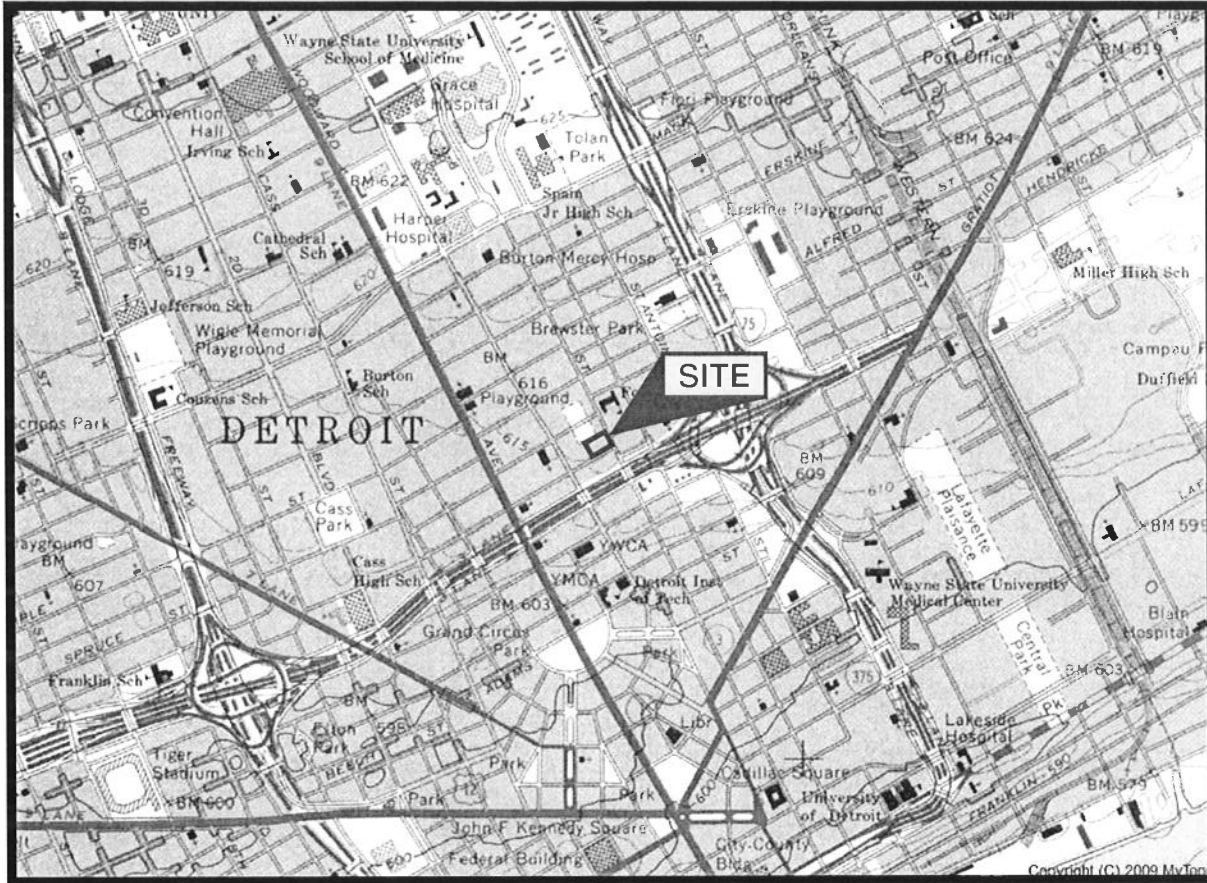
FIGURE 1B Property ALTA Survey Map with ARCHAEOLOGICAL FEATURE DETAIL

KEM-TEC PROFESSIONAL ENGINEERING, SURVEYING & ENVIRONMENTAL SERVICES
Grand Blanc, MI 48030
Ann Arbor, MI 48106
Eastpointe, MI 48021
www.kentecgroup.com/contact-us

ALTA / NSPS LAND TITLE SURVEY
PREPARED FOR: MHT HOUSING, INC., 269 & 291 WINDER AND 2515 BRUSH, DETROIT, MICHIGAN

NO.	DATE	BY	DESCRIPTION
1	11-03-20	AV	RECEIVED UPDATED TITLE WORK
2	01-07-20	EM	ASSED, EVALUATION AND MONITORING POINTS
3	01-07-20	EM	RECEIVED UPDATED TITLE WORK
4	01-07-20	AV	REVISION
5	01-07-20	AV	REVISION

DETROIT QUADRANGLE
MICHIGAN - WAYNE COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.2 S.-R.12 E.

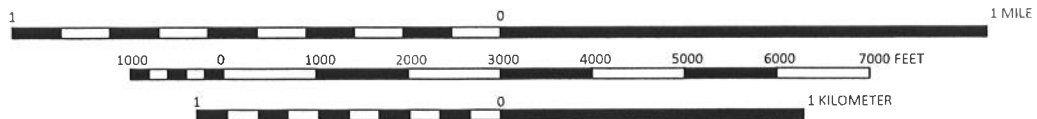


IMAGE TAKEN FROM 1968 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1973 & 1980



**FIGURE 1C TOPOGRAPHIC SITE LOCATION
MAP 269, 281, 291 Winder and 2515 Brush
Street Detroit, Michigan**

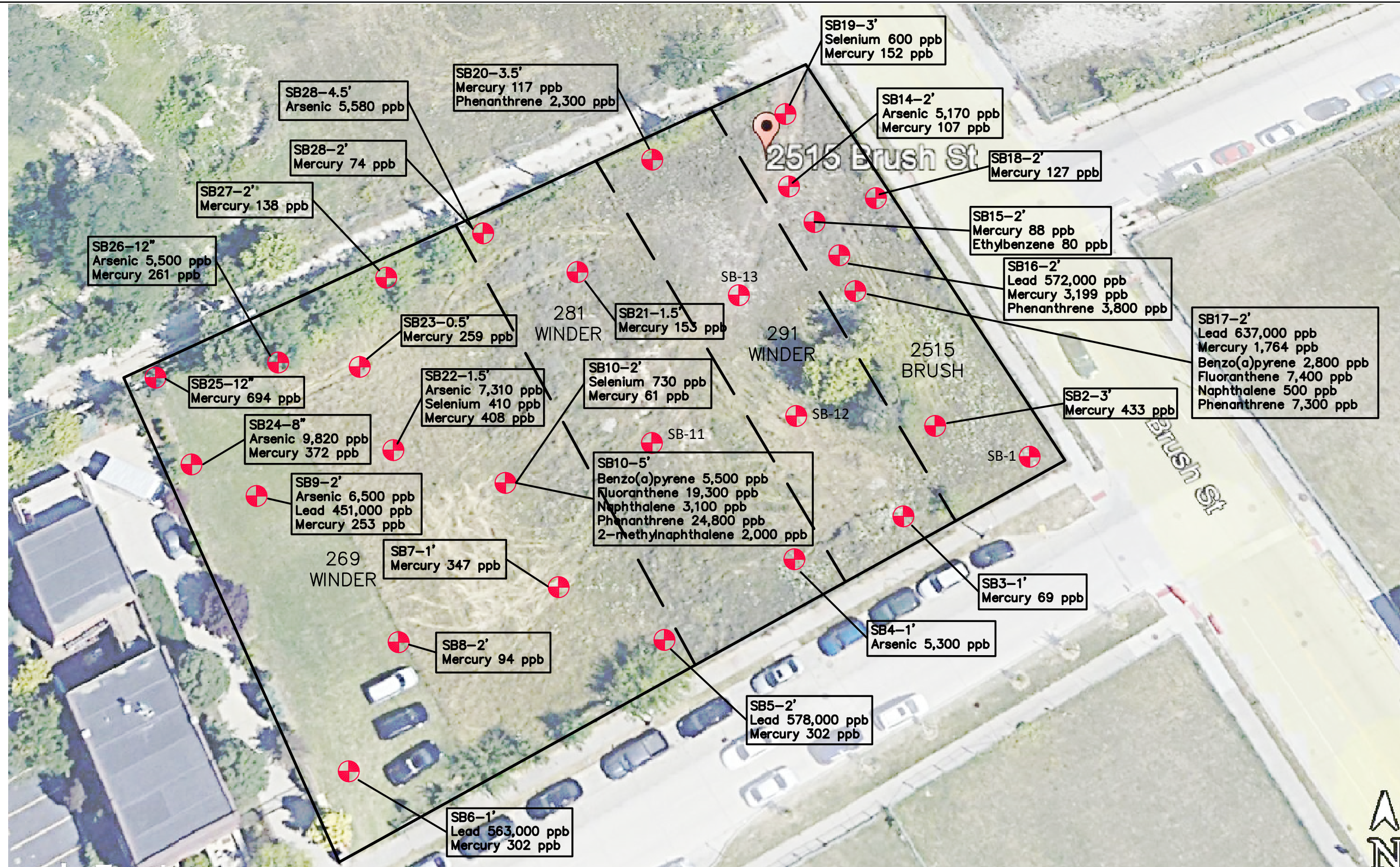


FIGURE 2 Soil Sample Exceedances

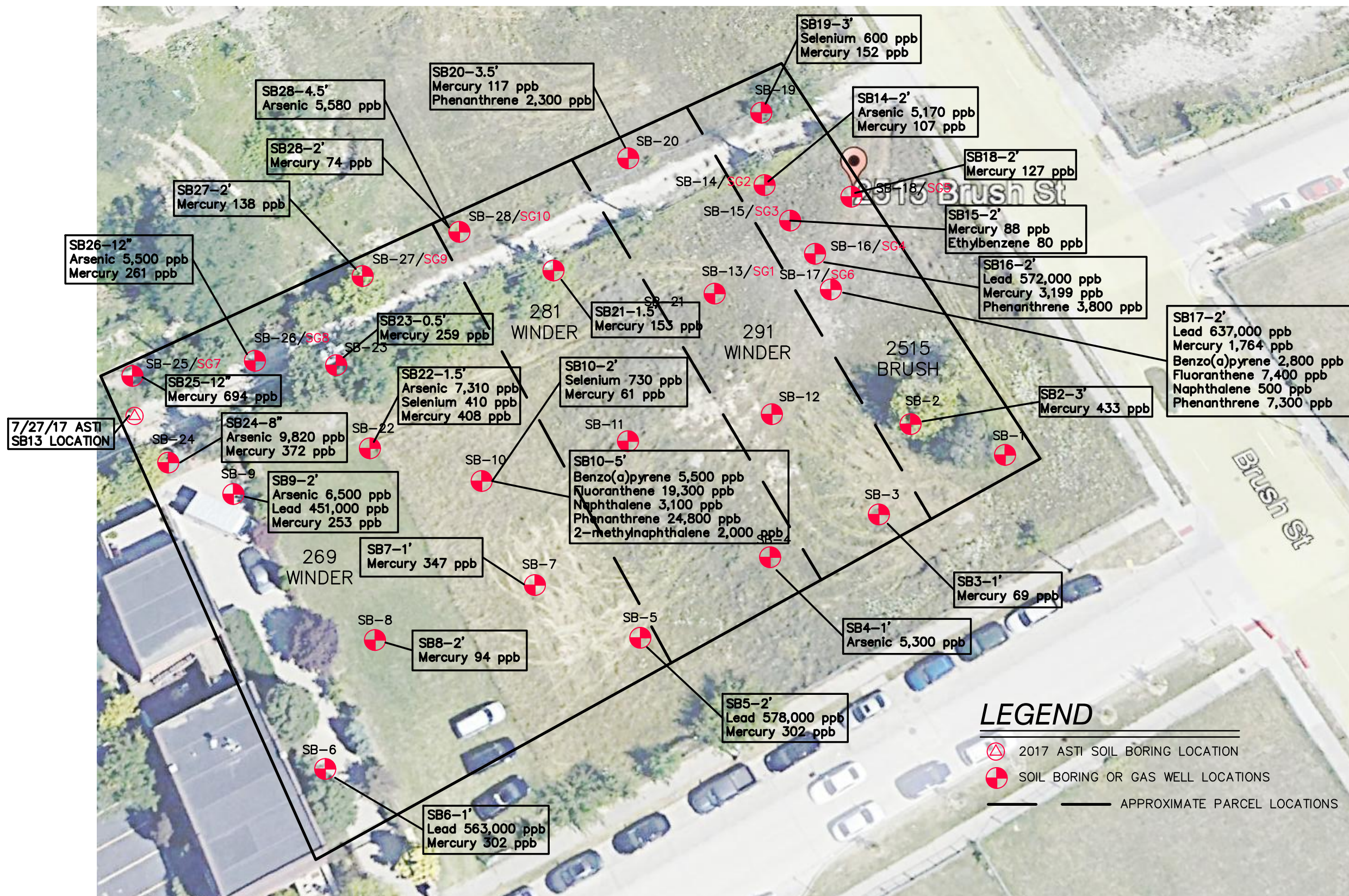
BRUSH PARK MHT LIMITED DIVIDEND HOUSING ASSOCIATION

DATE: FEBRUARY 2022
JOB NO.: 21-082




SOIL BORING LOCATIONS AND EXCEEDENCES
269, 281, 291 WINDER AND 2515 BRUSH STREET
DETROIT, MICHIGAN



ENVIRONMENTAL SERVICES
18640 MACK AVENUE NO. 1029
GROSSE POINTE WOODS, MICHIGAN
48236



LEGEND

-  2017 ASTI SOIL BORING LOCATION
-  SOIL BORING OR GAS WELL LOCATIONS
-  APPROXIMATE PARCEL LOCATIONS

BRUSH PARK MHT LIMITED DIVIDEND HOUSING ASSOCIATION

DATE: FEBRUARY 2022
JOB NO.: 21-082

SOIL BORING LOCATIONS AND EXCEEDENCES
269, 281, 291 WINDER AND 2515 BRUSH STREET
DETROIT, MICHIGAN



ENVIRONMENTAL SERVICES
18640 MACK AVENUE NO. 1029
GROSSE POINTE WOODS, MICHIGAN
48236



FIGURE 3 SOIL GAS DETECTIONS (NO EXCEEDANCES)

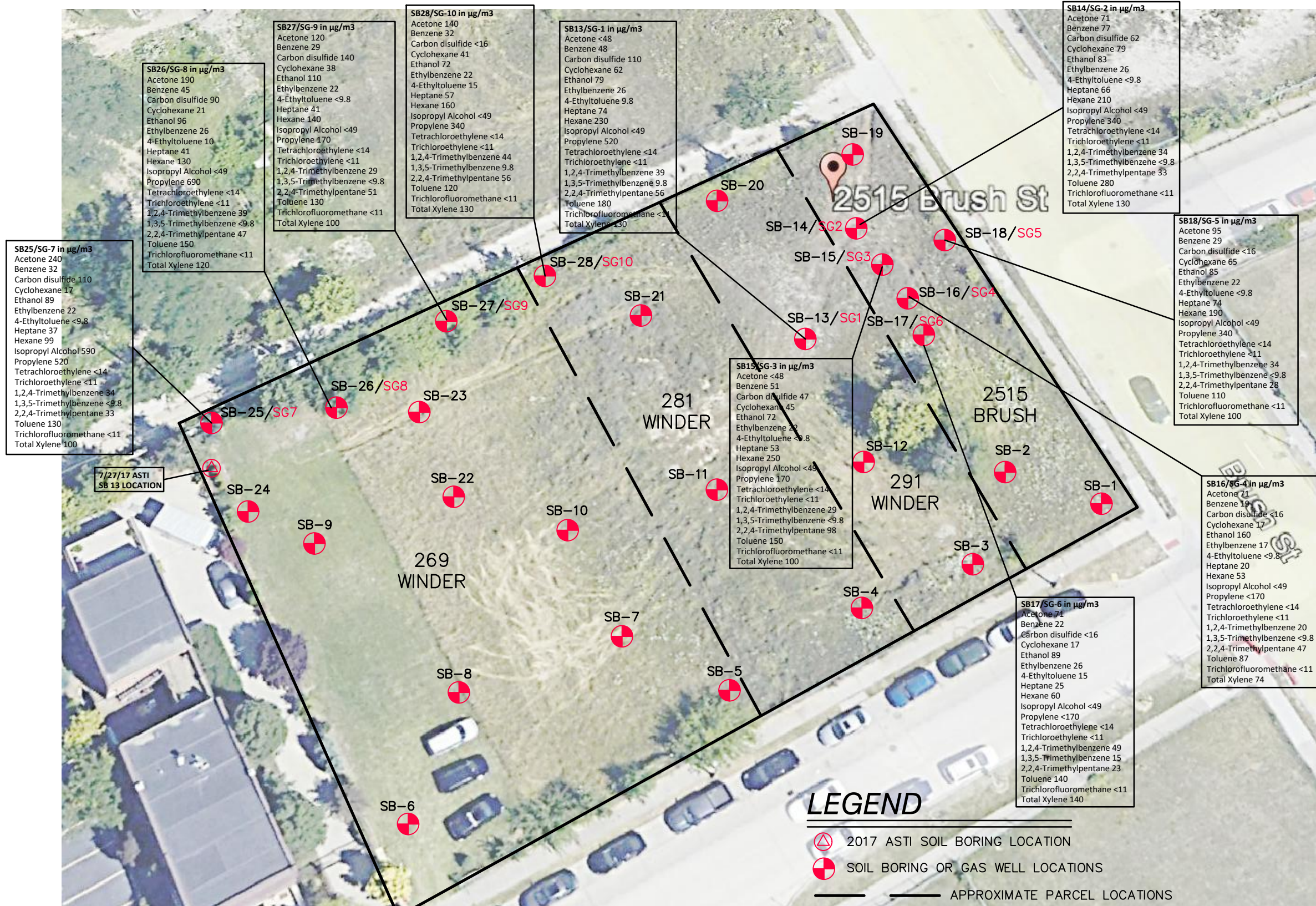
BRUSH PARK MHT LIMITED DIVIDEND HOUSING ASSOCIATION

DATE: FEBRUARY 2022
JOB NO.: 21-082

SOIL BORING LOCATIONS AND EXCEEDANCES
269, 281, 291 WINDER AND 2515 BRUSH STREET
DETROIT, MICHIGAN



ENVIRONMENTAL SERVICES
18640 MACK AVENUE NO. 1029
GROSSE POINTE WOODS, MICHIGAN
48236



**BRUSH PARK MHT LIMITED DIVIDEND
 HOUSING ASSOCIATION**

DATE: FEBRUARY 2022
 JOB NO.: 21-082

SOIL BORING LOCATIONS AND EXCEEDENCES
 269, 281, 291 WINDER AND 2515 BRUSH STREET
 DETROIT, MICHIGAN



ENVIRONMENTAL SERVICES
 18640 MACK AVENUE NO. 1029
 GROSSE POINTE WOODS, MICHIGAN
 48236

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples													
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-1	SB-1	SB-2	SB-2	SB-3	SB-3	SB-4	SB-4	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
Sample Depth (in feet)									1.0	5.0	3.0	6.0	1.0	5.0	1.0	5.0	2.0	4.0	1.0	5.0	1.0	6.0
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																						
Acetone	67641	SW 846 8260B	NA	15,000	34,000	2.3E+7	—	—	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	107131	SW 846 8260B	NA	2,800	2.6E+05	16,000	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	71432	SW 846 8260B	NA	100	4,000	1.8E+5	1.7 (M) ca	1.7 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Bromobenzene	108861	SW 846 8260B	NA	550	NA	5.4E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	75274	SW 846 8260B	NA	1,600	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform	75252	SW 846 8260B	NA	1,600	ID	8.2E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromomethane	74839	SW 846 8260B	NA	200	100	3.2E+5	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
2-Butanone	78933	SW 846 8260B	NA	2.6E+05	44,000	1.2E+8 (C,DD)	—	—	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980
Carbon disulfide	75150	SW 846 8260B	NA	16,000	ID	7.2E+6 (C,DD)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Carbon tetrachloride	56235	SW 846 8260B	NA	100	760(X)	96,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chlorobenzene	108907	SW 846 8260B	NA	2,000	500	4.3E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloroethane	75003	SW 846 8260B	NA	8,600	22,000(X)	2.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Chloroform	67663	SW 846 8260B	NA	1,600 (W)	7,000	1.2E+6	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloromethane (I)	74873	SW 846 8260B	NA	5,200	ID	1.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
cis-1,2-Dichloroethylene	156592	SW 846 8260B	NA	1,400	12,000	2.5E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dibromo-3-Chloropropane	96128	SW 846 8260B	NA	10 (M); 4.0	ID	4,400 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Dibromochloromethane	124481	SW 846 8260B	NA	1,600 (W)	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	74953	SW 846 8260B	NA	1,600	NA	2.5E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,2-Dichlorobenzene	95501	SW 846 8260B	NA	14,000	280	1.9E+7 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	541731	SW 846 8260B	NA	170	680	2.0E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	106467	SW 846 8260B	NA	1,700	360	4.0E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	75718	SW 846 8260B	NA	95,000	ID	5.2E+7 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	75343	SW 846 8260B	NA	18,000	15,000	2.7E+7 (C)	2.6 (M) ca	2.6 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloroethane	107062	SW 846 8260B	NA	100	7,200 (X)	91,000	0.82 (M) ca	0.82 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1-Dichloroethene (I)	75354	SW 846 8260B	NA	140	2,600	2.0E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloropropane (I)	78875	SW 846 8260B	NA	100	4,600(X)	1.4E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Diethyl ether	60297	SW 846 8260B	NA	200	ID	1.1E+8 (C)	350 nc	350 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Ethyl benzene	100414	SW 846 8260B	NA	1,500	360	2.2E+7 (C)	12 (M) ca	12 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Isopropylbenzene	98828	SW 846 8260B	NA	9,100	3,200	2.5E+7 (C)	3.8 (M) ca	3.8 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Methyl-tert-butyl ether (MTBE)	1634044	SW 846 8260B	NA	800	1.4E+5	1.5E+6	74 (M) ca	74 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
4-Methyl-2-pentanone (MIBK) (I)	108101	SW 846 8260B	NA	36,000	ID	5.6E+7 (C)	—	—	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000
Methylene chloride	75092	SW 846 8260B	NA	100	30,000(X)	1.3E+6	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene	104518	SW 846 8260B	NA	1,600	ID	2.50E+06	560 nc	550 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
n-Propylbenzene	103651	SW 846 8260B	NA	1,600	ID	2.5E+6	1,800 (DD) dev	1,800 (DD) dev	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
sec-Butylbenzene	135988	SW 846 8260B	NA	1,600	ID	2.5E+6	3,800 nc	3,800 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Styrene	100425	SW 846 8260B	NA	2,700	2,100 (X)	4.0E+5	150 ca	150 ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
tert-Butylbenzene (I)	98066	SW 846 8260B	NA	1,600	ID	2.5E+6	0.64 (M) nc	0.64 (M) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,1,2-Tetrachloroethane	630206	SW 846 8260B	NA	1,500	ID	4.8E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79345	SW 846 8260B	NA	170	1,600(X)	53,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Tetrachloroethene	127184	SW 846 8260B	NA	100	1,200(X)	2.0E+5 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Toluene	108883	SW 846 8260B	NA	16,000	5,400	5.0E+7 (C)	3,700 nc	3,700 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	100	<70	<70
1,2,4-Trichlorobenzene	120821	SW 846 8260B	NA	4,200	5,900(X)	9.9E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples														
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-8	SB-8	SB-9	SB-9	SB-10	SB-10	SB-11	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14	SB-14	SB-15
Sample Depth (in feet)									2.0	5.0	2.0	5.0	2.0	5.0	3.0	5.0	2.0	5.0	2.0	4.0	2	4	2
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																							
Acetone	67641	SW 846 8260B	NA	15,000	34,000	2.3E+7	—	—	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	107131	SW 846 8260B	NA	2,800	2.6E+05	16,000	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	71432	SW 846 8260B	NA	100	4,000	1.8E+5	1.7 (M) ca	1.7 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Bromobenzene	108861	SW 846 8260B	NA	550	NA	5.4E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	75274	SW 846 8260B	NA	1,600	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform	75252	SW 846 8260B	NA	1,600	ID	8.2E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromomethane	74839	SW 846 8260B	NA	200	100	3.2E+5	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
2-Butanone	78933	SW 846 8260B	NA	2.6E+05	44,000	1.2E+8 (C,DD)	—	—	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980
Carbon disulfide	75150	SW 846 8260B	NA	16,000	ID	7.2E+6 (C,DD)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Carbon tetrachloride	56235	SW 846 8260B	NA	100	760(X)	96,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chlorobenzene	108907	SW 846 8260B	NA	2,000	500	4.3E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloroethane	75003	SW 846 8260B	NA	8,600	22,000(X)	2.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Chloroform	67663	SW 846 8260B	NA	1,600 (W)	7,000	1.2E+6	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloromethane (l)	74873	SW 846 8260B	NA	5,200	ID	1.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
cis-1,2-Dichloroethylene	156592	SW 846 8260B	NA	1,400	12,000	2.5E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dibromo-3-Chloropropane	96128	SW 846 8260B	NA	10 (M); 4.0	ID	4,400 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Dibromochloromethane	124481	SW 846 8260B	NA	1,600 (W)	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	74953	SW 846 8260B	NA	1,600	NA	2.5E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,2-Dichlorobenzene	95501	SW 846 8260B	NA	14,000	280	1.9E+7 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	541731	SW 846 8260B	NA	170	680	2.0E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	106467	SW 846 8260B	NA	1,700	360	4.0E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	75718	SW 846 8260B	NA	95,000	ID	5.2E+7 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	75343	SW 846 8260B	NA	18,000	15,000	2.7E+7 (C)	2.6 (M) ca	2.6 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloroethane	107062	SW 846 8260B	NA	100	7,200 (X)	91,000	0.82 (M) ca	0.82 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1-Dichloroethene (l)	75354	SW 846 8260B	NA	140	2,600	2.0E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloropropane (l)	78875	SW 846 8260B	NA	100	4,600(X)	1.4E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Diethyl ether	60297	SW 846 8260B	NA	200	ID	1.1E+8 (C)	350 nc	350 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Ethyl benzene	100414	SW 846 8260B	NA	1,500	360	2.2E+7 (C)	12 (M) ca	12 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	80
Isopropylbenzene	98828	SW 846 8260B	NA	9,100	3,200	2.5E+7 (C)	3.8 (M) ca	3.8 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Methyl-tert-butyl ether (MTBE)	1634044	SW 846 8260B	NA	800	1.4E+5	1.5E+6	74 (M) ca	74 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
4-Methyl-2-pentanone (MIBK) (l)	108101	SW 846 8260B	NA	36,000	ID	5.6E+7 (C)	—	—	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000
Methylene chloride	75092	SW 846 8260B	NA	100	30,000(X)	1.3E+6	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene	104518	SW 846 8260B	NA	1,600	ID	2.50E+06	560 nc	550 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
n-Propylbenzene	103651	SW 846 8260B	NA	1,600	ID	2.5E+6	1,800 (DD) dev	1,800 (DD) dev	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
sec-Butylbenzene	135988	SW 846 8260B	NA	1,600	ID	2.5E+6	3,800 nc	3,800 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Styrene	100425	SW 846 8260B	NA	2,700	2,100 (X)	4.0E+5	150 ca	150 ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
tert-Butylbenzene (l)	98066	SW 846 8260B	NA	1,600	ID	2.5E+6	0.64 (M) nc	0.64 (M) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,1,2-Tetrachloroethane	630206	SW 846 8260B	NA	1,500	ID	4.8E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79345	SW 846 8260B	NA	170	1,600(X)	53,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Tetrachloroethene	127184	SW 846 8260B	NA	100	1,200(X)	2.0E+5 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Toluene	108883	SW 846 8260B	NA	16,000	5,400	5.0E+7 (C)	3,700 nc	3,700 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	80
1,2,4-Trichlorobenzene	120821	SW 846 8260B	NA	4,200	5,900(X)	9.9E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples														
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-15	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18	SB-19	SB-19	SB-20	SB-20	SB-21	SB-21	SB-22	SB-22
Sample Depth (in feet)									5	2	5	2	4.5	2	5.0	3.0	5.0	3.5	5.0	3.5	5.0	1.5	4.0
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																							
Acetone	67641	SW 846 8260B	NA	15,000	34,000	2.3E+7	—	—	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	107131	SW 846 8260B	NA	2,800	2.6E+05	16,000	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	71432	SW 846 8260B	NA	100	4,000	1.8E+5	1.7 (M) ca	1.7 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Bromobenzene	108861	SW 846 8260B	NA	550	NA	5.4E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	75274	SW 846 8260B	NA	1,600	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform	75252	SW 846 8260B	NA	1,600	ID	8.2E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromomethane	74839	SW 846 8260B	NA	200	100	3.2E+5	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
2-Butanone	78933	SW 846 8260B	NA	2.6E+05	44,000	1.2E+8 (C,DD)	—	—	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980
Carbon disulfide	75150	SW 846 8260B	NA	16,000	ID	7.2E+6 (C,DD)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Carbon tetrachloride	56235	SW 846 8260B	NA	100	760(X)	96,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chlorobenzene	108907	SW 846 8260B	NA	2,000	500	4.3E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloroethane	75003	SW 846 8260B	NA	8,600	22,000(X)	2.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Chloroform	67663	SW 846 8260B	NA	1,600 (W)	7,000	1.2E+6	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloromethane (l)	74873	SW 846 8260B	NA	5,200	ID	1.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
cis-1,2-Dichloroethylene	156592	SW 846 8260B	NA	1,400	12,000	2.5E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dibromo-3-Chloropropane	96128	SW 846 8260B	NA	10 (M); 4.0	ID	4,400 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Dibromochloromethane	124481	SW 846 8260B	NA	1,600 (W)	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	74953	SW 846 8260B	NA	1,600	NA	2.5E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,2-Dichlorobenzene	95501	SW 846 8260B	NA	14,000	280	1.9E+7 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	541731	SW 846 8260B	NA	170	680	2.0E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	106467	SW 846 8260B	NA	1,700	360	4.0E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	75718	SW 846 8260B	NA	95,000	ID	5.2E+7 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	75343	SW 846 8260B	NA	18,000	15,000	2.7E+7 (C)	2.6 (M) ca	2.6 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloroethane	107062	SW 846 8260B	NA	100	7,200 (X)	91,000	0.82 (M) ca	0.82 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1-Dichloroethene (l)	75354	SW 846 8260B	NA	140	2,600	2.0E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloropropane (l)	78875	SW 846 8260B	NA	100	4,600(X)	1.4E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Diethyl ether	60297	SW 846 8260B	NA	200	ID	1.1E+8 (C)	350 nc	350 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Ethyl benzene	100414	SW 846 8260B	NA	1,500	360	2.2E+7 (C)	12 (M) ca	12 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Isopropylbenzene	98828	SW 846 8260B	NA	9,100	3,200	2.5E+7 (C)	3.8 (M) ca	3.8 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Methyl-tert-butyl ether (MTBE)	1634044	SW 846 8260B	NA	800	1.4E+5	1.5E+6	74 (M) ca	74 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
4-Methyl-2-pentanone (MIBK) (l)	108101	SW 846 8260B	NA	36,000	ID	5.6E+7 (C)	—	—	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000
Methylene chloride	75092	SW 846 8260B	NA	100	30,000(X)	1.3E+6	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene	104518	SW 846 8260B	NA	1,600	ID	2.50E+06	560 nc	550 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
n-Propylbenzene	103651	SW 846 8260B	NA	1,600	ID	2.5E+6	1,800 (DD) dev	1,800 (DD) dev	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
sec-Butylbenzene	135988	SW 846 8260B	NA	1,600	ID	2.5E+6	3,800 nc	3,800 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Styrene	100425	SW 846 8260B	NA	2,700	2,100 (X)	4.0E+5	150 ca	150 ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
tert-Butylbenzene (l)	98066	SW 846 8260B	NA	1,600	ID	2.5E+6	0.64 (M) nc	0.64 (M) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,1,2-Tetrachloroethane	630206	SW 846 8260B	NA	1,500	ID	4.8E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79345	SW 846 8260B	NA	170	1,600(X)	53,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Tetrachloroethene	127184	SW 846 8260B	NA	100	1,200(X)	2.0E+5 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Toluene	108883	SW 846 8260B	NA	16,000	5,400	5.0E+7 (C)	3,700 nc	3,700 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trichlorobenzene	120821	SW 846 8260B	NA	4,200	5,900(X)	9.9E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples													
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-23	SB-23	SB-24	SB-24	SB-25	SB-25	SB-26	SB-26	SB-27	SB-27	SB-28	SB-28	DUP-1	DUP-2
Sample Depth (in feet)									0.5	5.0	0.67	5.0	1.0	4.5	1.0	5.0	2.0	4.5	2.0	4.5		
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																						
Acetone	67641	SW 846 8260B	NA	15,000	34,000	2.3E+7	—	—	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	107131	SW 846 8260B	NA	2,800	2.6E+05	16,000	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	71432	SW 846 8260B	NA	100	4,000	1.8E+5	1.7 (M) ca	1.7 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Bromobenzene	108861	SW 846 8260B	NA	550	NA	5.4E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	75274	SW 846 8260B	NA	1,600	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromoform	75252	SW 846 8260B	NA	1,600	ID	8.2E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Bromomethane	74839	SW 846 8260B	NA	200	100	3.2E+5	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
2-Butanone	78933	SW 846 8260B	NA	2.6E+05	44,000	1.2E+8 (C,DD)	—	—	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980
Carbon disulfide	75150	SW 846 8260B	NA	16,000	ID	7.2E+6 (C,DD)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Carbon tetrachloride	56235	SW 846 8260B	NA	100	760(X)	96,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chlorobenzene	108907	SW 846 8260B	NA	2,000	500	4.3E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloroethane	75003	SW 846 8260B	NA	8,600	22,000(X)	2.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Chloroform	67663	SW 846 8260B	NA	1,600 (W)	7,000	1.2E+6	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Chloromethane (l)	74873	SW 846 8260B	NA	5,200	ID	1.6E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
cis-1,2-Dichloroethylene	156592	SW 846 8260B	NA	1,400	12,000	2.5E+6 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dibromo-3-Chloropropane	96128	SW 846 8260B	NA	10 (M); 4.0	ID	4,400 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Dibromochloromethane	124481	SW 846 8260B	NA	1,600 (W)	ID	1.1E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dibromomethane	74953	SW 846 8260B	NA	1,600	NA	2.5E+6 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,2-Dichlorobenzene	95501	SW 846 8260B	NA	14,000	280	1.9E+7 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	541731	SW 846 8260B	NA	170	680	2.0E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	106467	SW 846 8260B	NA	1,700	360	4.0E+5	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	75718	SW 846 8260B	NA	95,000	ID	5.2E+7 (C)	—	—	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
1,1-Dichloroethane	75343	SW 846 8260B	NA	18,000	15,000	2.7E+7 (C)	2.6 (M) ca	2.6 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloroethane	107062	SW 846 8260B	NA	100	7,200 (X)	91,000	0.82 (M) ca	0.82 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1-Dichloroethene (l)	75354	SW 846 8260B	NA	140	2,600	2.0E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2-Dichloropropane (l)	78875	SW 846 8260B	NA	100	4,600(X)	1.4E+5	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Diethyl ether	60297	SW 846 8260B	NA	200	ID	1.1E+8 (C)	350 nc	350 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Ethyl benzene	100414	SW 846 8260B	NA	1,500	360	2.2E+7 (C)	12 (M) ca	12 (M) ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Isopropylbenzene	98828	SW 846 8260B	NA	9,100	3,200	2.5E+7 (C)	3.8 (M) ca	3.8 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Methyl-tert-butyl ether (MTBE)	1634044	SW 846 8260B	NA	800	1.4E+5	1.5E+6	74 (M) ca	74 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
4-Methyl-2-pentanone (MIBK) (l)	108101	SW 846 8260B	NA	36,000	ID	5.6E+7 (C)	—	—	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000
Methylene chloride	75092	SW 846 8260B	NA	100	30,000(X)	1.3E+6	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butylbenzene	104518	SW 846 8260B	NA	1,600	ID	2.50E+06	560 nc	550 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
n-Propylbenzene	103651	SW 846 8260B	NA	1,600	ID	2.5E+6	1,800 (DD) dev	1,800 (DD) dev	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
sec-Butylbenzene	135988	SW 846 8260B	NA	1,600	ID	2.5E+6	3,800 nc	3,800 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Styrene	100425	SW 846 8260B	NA	2,700	2,100 (X)	4.0E+5	150 ca	150 ca	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
tert-Butylbenzene (l)	98066	SW 846 8260B	NA	1,600	ID	2.5E+6	0.64 (M) nc	0.64 (M) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,1,2-Tetrachloroethane	630206	SW 846 8260B	NA	1,500	ID	4.8E+5 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79345	SW 846 8260B	NA	170	1,600(X)	53,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Tetrachloroethene	127184	SW 846 8260B	NA	100	1,200(X)	2.0E+5 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Toluene	108883	SW 846 8260B	NA	16,000	5,400	5.0E+7 (C)	3,700 nc	3,700 nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trichlorobenzene	120821	SW 846 8260B	NA	4,200	5,900(X)	9.9E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples													
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-1	SB-1	SB-2	SB-2	SB-3	SB-3	SB-4	SB-4	SB-5	SB-5	SB-6	SB-6	SB-7	SB-7
Sample Depth (in feet)									1.0	5.0	3.0	6.0	1.0	5.0	1.0	5.0	2.0	4.0	1.0	5.0	1.0	6.0
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																						
1,1,1-Trichloroethane	71556	SW 846 8260B	NA	4,000	1,800	5.0E+8 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,2-Trichloroethane	79005	SW 846 8260B	NA	100	6,600 (X)	1.80E+05	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichloroethylene	79016	SW 846 8260B	NA	100	4,000 (X)	1.1E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichlorofluoromethane	75694	SW 846 8260B	NA	52,000	NA	2.6E+8 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichloropropane	96184	SW 846 8260B	NA	840	NA	4.2E+6 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trimethylbenzene	526738	SW 846 8260B	NA	—	—	NA	270 (JT) nc	270 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trimethylbenzene	95636	SW 846 8260B	NA	2,100	570	3.2E+7 (C)	150 (JT) nc	150 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,3,5-Trimethylbenzene	108678	SW 846 8260B	NA	1,800	1,100	3.2E+7 (C)	100 (JT) nc	100 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Vinyl chloride	75014	SW 846 8260B	NA	40	260 (X)	34,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes (I)	1330207	SW 846 8260B	NA	5,600	960	4.1E+8 (C)	280 (J) nc	280 (J) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
PNAs																						
Acenaphthene	83329	SW 846 8270C	NA	300,000	8,700	4.1E+7	2.1E+05 nc	2.0E+05	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Acenaphthylene	208968	SW 846 8270C	NA	5,900	ID	1.6E+6	DATA	DATA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Anthracene	120127	SW 846 8270C	NA	41,000	ID	2.3E+8	1.3E+07 nc	1.3E+07	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Benzo(a)anthracene (Q)	56553	SW 846 8270C	NA	NLL	NLL	20,000	1.6E+05 (MM) mut	1.6E+05 (MM) mut	<300	<300	300	<300	600	<300	<300	<300	700	<300	400	<300	300	<300
Benzo(a)pyrene (Q)	50328	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	<300	<300	500	<300	<300	<300	600	<300	300	<300	<300	<300
Benzo(b)fluoranthene (Q)	205992	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	<300	500	<300	1,000	<300	<300	<300	1,100	<300	700	<300	500	<300
Benzo(g,h,i)perylene (Q)	191242	SW 846 8270C	NA	NLL	NLL	2.5E+6	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Benzo(k)fluoranthene (Q)	207089	SW 846 8270C	NA	NLL	NLL	2.0E+5	NA	NA	<300	<300	600	<300	1,200	<300	<300	<300	1,200	<300	700	<300	600	<300
Chrysene (Q)	218019	SW 846 8270C	NA	NLL	NLL	2,000,000	NA	NA	<300	<300	300	<300	700	<300	<300	<300	800	<300	500	<300	400	<300
Dibenzo(a,h)anthracene	53703	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Fluoranthene	206440	SW 846 8270C	NA	730,000	5,500	46,000,000	NA	NA	<300	<300	600	<300	1,500	<300	<300	<300	1,600	<300	800	<300	700	<300
Fluorene	53703	SW 846 8270C	NA	390,000	5,300	27,000,000	4.7E+05 nc	4.7E+05 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Indeno(1,2,3-cd)pyrene (Q)	193395	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
2-Methylnaphthalene	91576	SW 846 8260B	NA	57,000	4,200	8.1E+6	1,700 nc	1,700 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Naphthalene	91203	SW 846 8260B	NA	35,000	730	1.6E+7	67 (M) ca	67 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Phenanthrene	85018	SW 846 8270C	NA	56,000	2,100	1,600,000	1,700 nc	1,700 nc	<300	<300	400	<300	1,000	<300	<300	<300	1,500	<300	500	<300	400	<300
Pyrene	129000	SW 846 8270C	NA	480,000	ID	29,000,000	2.5E+07 nc	2.5E+07	<300	<300	600	<300	1,400	<300	<300	<300	1,500	<300	700	<300	600	<300
Metals																						
Arsenic	7440382	SW846 6020	5,800	4,600	4,600	7,600	NA	NA	2,100	1,350	2,110	1,400	4,510	3,280	5,300	1,200	3,780	1,700	4,180	510	2,310	1,580
Barium	7440393	SW846 6021	75,000	1,300,000	(G)	37,000,000	NA	NA	47,300	35,100	74,400	39,900	79,300	67,500	31,700	49,000	116,000	77,000	232,000	50,700	59,500	52,200
Cadmium (B)	7440439	SW846 6022	1,200	6,000	(G,X)	550,000	NA	NA	270	<200	310	<200	940	<200	<200	<200	1,600	720	1,620	<200	310	<200
Chromium (B,H)	16065831	SW846 6023	18,000	1.0E+9	(G,X)	790,000,000	NA	NA	10,000	9,690	6,350	9,710	14,000	13,000	7,030	10,700	23,200	8,710	24,100	10,600	8,850	11,100
Copper (B)	7440508	SW846 6024	32,000	5,800,000	(G)	2.0E+7	NA	NA	11,300	11,500	8,510	8,870	18,600	14,500	10,200	7,060	26,400	6,100	25,200	7,400	12,200	8,330
Lead (B)	7439921	SW846 6027	21,000	700,000	(G,X)	400,000	NA	NA	30,300	29,900	342,000	8,380	102,000	10,500	7,610	7,770	578,000	20,500	563,000	6,370	71,300	13,200
Mercury	Varies	SW846 6032	NA	1,700	50(M)	160,000	22 (M) nc	22 (M) nc	<50	<50	433	<50	69	<50	<50	<50	347	<50	302	<50	70	<50
Selenium (B)	7782492	SW846 6034	410	4,000	400	2,600,000	NA	NA	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400
Silver (B)	7440224	SW846 6035	1,000	4,500	100 (M)	2,500,000	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Zinc	7440666	SW846 6036	47,000	2,400,000	(G)	170,000,000	NA	NA	41,700	39,500	93,100	36,200	134,000	36,900	21,600	35,700	263,000	52,200	224,000	27,400	69,100	32,900

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples														
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-8	SB-8	SB-9	SB-9	SB-10	SB-10	SB-11	SB-11	SB-12	SB-12	SB-13	SB-13	SB-14	SB-14	SB-15
Sample Depth (in feet)									2.0	5.0	2.0	5.0	2.0	5.0	3.0	5.0	2.0	5.0	2.0	4.0	2	4	2
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																							
1,1,1-Trichloroethane	71556	SW 846 8260B	NA	4,000	1,800	5.0E+8 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,2-Trichloroethane	79005	SW 846 8260B	NA	100	6,600 (X)	1.80E+05	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichloroethylene	79016	SW 846 8260B	NA	100	4,000 (X)	1.1E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichlorofluoromethane	75694	SW 846 8260B	NA	52,000	NA	2.6E+8 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichloropropane	96184	SW 846 8260B	NA	840	NA	4.2E+6 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trimethylbenzene	526738	SW 846 8260B	NA	—	—	NA	270 (JT) nc	270 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trimethylbenzene	95636	SW 846 8260B	NA	2,100	570	3.2E+7 (C)	150 (JT) nc	150 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,3,5-Trimethylbenzene	108678	SW 846 8260B	NA	1,800	1,100	3.2E+7 (C)	100 (JT) nc	100 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Vinyl chloride	75014	SW 846 8260B	NA	40	260 (X)	34,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes (I)	1330207	SW 846 8260B	NA	5,600	960	4.1E+8 (C)	280 (J) nc	280 (J) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	220
PNAs																							
Acenaphthene	83329	SW 846 8270C	NA	300,000	8,700	4.1E+7	2.1E+05 nc	2.0E+05	<300	<300	<300	<300	<300	<300	5,800	<300	<300	<300	<300	900	<300	<300	<300
Acenaphthylene	208968	SW 846 8270C	NA	5,900	ID	1.6E+6	DATA	DATA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Anthracene	120127	SW 846 8270C	NA	41,000	ID	2.3E+8	1.3E+07 nc	1.3E+07	<300	<300	<300	<300	<300	<300	7,700	<300	<300	<300	600	<300	1,800	<300	<300
Benzo(a)anthracene (Q)	56553	SW 846 8270C	NA	NLL	NLL	20,000	1.6E+05 (MM) mut	1.6E+05 (MM) mut	<300	<300	500	<300	<300	<300	7,800	<300	<300	<300	1,600	<300	3,300	<300	<300
Benzo(a)pyrene (Q)	50328	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	500	<300	<300	<300	5,500	<300	<300	<300	1,400	<300	2,500	<300	<300
Benzo(b)fluoranthene (Q)	205992	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	400	<300	1,000	<300	<300	<300	9,800	<300	300	2,500	<300	4,600	<300	500	<300
Benzo(g,h,i)perylene (Q)	191242	SW 846 8270C	NA	NLL	NLL	2.5E+6	NA	NA	<300	<300	<300	<300	<300	<300	1,500	<300	<300	500	<300	700	<300	<300	<300
Benzo(k)fluoranthene (Q)	207089	SW 846 8270C	NA	NLL	NLL	2.0E+5	NA	NA	400	<300	1,200	<300	<300	<300	10,900	<300	400	2,800	<300	5,200	<300	500	<300
Chrysene (Q)	218019	SW 846 8270C	NA	NLL	NLL	2,000,000	NA	NA	<300	<300	600	<300	<300	<300	7,400	300	<300	1,700	<300	3,400	<300	300	<300
Dibenzo(a,h)anthraene	53703	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Fluoranthene	206440	SW 846 8270C	NA	730,000	5,500	46,000,000	NA	NA	400	<300	1,000	<300	<300	<300	19,300	600	400	3,600	<300	7,200	<300	500	<300
Fluorene	53703	SW 846 8270C	NA	390,000	5,300	27,000,000	4.7E+05 nc	4.7E+05 nc	<300	<300	<300	<300	<300	<300	4,000	<300	<300	<300	<300	700	<300	<300	<300
Indeno(1,2,3-cd)pyrene (Q)	193395	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	<300	<300	<300	<300	<300	1,700	<300	<300	500	<300	900	<300	<300	<300
2-Methylnaphthalene	91576	SW 846 8260B	NA	57,000	4,200	8.1E+6	1,700 nc	1,700 nc	<300	<300	<300	<300	<300	<300	2,000	<300	<300	<300	<300	500	<300	<300	<300
Naphthalene	91203	SW 846 8260B	NA	35,000	730	1.6E+7	67 (M) ca	67 (M) ca	<300	<300	<300	<300	<300	<300	3,100	<300	<300	<300	<300	1,300	<300	<300	<300
Phenanthrene	85018	SW 846 8270C	NA	56,000	2,100	1,600,000	1,700 nc	1,700 nc	<300	<300	500	<300	<300	<300	24,800	300	<300	2,800	<300	7,200	<300	<300	<300
Pyrene	129000	SW 846 8270C	NA	480,000	ID	29,000,000	2.5E+07 nc	2.5E+07	400	<300	1,000	<300	<300	<300	15,700	500	400	3,300	<300	6,500	<300	500	<300
Metals																							
Arsenic	7440382	SW846 6020	5,800	4,600	4,600	7,600	NA	NA	3,140	1,360	6,570	1,640	2,380	1,350	2,800	2,830	3,800	3,510	6,500	1,720	5,170	1,550	2,000
Barium	7440393	SW846 6021	75,000	1,300,000	(G)	37,000,000	NA	NA	66,800	62,800	195,000	53,400	67,600	55,700	42,300	50,000	73,600	43,500	91,200	47,100	62,300	49,500	61,900
Cadmium (B)	7440439	SW846 6022	1,200	6,000	(G,X)	550,000	NA	NA	370	<200	1,300	<200	340	<200	290	<200	630	<200	530	<200	270	250	270
Chromium (B,H)	16065831	SW846 6023	18,000	1.0E+9	(G,X)	790,000,000	NA	NA	9,450	12,000	13,400	12,500	9,230	12,500	6,770	12,700	7,240	10,500	12,000	14,100	12,300	11,900	9,420
Copper (B)	7440508	SW846 6024	32,000	5,800,000	(G)	2.0E+7	NA	NA	13,400	8,750	44,300	9,040	15,100	8,330	9,430	10,500	15,000	11,100	23,900	8,860	18,500	7,650	25,200
Lead (B)	7439921	SW846 6027	21,000	700,000	(G,X)	400,000	NA	NA	49,800	18,600	451,000	9,660	50,500	6,850	51,600	15,400	171,000	7,240	243,000	4,790	104,000	7,740	183,000
Mercury	Varies	SW846 6032	NA	1,700	50(M)	160,000	22 (M) nc	22 (M) nc	94	<50	253	<50	61	<50	56	83	510	<50	439	<50	107	<50	88
Selenium (B)	7782492	SW846 6034	410	4,000	400	2,600,000	NA	NA	<400	<400	<400	<400	730	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400
Silver (B)	7440224	SW846 6035	1,000	4,500	100 (M)	2,500,000	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Zinc	7440666	SW846 6036	47,000	2,400,000	(G)	170,000,000	NA	NA	120,000	31,200	313,000	39,200	59,000	35,900	50,700	44,000	124,000	30,500	130,000	32,900	85,400	39,500	81,100

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples														
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-15	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18	SB-19	SB-19	SB-20	SB-20	SB-21	SB-21	SB-22	SB-22
Sample Depth (in feet)									5	2	5	2	4.5	2	5.0	3.0	5.0	3.5	5.0	3.5	5.0	1.5	4.0
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																							
1,1,1-Trichloroethane	71556	SW 846 8260B	NA	4,000	1,800	5.0E+8 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,2-Trichloroethane	79005	SW 846 8260B	NA	100	6,600 (X)	1.80E+05	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichloroethylene	79016	SW 846 8260B	NA	100	4,000 (X)	1.1E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichlorofluoromethane	75694	SW 846 8260B	NA	52,000	NA	2.6E+8 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichloropropane	96184	SW 846 8260B	NA	840	NA	4.2E+6 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trimethylbenzene	526738	SW 846 8260B	NA	—	—	NA	270 (JT) nc	270 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trimethylbenzene	95636	SW 846 8260B	NA	2,100	570	3.2E+7 (C)	150 (JT) nc	150 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,3,5-Trimethylbenzene	108678	SW 846 8260B	NA	1,800	1,100	3.2E+7 (C)	100 (JT) nc	100 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Vinyl chloride	75014	SW 846 8260B	NA	40	260 (X)	34,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes (I)	1330207	SW 846 8260B	NA	5,600	960	4.1E+8 (C)	280 (J) nc	280 (J) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
PNAs																							
Acenaphthene	83329	SW 846 8270C	NA	300,000	8,700	4.1E+7	2.1E+05 nc	2.0E+05	<300	300	<300	700	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Acenaphthylene	208968	SW 846 8270C	NA	5,900	ID	1.6E+6	DATA	DATA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Anthracene	120127	SW 846 8270C	NA	41,000	ID	2.3E+8	1.3E+07 nc	1.3E+07	<300	900	<300	1,800	<300	<300	<300	<300	<300	500	<300	<300	<300	<300	<300
Benzo(a)anthracene (Q)	56553	SW 846 8270C	NA	NLL	NLL	20,000	1.6E+05 (MM) mut	1.6E+05 (MM) mut	<300	2,200	<300	3,400	<300	<300	<300	<300	<300	800	<300	<300	<300	<300	<300
Benzo(a)pyrene (Q)	50328	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	1,800	<300	2,800	<300	<300	<300	<300	<300	700	<300	<300	<300	<300	<300
Benzo(b)fluoranthene (Q)	205992	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	3,200	<300	4,900	<300	500	<300	<300	<300	1,300	<300	<300	<300	400	<300
Benzo(g,h,i)perylene (Q)	191242	SW 846 8270C	NA	NLL	NLL	2.5E+6	NA	NA	<300	900	<300	1,100	<300	<300	<300	<300	<300	400	<300	<300	<300	<300	<300
Benzo(k)fluoranthene (Q)	207089	SW 846 8270C	NA	NLL	NLL	2.0E+5	NA	NA	<300	3,600	<300	5,500	<300	500	<300	<300	<300	1,500	<300	<300	<300	500	<300
Chrysene (Q)	218019	SW 846 8270C	NA	NLL	NLL	2,000,000	NA	NA	<300	2,100	<300	3,200	<300	300	<300	<300	<300	900	<300	<300	<300	<300	<300
Dibenzo(a,h)anthraene	53703	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Fluoranthene	206440	SW 846 8270C	NA	730,000	5,500	46,000,000	NA	NA	<300	4,600	<300	7,400	<300	600	<300	<300	<300	2,400	<300	400	<300	500	<300
Fluorene	53703	SW 846 8270C	NA	390,000	5,300	27,000,000	4.7E+05 nc	4.7E+05 nc	<300	400	<300	800	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Indeno(1,2,3-cd)pyrene (Q)	193395	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	900	<300	1,100	<300	<300	<300	<300	<300	400	<300	<300	<300	<300	<300
2-Methylnaphthalene	91576	SW 846 8260B	NA	57,000	4,200	8.1E+6	1,700 nc	1,700 nc	<300	<300	<300	400	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Naphthalene	91203	SW 846 8260B	NA	35,000	730	1.6E+7	67 (M) ca	67 (M) ca	<300	<300	<300	500	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Phenanthrene	85018	SW 846 8270C	NA	56,000	2,100	1,600,000	1,700 nc	1,700 nc	<300	3,800	<300	7,300	<300	600	<300	<300	<300	2,300	<300	<300	<300	400	<300
Pyrene	129000	SW 846 8270C	NA	480,000	ID	29,000,000	2.5E+07 nc	2.5E+07	<300	4,300	<300	6,700	<300	600	<300	<300	<300	2,000	<300	<300	<300	500	<300
Metals																							
Arsenic	7440382	SW846 6020	5,800	4,600	4,600	7,600	NA	NA	1,880	4,260	1,320	3,640	1,450	2,240	1,450	1,350	1,490	2,000	2,960	1,880	3,100	7,130	4,380
Barium	7440393	SW846 6021	75,000	1,300,000	(G)	37,000,000	NA	NA	33,300	202,000	44,800	250,000	43,800	67,700	41,800	43,900	38,900	48,100	28,500	62,500	62,300	84,100	62,100
Cadmium (B)	7440439	SW846 6022	1,200	6,000	(G,X)	550,000	NA	NA	<200	660	<200	780	<200	330	<200	<200	<200	220	<200	430	<200	470	<200
Chromium (B,H)	16065831	SW846 6023	18,000	1.0E+9	(G,X)	790,000,000	NA	NA	9,880	9,120	11,400	9,090	11,100	9,440	12,000	8,170	10,300	8,060	11,200	8,030	19,600	12,900	16,400
Copper (B)	7440508	SW846 6024	32,000	5,800,000	(G)	2.0E+7	NA	NA	9,070	17,100	8,400	28,100	9,880	22,200	8,990	12,100	9,300	9,270	10,500	11,800	14,700	22,300	14,500
Lead (B)	7439921	SW846 6027	21,000	700,000	(G,X)	400,000	NA	NA	5,280	572,000	8,100	637,000	8,860	65,800	9,090	12,600	4,520	33,200	11,700	90,100	26,900	100,000	7,290
Mercury	Varies	SW846 6032	NA	1,700	50(M)	160,000	22 (M) nc	22 (M) nc	<50	3,199	<50	1,764	<50	127	<50	152	<50	117	<50	153	<50	408	<50
Selenium (B)	7782492	SW846 6034	410	4,000	400	2,600,000	NA	NA	<400	<400	<400	<400	<400	<400	<400	600	<400	<400	<400	<400	<400	410	<400
Silver (B)	7440224	SW846 6035	1,000	4,500	100 (M)	2,500,000	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Zinc	7440666	SW846 6036	47,000	2,400,000	(G)	170,000,000	NA	NA	26,500	235,000	37,300	296,000	28,500	94,100	78,100	38,000	30,800	42,100	32,200	73,100	61,700	95,200	42,500

**Table 1 Summary Soil Sample Analytical Results
269, 281, 291 Winder Street 2515 Brush Street
Detroit, Michigan**

Analytical Parameters	Part 201 Generic Residential Criteria						Site Specific Volatilization to Indoor Air Criteria (SSVIAC)		Soil Samples													
	Chemical Abstract Service Number	Analytical Method	State Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Direct Contact Criteria	Restricted to Residential Structure slab-on-grade foundation, elevator shaft extending 4 feet bgs, depth to groundwater submitted, and USDA soil sand	Unrestricted to residential house with basement foundation, the depth to groundwater submitted for this site and USDA soil sand	SB-23	SB-23	SB-24	SB-24	SB-25	SB-25	SB-26	SB-26	SB-27	SB-27	SB-28	SB-28	DUP-1	DUP-2
Sample Depth (in feet)									0.5	5.0	0.67	5.0	1.0	4.5	1.0	5.0	2.0	4.5	2.0	4.5		
Sample Date									10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
VOCs																						
1,1,1-Trichloroethane	71556	SW 846 8260B	NA	4,000	1,800	5.0E+8 (C)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,1,2-Trichloroethane	79005	SW 846 8260B	NA	100	6,600 (X)	1.80E+05	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichloroethylene	79016	SW 846 8260B	NA	100	4,000 (X)	1.1E+5 (DD)	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Trichlorofluoromethane	75694	SW 846 8260B	NA	52,000	NA	2.6E+8 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichloropropane	96184	SW 846 8260B	NA	840	NA	4.2E+6 (C)	—	—	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trimethylbenzene	526738	SW 846 8260B	NA	—	—	NA	270 (JT) nc	270 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,2,4-Trimethylbenzene	95636	SW 846 8260B	NA	2,100	570	3.2E+7 (C)	150 (JT) nc	150 (JT) nc	110	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
1,3,5-Trimethylbenzene	108678	SW 846 8260B	NA	1,800	1,100	3.2E+7 (C)	100 (JT) nc	100 (JT) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Vinyl chloride	75014	SW 846 8260B	NA	40	260 (X)	34,000	—	—	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
Xylenes (I)	1330207	SW 846 8260B	NA	5,600	960	4.1E+8 (C)	280 (J) nc	280 (J) nc	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
PNAs																						
Acenaphthene	83329	SW 846 8270C	NA	300,000	8,700	4.1E+7	2.1E+05 nc	2.0E+05	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Acenaphthylene	208968	SW 846 8270C	NA	5,900	ID	1.6E+6	DATA	DATA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Anthracene	120127	SW 846 8270C	NA	41,000	ID	2.3E+8	1.3E+07 nc	1.3E+07	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	500
Benzo(a)anthracene (Q)	56553	SW 846 8270C	NA	NLL	NLL	20,000	1.6E+05 (MM) mut	1.6E+05 (MM) mut	600	<300	1,000	<300	<300	<300	600	<300	<300	<300	<300	<300	900	900
Benzo(a)pyrene (Q)	50328	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	500	<300	900	<300	<300	<300	500	<300	<300	<300	<300	<300	900	700
Benzo(b)fluoranthene (Q)	205992	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	1,100	<300	2,100	<300	<300	<300	1,000	<300	400	<300	<300	<300	1,800	1,400
Benzo(g,h,i)perylene (Q)	191242	SW 846 8270C	NA	NLL	NLL	2.5E+6	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	300	<300
Benzo(k)fluoranthene (Q)	207089	SW 846 8270C	NA	NLL	NLL	2.0E+5	NA	NA	1,200	<300	2,400	<300	<300	<300	1,100	<300	400	<300	<300	<300	2,000	1,600
Chrysene (Q)	218019	SW 846 8270C	NA	NLL	NLL	2,000,000	NA	NA	700	<300	1,100	<300	<300	<300	600	<300	<300	<300	<300	<300	1,000	900
Dibenzo(a,h)anthraene	53703	SW 846 8270C	NA	NLL	NLL	2,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Fluoranthene	206440	SW 846 8270C	NA	730,000	5,500	46,000,000	NA	NA	1,400	<300	1,900	<300	<300	<300	1,400	<300	400	<300	<300	<300	1,900	2,100
Fluorene	53703	SW 846 8270C	NA	390,000	5,300	27,000,000	4.7E+05 nc	4.7E+05 nc	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Indeno(1,2,3-cd)pyrene (Q)	193395	SW 846 8270C	NA	NLL	NLL	20,000	NA	NA	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	300	<300
2-Methylnaphthalene	91576	SW 846 8260B	NA	57,000	4,200	8.1E+6	1,700 nc	1,700 nc	200	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Naphthalene	91203	SW 846 8260B	NA	35,000	730	1.6E+7	67 (M) ca	67 (M) ca	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300
Phenanthrene	85018	SW 846 8270C	NA	56,000	2,100	1,600,000	1,700 nc	1,700 nc	800	<300	800	<300	<300	<300	900	<300	<300	<300	<300	<300	900	1,900
Pyrene	129000	SW 846 8270C	NA	480,000	ID	29,000,000	2.5E+07 nc	2.5E+07	1,400	<300	2,000	<300	<300	<300	1,300	<300	400	<300	<300	<300	1,800	1,900
Metals																						
Arsenic	7440382	SW846 6020	5,800	4,600	4,600	7,600	NA	NA	3,070	2,940	9,820	1,830	2,590	1,120	5,500	3,870	3,250	1,940	3,740	5,580	8,940	2,580
Barium	7440393	SW846 6021	75,000	1,300,000	(G)	37,000,000	NA	NA	95,600	107,000	144,000	86,600	143,000	64,600	137,000	62,900	90,100	49,900	31,400	58,900	197,000	81,200
Cadmium (B)	7440439	SW846 6022	1,200	6,000	(G,X)	550,000	NA	NA	580	390	1,180	360	300	<200	800	<200	490	<200	220	<200	1,420	410
Chromium (B,H)	16065831	SW846 6023	18,000	1.0E+9	(G,X)	790,000,000	NA	NA	17,100	18,600	14,400	19,800	13,600	18,000	15,400	15,200	13,500	15,300	10,000	17,200	14,500	8,870
Copper (B)	7440508	SW846 6024	32,000	5,800,000	(G)	2.0E+7	NA	NA	10,200	21,300	47,500	13,300	26,400	11,200	30,000	14,400	15,100	12,300	14,300	16,000	42,800	13,500
Lead (B)	7439921	SW846 6027	21,000	700,000	(G,X)	400,000	NA	NA	61,600	31,500	265,000	16,800	100,000	10,200	260,000	7,420	226,000	8,060	20,900	17,200	282,000	127,000
Mercury	Varies	SW846 6032	NA	1,700	50(M)	160,000	22 (M) nc	22 (M) nc	259	<50	372	<50	694	<50	261	<50	138	<50	74	<50	328	170
Selenium (B)	7782492	SW846 6034	410	4,000	400	2,600,000	NA	NA	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400
Silver (B)	7440224	SW846 6035	1,000	4,500	100 (M)	2,500,000	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Zinc	7440666	SW846 6036	47,000	2,400,000	(G)	170,000,000	NA	NA	98,200	43,300	289,000	68,200	146,000	51,700	208,000	44,200	130,000	37,600	47,900	56,300	335,000	94,500

**TABLE 2 Summary of Soil Gas Sample Analytical Results
269, 281, 291 Winder Street and 2515 Brush Steet
Detroit, Michigan**

	Chemical Abstract Service Number	Restricted Site-Specific Volatilization to Indoor Air Criteria (ug/m3)*	Unrestricted Site-Specific Volatilization to Indoor Air Criteria(ug/m3)**	SB-13 SG-1	SB-14 SG-2	SB-15 SG-3	SB-16 SG-4	SB-18 SG-5	SB-17 SG-6	SB-25 SG-7	SB-26 SG-8	SB-27 SG-9	SB-28 SG-10
Sample Date				10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021
VOCs (ug/m3)													
Acetone	67641	—	—	<48	71	<48	71	95	71	240	190	120	140
Benzene	71432	110 ca	110 ca	48	77	51	19	29	22	32	45	29	32
t-Butyl alcohol (Tert-butyl alcohol)	75650	2,500 nc	2,500 nc	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Carbon disulfide	75150	—	—	110	62	47	<16	<16	<16	110	90	140	<16
Cyclohexane	110827	210,000	210,000	62	79	45	17	65	17	17	21	38	41
1,1-Dichloroethane	75353	530 ca	530 ca	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1
1,2-Dichloroethane	107062	33 ca	33 ca	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1
Ethanol	64175	630,000 (EE) st	630,000 (EE) st	79	83	72	160	85	89	89	96	110	72
Ethylbenzene	100414	340 ca	340 ca	26	26	22	17	22	26	22	26	22	22
Ethylene dibromide (1,2-dibromoethane)	106934	1.4 ca	1.4 ca	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
4-Ethyltoluene	622968	—	—	9.8	<9.8	<9.8	<9.8	<9.8	15	<9.8	9.8	<9.8	15
n-Heptane	142825	120,000 nc	120,000 nc	74	66	53	20	74	25	37	41	41	57
n-Hexane	110543	24,000 nc	24,000 nc	230	210	250	53	190	60	99	130	140	160
Isopropyl Alcohol	67630	7,000 nc	7,000 nc	<49	<49	<49	<49	<49	<49	590	<49	<49	<49
Methyl-tert-butyl ether (MTBE)	1634044	3,300 ca	3,300 ca	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Naphthalene	91203	25 ca	25 ca	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propylene	115071	—	—	520	340	170	<170	340	<170	520	690	170	340
Styrene	100425	1,500 ca	1,500 ca	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5
Toluene	108883	170,000 nc	170,000 nc	180	280	150	87	110	140	130	150	130	120
1,2,4-Trimethylbenzene	95636	2,100 (JT) nc	2,100 (JT) nc	39	34	29	20	34	49	34	39	29	44
1,3,5-Trimethylbenzene	108678	2,100 (JT) nc	2,100 (JT) nc	9.8	<9.8	<9.8	<9.8	<9.8	15	<9.8	<9.8	<9.8	9.8
2,2,4-Trimethylpentane	540841	120,000 nc	120,000 nc	56	33	98	47	28	23	33	47	51	56
Xylenes	1330207	7,600 (J) nc	7,600 (J) nc	130	130	100	74	100	140	100	120	100	130

Notes:

- nc Non-Carcinogenic
- ca Carcinogenic
- mut Mutagenic cancer
- dev Developmental
- st Short-term
- NA The hazardous substance does not meet the department's definition of a volatile; therefore, no health based SSVIAC were developed
- (MM) Hazardous substance is a carcinogen with a mutagen mode of action.
- (DD) Hazardous substances cause developmental effects.
- (EE) The values listed in the table are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
- (JT) Hazardous substances may be present in several isomer forms.
- * Apply to a residential structure that has slab-on-grade foundation and elevator shaft extending 4 feet bgs, the depth to groundwater submitted for this site, and USDA soil type of
- ** Apply to a residential house with a basement foundation, the depth to groundwater submitted for this site, and USDA soil type of sand.
- No site specific criteria was established for this parameter

TABLE # Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs) or Screen Depth	Laboratory Analytical Parameter(s)
SB-1	Soil	1	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-2	Soil	3	Michigan 10 Metals, VOCs, PNAs
	Soil	6	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-3	Soil	1	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-4	Soil	1	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-5	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	4	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-6	Soil	1	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-7	Soil	1	Michigan 10 Metals, VOCs, PNAs
	Soil	6	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-8	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD

Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs) or Screen Depth	Laboratory Analytical Parameter(s)
SB-9	Soil	2	Michigan 10 Metals, VOCs, PNAs
SB-9 (cont)	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-10	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-11	Soil	3	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-12	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-13	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	4	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-14	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	4	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-15	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-16	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD

Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs) or Screen Depth	Laboratory Analytical Parameter(s)
SB-17	Soil	2	Michigan 10 Metals, VOCs, PNAs
	Soil	4.5	Michigan 10 Metals, VOCs, PNAs
SB-17 (cont)	Soil	12	HOLD
SB-18	Soil	2	Michigan 10 Metals, VOCs, PNAs
		5	Michigan 10 Metals, VOCs, PNAs
		12	HOLD
SB-19	Soil	3	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-20	Soil	3.5	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-21	Soil	3	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-22	Soil	1.5	Michigan 10 Metals, VOCs, PNAs
	Soil	4	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-23	Soil	0.5	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD
SB-24	Soil	0.8	Michigan 10 Metals, VOCs, PNAs
	Soil	5	Michigan 10 Metals, VOCs, PNAs
	Soil	12	HOLD

Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs) or Screen Depth	Laboratory Analytical Parameter(s)
SB-25	Soil	1	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	4.5	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	12	HOLD
SB-26	Soil	1	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	5	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	12	HOLD
SB-27	Soil	2	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	4.5	PCBs, Michigan 10 Metals, PNAs, VOC
SB-27 (cont)	Soil	12	HOLD
SB-28	Soil	2	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	4.5	PCBs, Michigan 10 Metals, PNAs, VOC
	Soil	12	HOLD
SB-13/SG-1	Soil Gas	NA	TO-15
SB-14/SG-2	Soil Gas	NA	TO-15
SB-15/SG-3	Soil Gas	NA	TO-15
SB-16/SG-4	Soil Gas	NA	TO-15
SB-18/SG-5	Soil Gas	NA	TO-15
SB-17/SG-6	Soil Gas	NA	TO-15
SB-25/SG-7	Soil Gas	NA	TO-15
SB-26/SG-8	Soil Gas	NA	TO-15
SB-27/SG-9	Soil Gas	NA	TO-15
SB-28/SG-10	Soil Gas	NA	TO-15

PROJECT: BRUSH PARK APARTMENTS
CLIENT: MHT HOUSING, INC.
LOCATION: 269 WINDER, DETROIT

Scope of Work:

This project is to build a senior living building. The building will be mixed use on the first floor, with retail along Brush Street. The remainder of the first floor will be dedicated to the residential units. Parking for both retail and residents will be provided on site. The first floor will hold the offices, mechanical/utility room, the main community room and 2 ADA public restrooms. The building will be equipped with an elevator and two egress staircases.

Legal Description:

LAND SITUATED IN THE CITY OF DETROIT, COUNTY OF WAYNE, STATE OF MICHIGAN, DESCRIBED AS:

2515 BRUSH - TAX NUMBER: 01000598-604

LOT 1, EXCEPT THE WEST 9 FEET, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.

291 WINDER - TAX NUMBER: 01000597

THE WEST 9 FEET OF LOT 1 AND THE EAST 35 FEET OF LOT 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.

N. WINDER - TAX NUMBER: 01000596

THE WEST 15 FEET OF LOT 2 AND THE EAST 1/2 OF LOT 3, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.

269 WINDER - 01000595.002L

THE WEST 1/2 OF LOT 3 AND ALL OF LOT 4, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.

ALSO

LOT 5, BLOCK 2, BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS.

THE PERIMETER DESCRIPTION BELOW COMPRISES PARCELS 1 THROUGH 4 AND A PORTION OF PARCEL 5.

LAND IN THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN BEING ALL OF LOTS 1 THROUGH 4 AND PART OF LOT 5 BLOCK 2 BRUSH SUBDIVISION OF THAT PART OF THE BRUSH FARM LYING EAST OF AND ADJOINING PARK LOTS 6, 7, 8, AND 9 AS RECORDED IN LIBER 1, PAGE 118 OF PLATS, WAYNE COUNTY RECORDS; AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE WEST LINE OF BRUSH STREET (60 FEET WIDE) AND THE NORTH LINE OF WINDER STREET (60 FEET WIDE), BEING THE SOUTHEAST CORNER OF SAID LOT 1; THENCE S59°16'09"W 233.30 FEET ALONG THE NORTH LINE OF WINDER STREET; THENCE N30°24'30"W 165.88 FEET TO THE SOUTH LINE OF A PUBLIC ALLEY (20 FEET WIDE); THENCE N59°16'09"E 242.96 FEET ALONG SAID SOUTH ALLEY TO THE NORTHEAST CORNER OF SAID LOT 1 AND THE WEST LINE OF BRUSH STREET; THENCE S27°04'30"E 166.22 FEET ALONG SAID WEST LINE TO THE POINT OF BEGINNING AND CONTAINING 0.907 ACRES.

PROPERTY INFO:

LOT AREA: 39,501 ± SF OR 0.907 ± ACRES

BUILDING

FLOORS: 4

HEIGHT: _____

BUILDING FOOTPRINT: 11,368 SF

BUILDING SIZE: 45,631 SF

APARTMENT UNITS

6 - STUDIO UNITS

52 - 1 BEDROOM UNITS

58 UNITS

USE: MIXED USE - FIRST FLOOR RETAIL & RESIDENTIAL
 SECOND TO FOURTH FLOOR RESIDENTIAL

LOT COVERAGE

11,536/39,501 = 29%

ZONING DESIGNATION

PD-H: PLANNED DEVELOPMENT DISTRICT - HISTORICAL

"LOT DIMENSIONS, SETBACKS, HEIGHT LIMITATIONS, LOT COVERAGE PERCENTAGE AND FLOOR AREA RATIOS SHOULD BE APPROPRIATE TO THE NATURE OF THE PROJECT AND RELATE WELL TO SURROUNDING DEVELOPMENT." (Sec. 50-13-122)

RESIDENTIAL DENSITY

58 UNITS/0.29 ACRES = 200 UNITS PER ACRE

FAR

BUILDABLE LAND AREA = 39,501 SF

GROSS FLOOR AREA = 45,631 SF

FAR = 45,631/39,501

FAR = 1.16

LEGEND

	ELECTRIC MANHOLE
	HAND HOLE
	UTILITY POLE
	GAS VALVE
	LIGHT POLE WITH STREET LAMP
	SANITARY MANHOLE
	SQUARE CATCH BASIN
	FIRE HYDRANT
	WATER GATE MANHOLE
	WATER VALVE
	STEAM VAULT
	LIGHTPOST/LAMP POST
	SINGLE POST SIGN
	DECIDUOUS TREE (AS NOTED)
	OVERHEAD UTILITY LINE
	GAS LINE
	SEWER LINE
	WATER LINE
	STEAM LINE

NOTE: ALL UTILITIES SHOWN OUTSIDE THE PROPERTY BOUNDARY ARE EXISTING UNLESS OTHERWISE STATED.

PARKING REQUIREMENTS

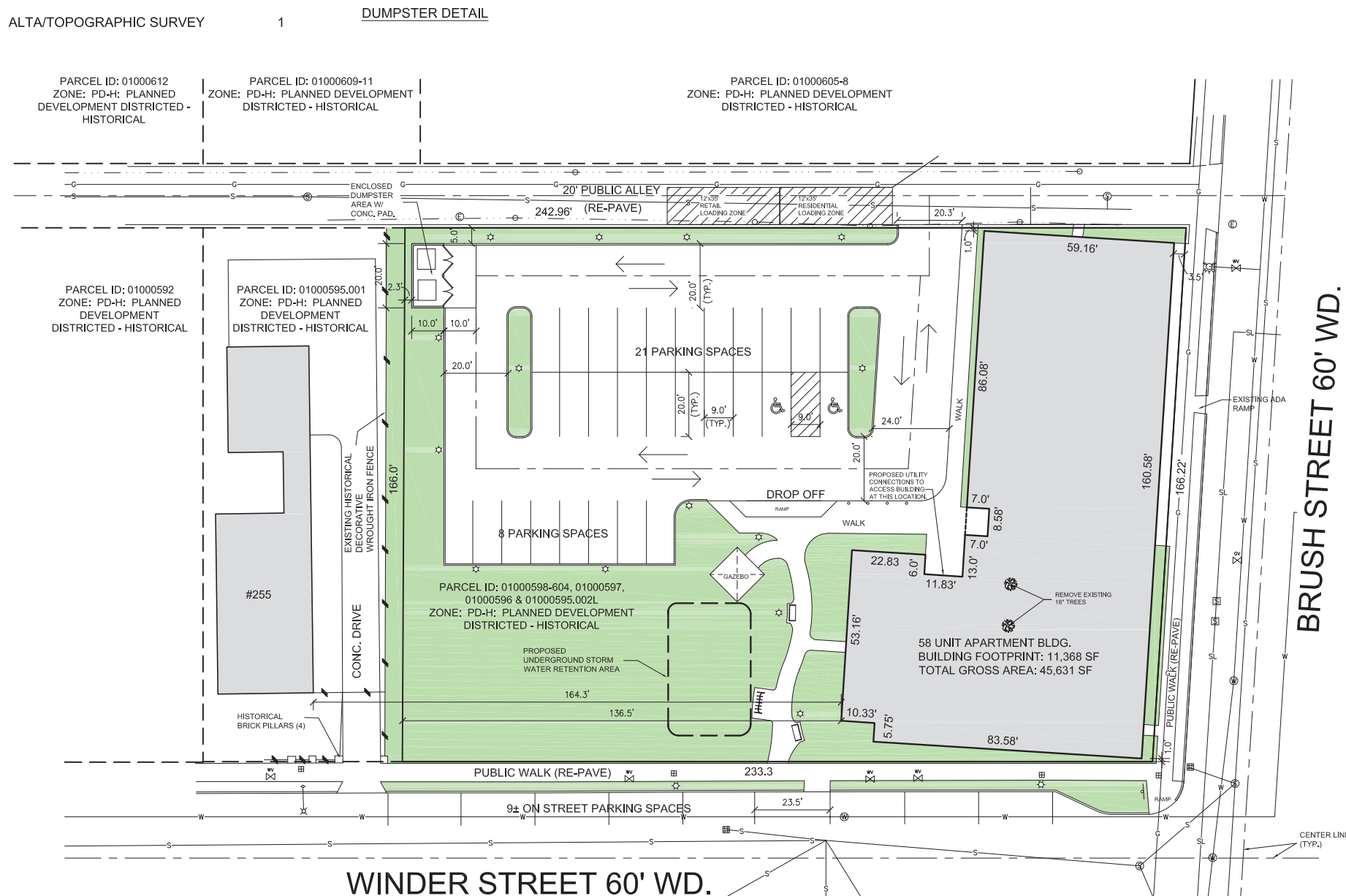
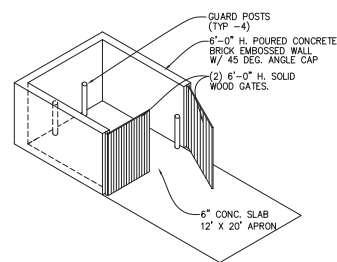
PD DISTRICT DESIGN CRITERIA
 "PARKING & LOADING. WHERE APPROPRIATE, ADEQUATE VEHICULAR OFF-STREET PARKING AND LOADING SHOULD BE PROVIDED. THE CITY PLANNING COMMISSION WILL BE GUIDED BY STANDARDS DELINEATED IN THIS CHAPTER WITH ADJUSTMENTS APPROPRIATE TO EACH SPECIFIC SITUATION." (Sec. 50-11-15 e)

PROVIDED:

OFF STREET PARKING -	29 SPACES
ON STREET PARKING* -	9± SPACES
TOTAL -	38 SPACES

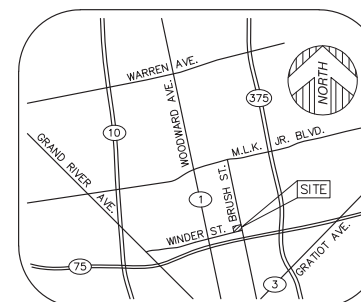
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ARCHITECTURAL SITE PLAN

SCALE: 1"=20'-0"

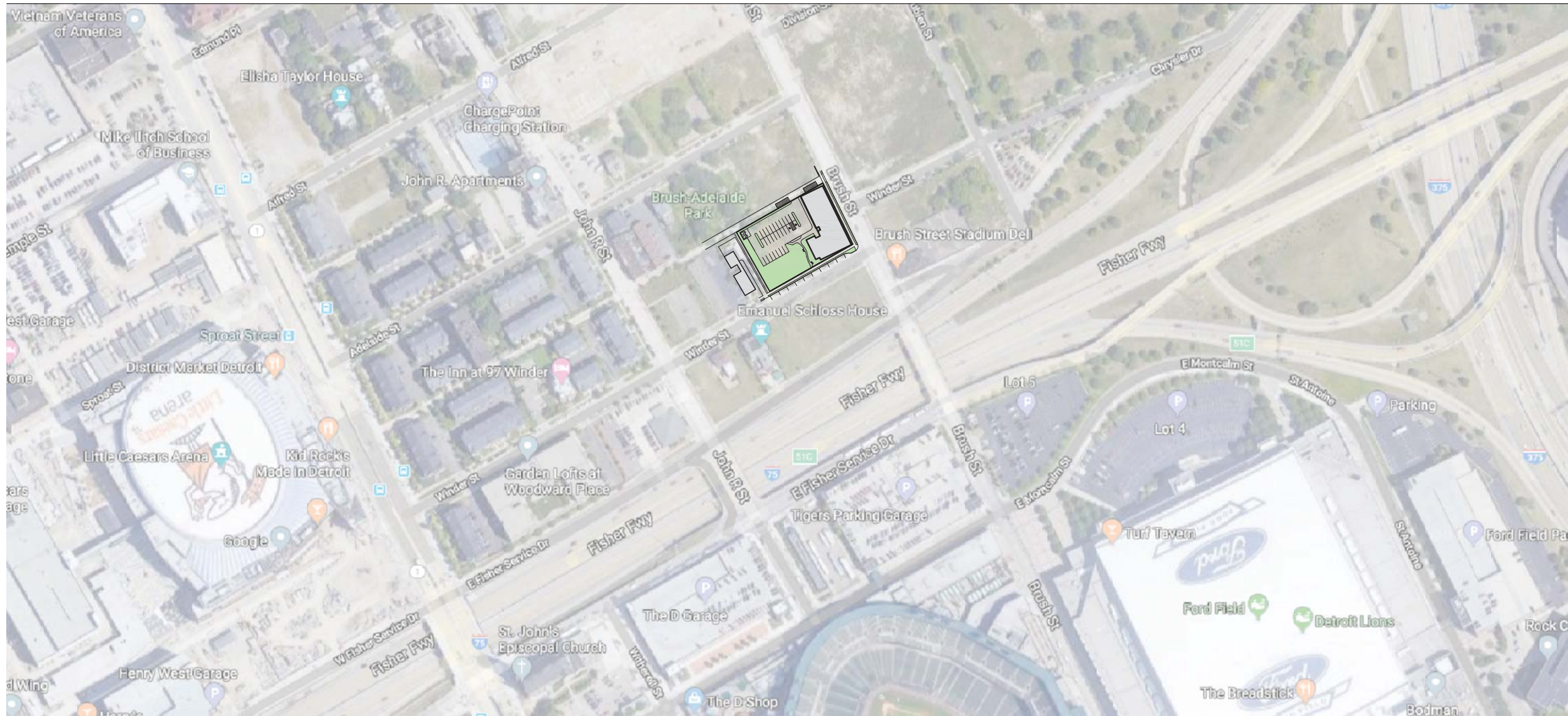


VICINITY MAP
(NOT TO SCALE)

ALL UTILITIES ARE TO BE PROPERLY LOCATED BY CIVIL ENGINEER FOR BUILDING PERMITS

STORM WATER RETENTION AREA WILL BE PROPERLY SIZED AND LOCATED FOR BUILDING PERMITS

#3	#2	#1	DATE	BY	DESCRIPTION
02-24-2020	02-13-2020	02-06-2020		JFG	HDC - COMMENTS HDC - PROJECT REVIEW PPR MEETING
CLIENT: MHT HOUSING, INC. BRUSH PARK APARTMENTS 269 WINDER, DETROIT, MICHIGAN SITE AREA: 39,501 ± SF OR 0.907 ± ACRES					
ARCHITECTURAL SITE PLAN					
PROFESSIONAL ARCHITECTS PROFESSIONAL ENGINEERS PROFESSIONAL SURVEYORS 22556 GRATIOT AVENUE EASTPOINTE, MI 48021 (586) 772-4048 FAX (586) 772-4048 FAX					
APPLICANT: MHT HOUSING, INC. 32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586.833-0550					
DRAWN BY: JFG	SCALE: 1" = 20'-0"	DATE: 11/22/19	PROJECT NO: 19-03104		
SHEET NO: ASP.1					



NEIGHBORHOOD SITE PLAN
NOT TO SCALE

REVISION	DATE	BY	DESCRIPTION
#1	02-06-2020	M.L./JFG	PPR MEETING
#2	02-13-2020	M.L.	HDC - PROJECT REVIEW
#3	02-24-2020	JFG	HDC - COMMENTS

CLIENT: **MHT HOUSING, INC.**
BRUSH PARK APARTMENTS
 269 WINDER, DETROIT, MICHIGAN
 SITE AREA: 39,501± SF OR 0.907 ± ACRES

NEIGHBORHOOD SITE PLAN

PROFESSIONAL ARCHITECTS
 PROFESSIONAL ENGINEERS
 PROFESSIONAL SURVEYORS
 22556 GRATIOT AVENUE
 EASTPOINTE, MI 48021
 (586) 772-4048 FAX



APPLICANT: **MHT HOUSING, INC.**
 32600 TELGRAPH RD. #102
 BINGHAM FARMS, MI 48025
 PHONE: 586 833-0550

DRAWN BY: JFG	SCALE: 1" = 20'-0"
DATE: 11/22/19	PROJECT NO: 19-03104

LANDSCAPING NOTES

- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL MATERIALS AND PLANTS SHOWN ON THE PLAN WHETHER OR NOT INCLUDED IN THE "PLANT LIST".
- ALL NURSERY STOCK TO BE WELL BRANCHED, HEALTHY, FULL, VIGOROUS, PRE INOCULATED, AND FERTILIZED. DECIDUOUS TREES TO BE FREE OF FRESH SCARS AND BRANCHES TO BE A HEIGHT OF 5' ABOVE ROOTBALL. TRUNKS SHALL BE WRAPPED, IF NECESSARY, TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPER SHALL REMOVE SAID WRAP AT THE PROPER TIME AS PART OF HIS CONTRACT.
- ALL NURSERY STOCK SHALL BE GUARANTEED.
- TOPSOIL, 4" THICK, SHALL BE PROVIDED AND GRADED BY THE LANDSCAPE CONTRACTOR AND SUBJECT TO APPROVAL BY THE OWNER.
- ALTERNATIVES MAY ONLY BE USED IN THE EVENT OF UNAVAILABILITY OF THE SELECTED SPECIES WITHIN A REASONABLE DISTANCE OR DUE TO SEASON. PROOF MAY BE REQUESTED BY THE ENGINEER.
- EVERGREEN TREES SHALL NOT BE PLANTED DURING JUNE, JULY, OR AUGUST.
- MULCH SHALL NOT CONTAIN ANY FARM WASTE AND SHALL BE INDICATED ON PLAN FOR EACH AREA.
- A CHEMICAL WEED PREVENTATIVE BARRIER SHALL BE APPLIED IN ALL NON-GRASS AREAS WHICH DO NOT HAVE POLYETHYLENE FILM MULCH INDICATED.
- REMOVE ALL TWINE, WIRE, AND BURLAP FROM SHRUB AND TREE EARTH BALLS AND FROM TREE TRUNKS.
- LAWN TREES TO BE MULCHED WITH A 2' WIDE BY MINIMUM 6" DEEP SHREDDED BARK RING.
- SHRUB BEDS TO BE MULCHED WITH 3" OF SHREDDED WOOD BARK.
- ALL SOD AND SEED TO BE KENTUCKY BLUE BLEND.

EXAMINATION OF SITE

- THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE HE SUBMITS HIS BID TO TO BECOME FAMILIAR WITH THE ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCE BETWEEN THE WORK AND THAT OF OTHER TRADES AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS. IF ANY INTERFERENCE OR VIOLATIONS APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE CONTRACT DOCUMENT S IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE ENTERING INTO THE CONTRACT WITH THE OWNER. FAILURE TO PROVIDE THE ARCHITECT/ENGINEER WITH THE AFOREMENTIONED NOTIFICATION WILL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE INTENT OF THE CONTRACT DRAWINGS WITH NO ADDITIONAL EXPENSE ("EXTRAS") BEING INCURRED BY THE OWNER.

CLEANING

- PREMISES SHALL BE CLEANED UPON COMPLETION OF THE WORK.
- UPON COMPLETION OF THE WORK, THOROUGHLY CLEAN ALL SYSTEMS AND TEST TO INSURE THAT THE SYSTEMS PERFORM TO THEIR REQUIREMENTS.

MAINTENANCE

- THE PROPERTY OWNER WILL TAKE CARE OF THE LANDSCAPING. A LANDSCAPING MAINTENANCE PLAN WILL BE DEVELOPED AS PER ENTERPRISE GREEN COMMUNITIES' REQUIREMENTS PER THE BUILDING AND OPERATIONS MANUAL AND WILL BE PROVIDED AT A LATER DATE.

LANDSCAPING NOTES

- ALL PLANT SIZES SHALL CONFORM WITH DETROIT'S ZONING ORDINANCE.
- MULCH SHALL BE INSTALLED AND MAINTAINED AT A MINIMUM DEPTH OF TWO (2) INCHES AND A MAXIMUM DEPTH OF FOUR (4) INCHES ON ALL PLANTED AREAS.
- ALL UNPAVED AREAS WILL BE COVERED WITH GRASS UNLESS OTHERWISE SPECIFIED.
- ALL HEDGES PLACED WITHIN TWENTY (20) FEET OF THE FRONT PUBLIC SIDEWALK SHALL BE LIMITED TO THREE (3) FEET IN HEIGHT ABOVE THE GRADE OF THE PUBLIC SIDEWALK.
- INTERIOR LANDSCAPED AREAS WILL MAXIMIZE EFFECTIVE STORMWATER MANAGEMENT BY AS LISTED WITHIN THE DETROIT ZONING ORDINANCE.

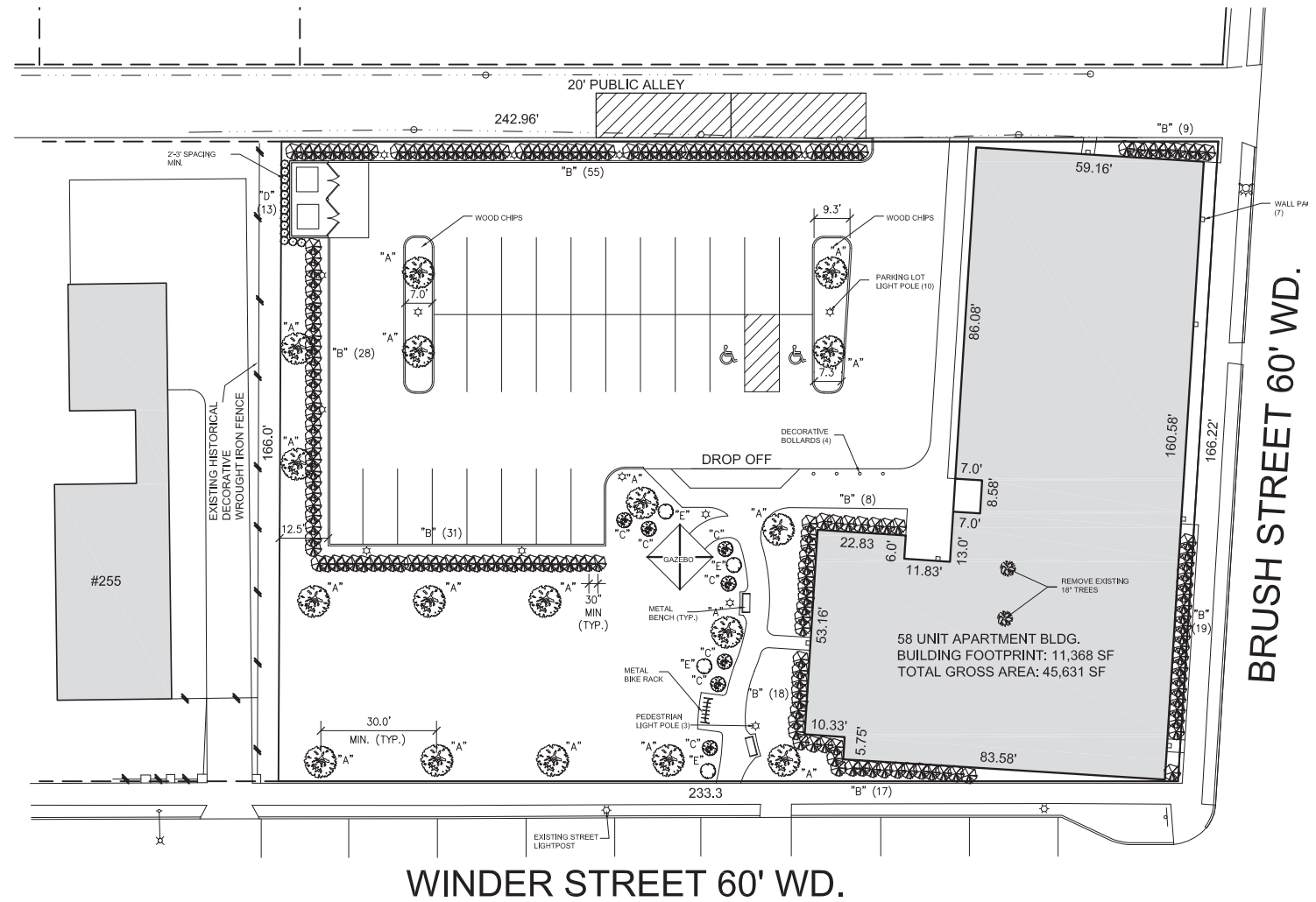
IRRIGATION

- REQUIRED LANDSCAPED AREAS SHALL BE IRRIGATED AS NECESSARY TO MAINTAIN REQUIRED PLANT MATERIALS IN GOOD AND HEALTH CONDITION.
- ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY. WATER OUTLETS (HOSE BIBBS) SHALL BE PROVIDED WITHIN ONE HUNDRED (100) FEET OF ALL REQUIRED PLANT MATERIALS UNLESS SUBSURFACE IRRIGATION SYSTEM IS USED AND
- IRRIGATION SYSTEMS SHALL BE CONTINUOUSLY MAINTAINED IN WORKING ORDER AND SHALL BE DESIGNED TO PREVENT OVERLAP OF WATER ZONES AND TO PREVENT WATERING OF IMPERVIOUS AREAS.

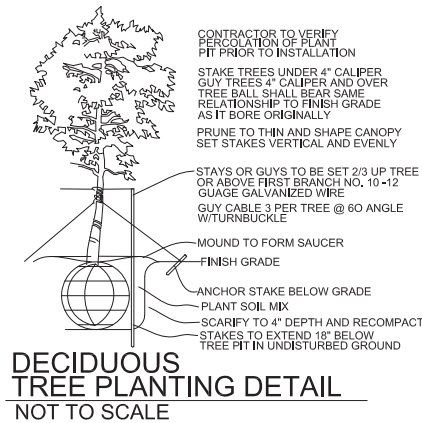
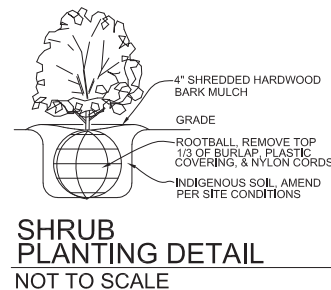
SITE LIGHTING

- NOTE THAT SITE LIGHTING HAS NOT BEEN PROPERLY DESIGNED AT THIS TIME. A PHOTOMETRIC PLAN WILL BE COMPLETED FOR THE SITE PLAN REVIEW. AFTER THE CITY'S APPROVAL, A LICENSE CIVIL ENGINEER WILL PROPERLY DESIGN THE LIGHT FIXTURE LOCATIONS.

LANDSCAPING CALCULATIONS	
INTERIOR LANDSCAPE REQUIRED:	
29 OFF STREET PARKING SPACE = 18 SF OF LANDSCAPED AREA	29x18 = 522 SF
PROVIDED:	
595 SF	
REQUIRED:	
1 SHADE TREE FOR EVERY 250 SF	595/250 = 3 SHADE TREES
PROVIDED:	
4 SHADE TREES	
LANDSCAPE AREA	
11,798 SF OF LANDSCAPE AREA	
39,501 PROPERTY SIZE	
11,798/39,501 = 30% LANDSCAPE AREA	



ARCHITECTURAL SITE PLAN
SCALE: 1"=20'-0"



LANDSCAPING SCHEDULE				
SYM.	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE
"A"	17	SHADEMASTER HONEYLOCUST (NO THORNS)	GLEDITSIA TRICANTHOS INERMIS :SHADEMASTER"	2.5" CAL.
"B"	185	YEWE	TAXUS	18" HEIGHT MIN.
"C"	7	WAYFARING TREE	VIBURNUM LANTANA	3'
"D"	6	AMERICAN ARBORVITAE	TSUGA CANADENSIS	4'-5'
"E"	4	DWARF WINGED EUONYMUS	EUONYMUS ALETA COMPACTA	5'-7'

CLIENT: MHT HOUSING, INC.
BRUSH PARK APARTMENTS
 269 WINDER, DETROIT, MICHIGAN
 SITE AREA: 39,501± SF OR 0.907 ± ACRES

PROFESSIONAL ARCHITECTS
 PROFESSIONAL ENGINEERS
 PROFESSIONAL SURVEYORS
 22556 GRATIOT AVENUE
 EASTPOINTE, MI 48021
 (586) 772-2222 PHONE
 (586) 772-4048 FAX

KEM-TEC & ASSOCIATES

APPLICANT: MHT HOUSING, INC.
 32600 TELGRAPH RD. #102
 BINGHAM FARMS, MI 48025
 PHONE: 586 833-0550

REVISION #1
 DATE 02-13-2020
 M.L./JFG

REVISION #2
 DATE 02-06-2020
 M.L./JFG

BY JFG
 DATE 02-24-2020
 JFG

COMMENTS
 PROJECT REVIEW
 PPR MEETING
 DESCRIPTION

LANDSCAPE PLAN

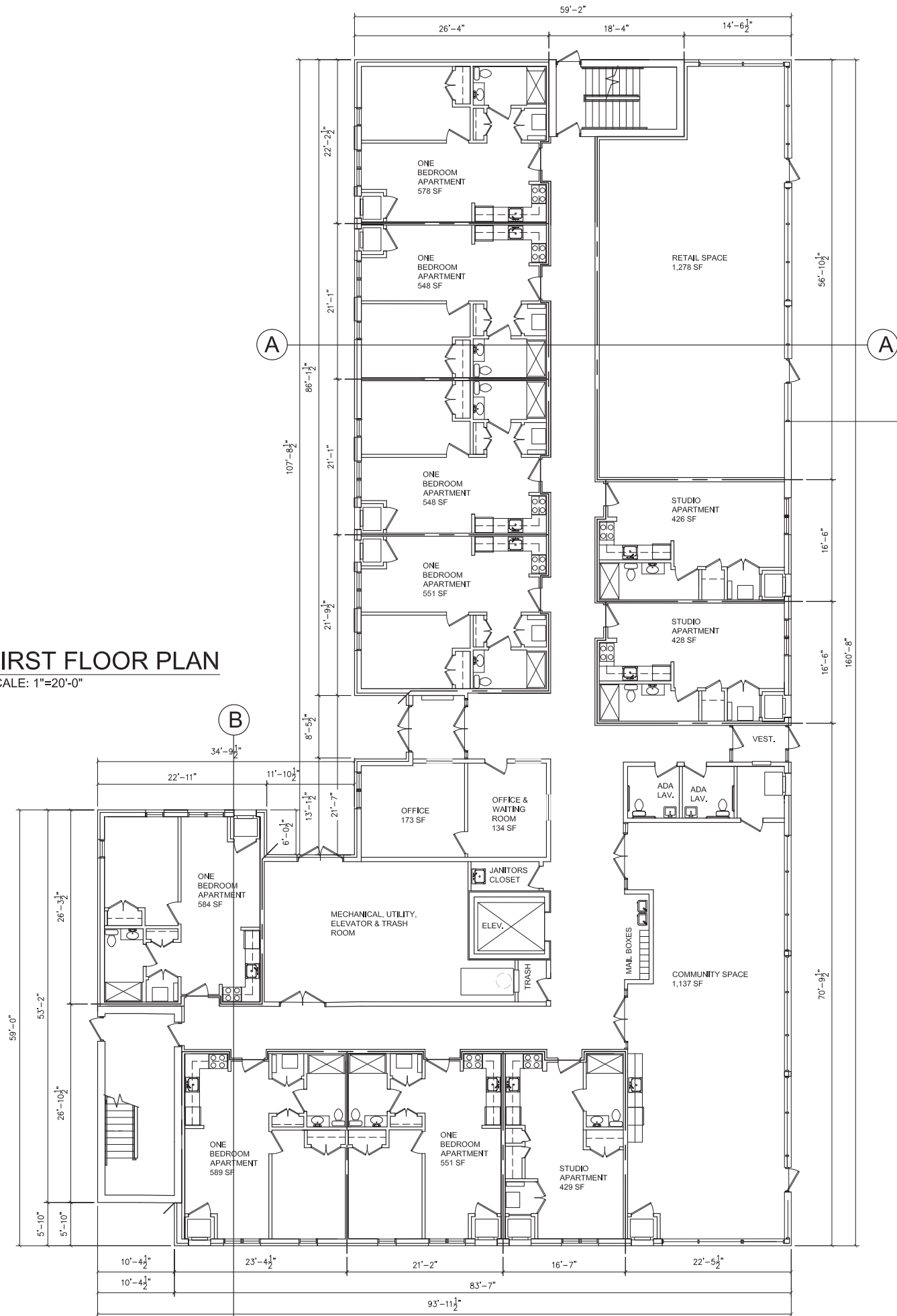
SCALE: 1" = 20'-0"
 DATE: 1/22/19
 PROJECT NO: 19-03104

SHEET NO: LP.1



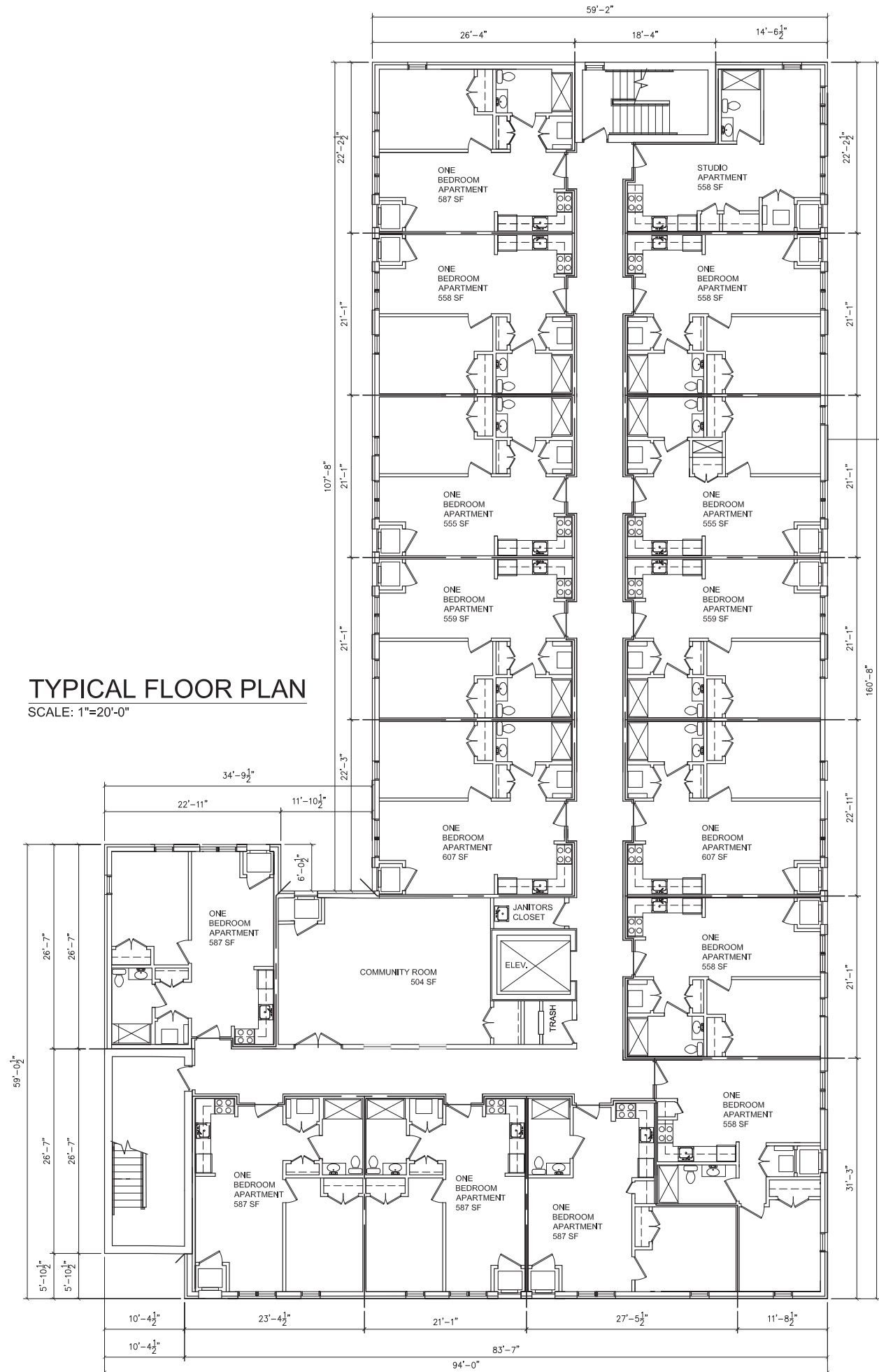
FIRST FLOOR PLAN

SCALE: 1"=20'-0"

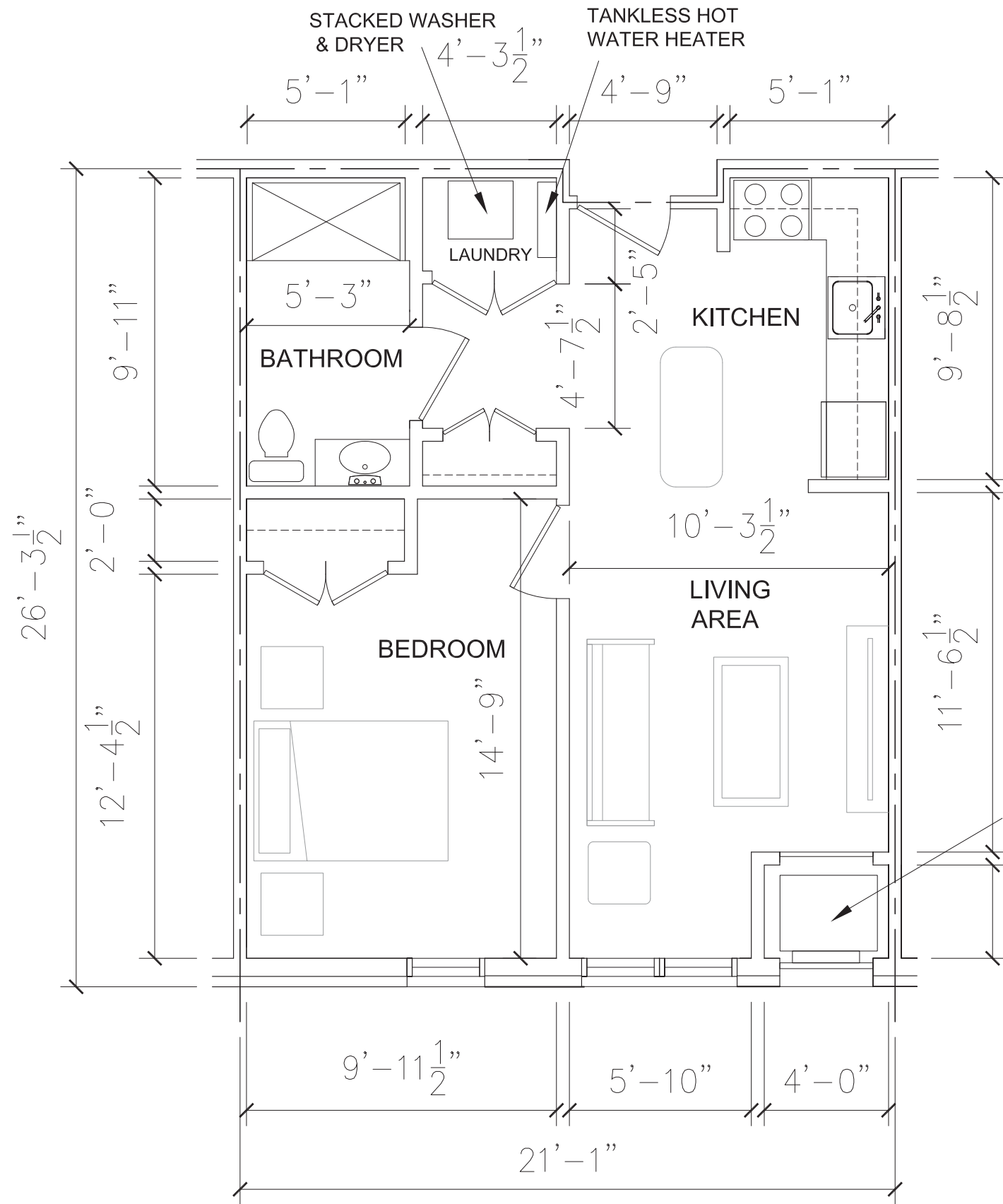


TYPICAL FLOOR PLAN

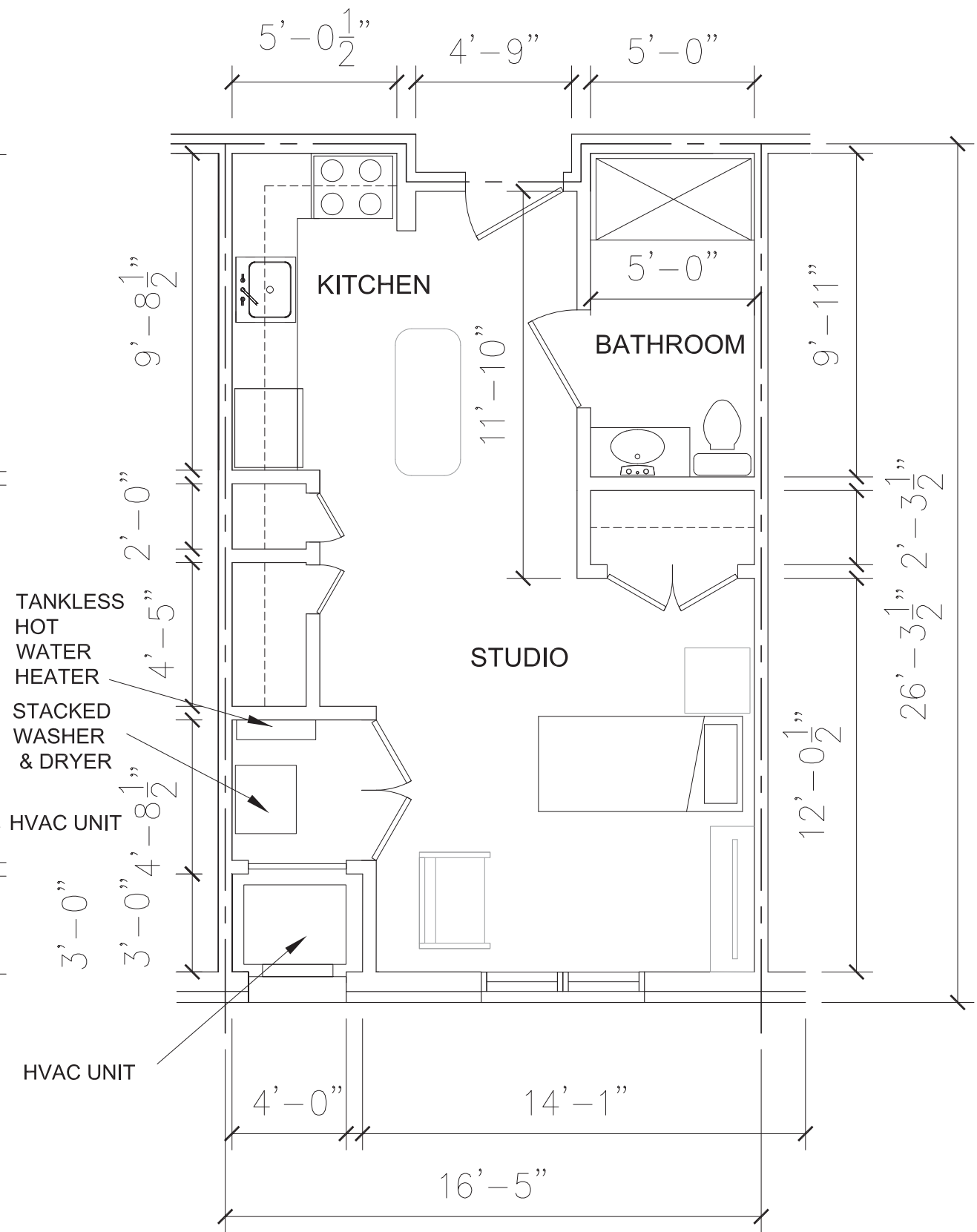
SCALE: 1"=20'-0"



CLIENT:	MHT HOUSING, INC.		
PROJECT:	BRUSH PARK APARTMENTS		
LOCATION:	269 WINDER, DETROIT, MICHIGAN		
SITE AREA:	39,501± SF OR 0.907 ± ACRES		
PROFESSIONAL ARCHITECTS	KEM-TEC & ASSOCIATES		
PROFESSIONAL ENGINEERS	KEM-TEC & ASSOCIATES		
PROFESSIONAL SURVEYORS	KEM-TEC & ASSOCIATES		
ADDRESS:	32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025		
PHONE:	586 833-0550		
APPLICANT:	MHT HOUSING, INC.		
DATE:	1/22/19	DATE:	02-24-2020
SCALE:	1" = 20'-0"	DATE:	02-13-2020
PROJECT NO.:	19-03104	DATE:	02-06-2020
SHEET NO.:	A.1.1	DATE:	
REVISION	DATE	BY	DESCRIPTION
#1		M.L./JFG	HDC - COMMENTS
#2		M.L./JFG	HDC - PROJECT REVIEW
#3		JFG	PPR MEETING



TYPICAL 1-BED UNIT FLOOR PLAN
SCALE: 1/2" = 1'-0"



TYPICAL STUDIO UNIT FLOOR PLAN
SCALE: 1/2" = 1'-0"

DRAWN BY: JFG
 SCALE: 1/8" = 1'-0"
 DATE: 11/22/19
 PROJECT NO: 19-03104

APPLICANT: MHT HOUSING, INC.
 32600 TELGRAPH RD. #102
 BINGHAM FARMS, MI 48025
 PHONE: 566.833-0550



KEM-TEC
 & ASSOCIATES
 PROFESSIONAL ARCHITECTS
 PROFESSIONAL ENGINEERS
 PROFESSIONAL SURVEYORS
 22556 GRATIOT AVENUE
 EASTPOINTE, MI 48021
 (566)772-2222 PHONE
 (566)772-4048 FAX

TYPICAL UNIT PLANS

CLIENT: MHT HOUSING, INC.
BRUSH PARK APARTMENTS
 269 WINDER, DETROIT, MICHIGAN
 SITE AREA: 39,501± SF OR 0.907 ± ACRES

REVISION	DATE	BY	DESCRIPTION
#1	02-06-2020	M.L./JFG	PPR MEETING
#2	02-13-2020	M.L.	HDC - PROJECT REVIEW
#3	02-24-2020	JFG	HDC - COMMENTS



EAST ELEVATION
SCALE: 1/8" = 1'-0"

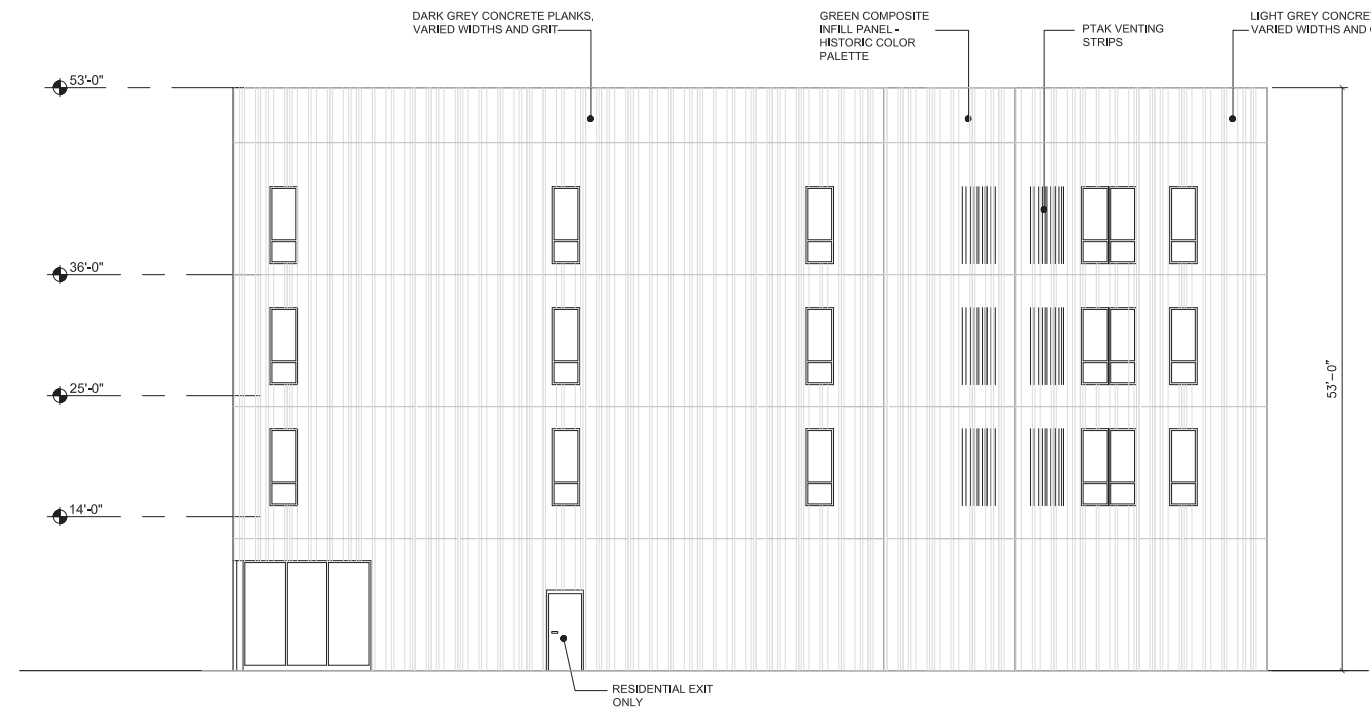


SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

DRAWN BY: JFG		SCALE: 1/8" = 1'-0"		PROJECT NO: 19-03104	
DATE: 11/22/19		SHEET NO:		A.2.1	
APPLICANT: MHT HOUSING, INC. 32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586.833-0550					
 KEM-TEC & ASSOCIATES					
PROFESSIONAL ARCHITECTS PROFESSIONAL ENGINEERS PROFESSIONAL SURVEYORS 22556 GRATIOT AVENUE EASTPOINTE, MI 48021 (586) 772-2222 PHONE (586) 772-4048 FAX					
EXTERIOR ELEVATIONS					
CLIENT: MHT HOUSING, INC. BRUSH PARK APARTMENTS 269 WINDER, DETROIT, MICHIGAN SITE AREA: 39,501± SF OR 0.907 ± ACRES					
#3 02-24-2020 JFG		#2 02-13-2020 M.L.		#1 02-06-2020 M.L./JFG	
HDC - COMMENTS		HDC - PROJECT REVIEW		PPR MEETING DESCRIPTION	

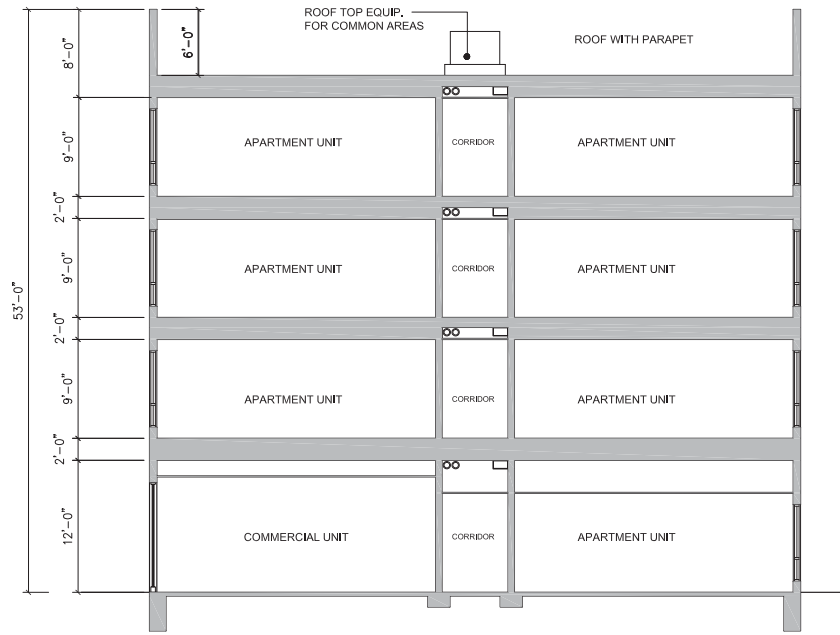


WEST ELEVATION
SCALE: 1/8" = 1'-0"

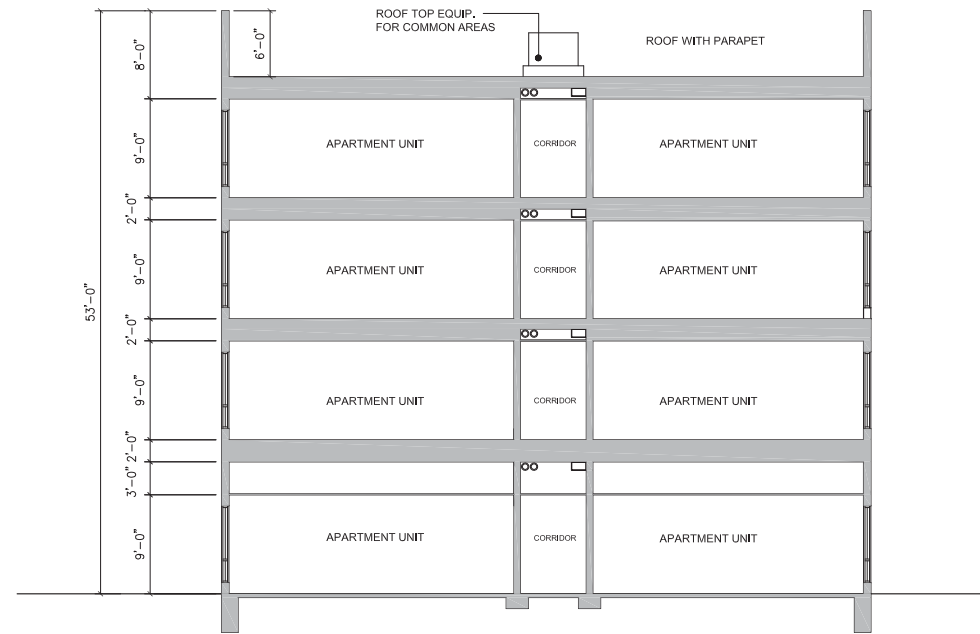


NORTH ELEVATION
SCALE: 1/8" = 1'-0"

DRAWN BY: JFG		SCALE: 1/8" = 1'-0"		PROJECT NO: 19-03104	
DATE: 11/22/19		APPLICANT: MHT HOUSING, INC. 32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586.833-0550		SHEET NO: A.2.2	
PROFESSIONAL ARCHITECTS PROFESSIONAL ENGINEERS PROFESSIONAL SURVEYORS 22556 GRATIOT AVENUE EASTPOINT, MI 48021 (586) 772-2222 PHONE (586) 772-4048 FAX					
KEM-TEC & ASSOCIATES					
EXTERIOR ELEVATIONS					
CLIENT: MHT HOUSING, INC.					
BRUSH PARK APARTMENTS					
269 WINDER, DETROIT, MICHIGAN					
SITE AREA: 39,501± SF OR 0.907 ± ACRES					
REVISION	DATE	BY	DESCRIPTION		
#3	02-24-2020	JFG	HDC - COMMENTS		
#1	02-13-2020	M.L.	HDC - PROJECT REVIEW		
#1	02-06-2020	M.L./JFG	PPR MEETING		



A-A BUILDING SECTION
SCALE: 1/8" = 1'-0"



B-B BUILDING SECTION
SCALE: 1/8" = 1'-0"

DRAWN BY: JFG		SCALE: 1/8" = 1'-0"		DATE: 11/22/19		PROJECT NO: 19-03104	
APPLICANT: MHT HOUSING, INC. 32600 TELGRAPH RD. #102 BINGHAM FARMS, MI 48025 PHONE: 586.833-0550				APPLICANT: MHT HOUSING, INC. BRUSH PARK APARTMENTS 269 WINDER, DETROIT, MICHIGAN SITE AREA: 39,501± SF OR 0.907 ± ACRES			
BUILDING SECTIONS							
CLIENT: MHT HOUSING, INC.							
PROFESSIONAL ARCHITECTS PROFESSIONAL ENGINEERS PROFESSIONAL SURVEYORS 22556 GRATIOT AVENUE EASTPOINT, MI 48021 (586) 772-2222 PHONE (586) 772-4048 FAX							
KEM-TEC & ASSOCIATES							
REVISION		DATE		BY		DESCRIPTION	
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#3		02-24-2020		JFG		HDC - COMMENTS	



ENVIRONMENTAL SERVICES
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SKGUYOT@GMAIL.COM

18640 MACK AVE., SUITE 1029
GROSSE POINTE, MI 48236

October 4, 2021

Mr. Michael Vollick
Environmental Officer
Michigan State Housing Development Authority
735 East Michigan Avenue
P. O. Box 30044
Lansing, Michigan 48909

RE: Phase II Subsurface Work Plan for 9% Tax Credit Proposal No. L21057 Brush Park Apartments, Detroit (ESGPW Project No. 21-082)

Dear Mr. Vollick:

As requested, Environmental Services GPW LLC (ESGPW) has prepared a site-specific work plan to conduct a subsurface environmental investigation of the following Property; Parcel A: 2515 Brush Street Parcel No. 01000598-604 (0.17 acres), Parcel B: 291 Winder Street, Parcel No. 01000597 (0.17 acres), Parcel C: 281 Winder Street, Parcel No. 01000596 (0.15 acres), and Parcel D: 269 Winder Street, Parcel No. 01000595.002L (0.42 acres) in order to address identified the following Recognized Environmental Condition (RECs) and/or Vapor Encroachment Conditions (VECs):

- i. Parcel A (2515 Brush Street) was occupied as a drycleaner from the 1950s until the 1970s. Although this parcel was evaluated during a previous subsurface investigation, only one soil boring was advanced during the subsurface investigation. It is the former consultant's opinion the former drycleaner represents an REC requiring additional evaluation.
- ii. Parcel D (269 Winder Street) contained two outbuildings that were occupied as an electric shop and automobile repair shop from the 1950s until the 1990s. Although this parcel was evaluated during a previous subsurface investigation, only one soil boring was advanced within the footprint of these former buildings during the subsurface investigation. It is the former consultant's opinion the former electric shop and automobile repair represent an REC requiring additional evaluation.
- iii. After demolition of the former dwelling on Parcel B (291 Winder Street), soil that had been dumped on a parcel nearby was partially used to backfill the void on Parcel B after demolition. It is former consultant's opinion the fill material, buried building debris, and soil mound represents an REC.



- iv. During previous environmental investigations, contamination was identified in soil samples collected from each of the subject property parcels at concentrations in excess of the EGLE RCC, defining the subject property as a facility.

The subsurface investigation and soil gas survey will determine if potential previous contamination at the property to impact proposed construction by creating a soil contact risk or a vapor intrusion pathway. This proposed investigation work plan is being forwarded to MISHDA for consideration and preapproval.

The soil gas survey event will consist of ten borings completed to a depth of 12' feet below site grade at the locations of a former drycleaner (2515 Brush St.) and two outbuildings formerly identified as an automobile repair and electric shop (269 Winder St.) The purpose of these soil borings is to determine the extent of soil impact if present within the proposed building footprint and associated construction areas and determine the potential for any previous contamination to create a vapor intrusion pathway. Physical soil samples will be collected from each of the ten soil borings and then the annular space of the core hole will be converted into a soil vapor sampling point with the soil gas collection screen interval being approximately 4' below grade. Samples will be collected in soil intervals which exhibit and physical characteristic such as staining, olfactory odor, or detections from a screening device such as a photoionization device (PID). Samples will be collected from the subsurface intervals which contain potential chemical constituents of the former historical activities involving dry cleaning operations, automobile, and electric repairs. Analysis of soil will be for VOC, PNAs, MI-10 Metals, on all samples collect and the addition of PCBs in the area of documented electrical repair.

Soil samples will be collected from multiply strata layers including areas of staining or impact, areas of fill, and areas underlying fill, in addition to bottom of boring intervals. Samples of bottom of borings may be held at the laboratory pending the receipt of initial analysis results and run if upper lying strata should show impact. The lower soil sample and end of boring sample may be run for only constituent of concern if additional soil data is needed to define the vertical and horizontal extent of impact of VOC, PNAs, MI-10 Metals, or PCBs.

Within these areas where soil gas is a concern, drilling well pack sand will be used from the area surrounding the stainless-steel screen, while bentonite gel will be used to ensure that soil vapor is only collected from the designate area of the sampling screen. A low volume sampling pump will be used to purge excess air trapped within the sampling line and the screen prior to collection of a small volume bottle vac for TO-15 analysis. Standard TO-15 quality control measures will be utilized to ensure there is no breach of the sampling connections during sample collection activities. Samples will be collected and then shipped via courier to Merit Laboratories for analysis of TO-15 parameters including Tetrachloroethene, Trichloroethene, and 1,2,4-trimethyl-benzene; compounds known to be



associated with dry cleaning activities at the 2515 Brush St. parcel. In addition to the soil gas analysis several soil samples will also be collected from several intervals of each boring location for VOC, PNA and MI 10-Metals analysis. Soil samples collected from the 269 Winder St. parcel will be submitted for VOC, PNA, MI 10-Metals analysis and PCB analysis, due to the known former automobile and electrical repair activities. In all borings soil samples will be collected from any intervals or areas exhibiting staining, odor and detection from a photo-ionization device used to screen soil. All analysis will also be performed by Merit Laboratories, Inc. and all soils will also be jarred and collected for examination by the professional geologist and MeOH preserved. If initial analysis result indicated the presence of PNAs or metals in excess of applicable GRCC criterion addition soil gas analysis at these soils gas collection points for TO-17 or volatile metals would be obtained during an additional sample event near and immediate future.

To address additional concerns regarding the potential for fill material, buried building debris, and former soil mounds at intermediary parcels at 281 and 291 Winder St. an additional 12 to 16 borings will be advanced without the installation of soil gas collection screens. Borings will be advanced into native clay material and will extend no less than 12' below grade. Soils samples will be collected from the intervals most exhibiting characteristics of fill material and any other unusual areas of impact, staining or odorous soils which are encountered during these soil borings. Gathering additional soil samples for potential soil contamination will also be done to define horizontal and vertical extent of fill material through laboratory analysis. Sample collection preference would be given to any if fill impacted, debris containing, stained or odorous soils that are encountered during the soil boring activities. Samples will be collected at various intervals within each boring to define the content of any potential fill material, underlying soils and conditions at the bottom of the boring extent in necessary. Some samples will be held for future analysis if initial soil conditions and contaminant impact show concern. VOC and PNA analysis will be required immediately after data tabulation and MI-10 Metals may be run within in the next several months if required.

All data will be tabulated and included within a Phase II report of findings to determine if the Property parcels are a facility. If the Property parcels are determined to be a "Facility" additional site work may be required to prepare the required additional reports which will be required. These steps will address the recommended MSHDA requirements and will include the following:

- a) For change of ownership, prepare and submit a BEA to EGLE. Provide copies of the BEA and EGLE acknowledgement to MSHDA;
- b) Obtain approval of a Response Activity Plan (RespAP) from EGLE. MSHDA must be allowed to review and comment on the RespAP prior to submittal to EGLE. Provide copies of the RespAP and EGLE approval to MSHDA. *(If a Vapor Mitigation System is required, consultant is to*



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18640 MACK AVE., SUITE 1029
GROSSE POINTE, MI 48236

coordinate with EGLE project manager prior to submitting a RespAP to ensure the proposed system meets EGLE design and test-out parameters. Consultant to reference EGLE's 2013 Guidance Document for the Vapor Intrusion Pathway including VMS design checklists in Appendices C.5 and C.6.)

Once soil analysis data is obtained a clear understanding of additional requirements and the proper sequence of required additional work will be more transparent. A new scope of work to address any additional requirements will be assembled at that point. If following the review of this Phase II Subsurface Investigation Work Plan additional sampling points or parameters are required, the work will be amended to reflect these potential concerns at once. Thank you in advance your help and consideration with this work plan and if you have questions regarding this field work or report of findings preparation for this requested work, please do not hesitate to contact me at your convenience.

Respectfully Submitted,

ENVIRONMENTAL SERVICES GPW, LLC

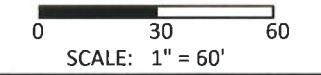
Steven K. Guyot, EP
Senior Geologist



SUBJECT PROPERTY MAP

269-291 WINDER STREET AND 2515 BRUSH STREET
 DETROIT, MICHIGAN
 PROJECT NUMBER: 21-082

DATE: 10-4-2021



FIGURE

Soil Descriptions of Soil Borings SB-1 through SB-28

SB1

0-4" topsoil

4" – 1.25' dark unconsolidated fill (sample @ 1.0')

1.25'-3.5' light brown sand and gravel mix

3.5'-6.0' light brown medium grained sand (sample @ 5.0')

6.5'-12.0' light brown gray and brown clay

12.0' EOB (sample @ 12.0')

SB2

0-3" topsoil

3"-0.5' gravel

0.5'-2.5' brown silty clay

2.5'-4.5' dark unconsolidated fill brick, glass and sand (sample @ 3.0')

4.5'-6.0' light brown medium grained sand (sample @ 6.0')

6.0'-12.0' light brown gray and brown clay

12.0' EOB (sample @ 12.0')

SB3

0-2" topsoil

2"-4.0' light brown silty clay w/pebbles (sample @ 1.0')

4.0'-5.0' dark unconsolidated fill

5.0'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0' EOB (sample @ 12.0')

SB4

0-2" topsoil

2"-4.0' light brown silty clay w/pebbles (sample @ 1.0')

4.0'-5.0' dark unconsolidated fill

5.0'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0' EOB (sample @ 12.0')

SB5

0-3"topsoil

3"-3.0' dark brown sandy clay (sample @ 2.0')

3.0'-5.0' dark unconsolidated fill (sample @ 4.0')

5.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB6

0-3" topsoil

3"-2.5' light brown silty clay (sample @ 1.0')

2.5'-4.5' dark unconsolidated fill

4.5'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0 EOB (sample @ 12.0')

SB7

0-3"topsoil

3"-2.0' dark brown sandy clay (sample @ 1.0')

2.0'-4.5' dark unconsolidated fill

4.5'-12.0' light brown gray and brown clay (sample @ 6.0')

12.0 EOB (sample @ 12.0')

SB8

0-4"topsoil

4"-2.5' dark brown sandy clay (sample @ 2.0')

2.5'-5.0' dark unconsolidated fill (sample @ 5.0')

5.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB9

0-2" topsoil

2"-3.0' fill mix of brick and clay (sample @ 2.0')

3.0'-5.0' clay fill

5.0'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0 EOB (sample @ 12.0')

SB10

0-2" topsoil

2"-3.0' fill mix of brick and clay (sample @ 2.0')

3.0'-5.0' clay fill (sample @ 5.0')

5.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB11

0-1.0' topsoil

1'-3.0' mix of brown sand and clay

3.0'-5.0' sandy clay fill (sample @ 3.0')

5.0'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0 EOB (sample @ 12.0')

SB12

0-1.0' topsoil

1'-3.0' mix of brick, sand and clay (sample @ 2.0')

3.0'-5.0' sandy clay fill (sample @ 5.0')

5.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB13

0-1.0' concrete gravel and rubble
1'-3.0' dark unconsolidated fill (sample @ 2.0')
3.0'-5.0' sandy clay fill (sample @ 4.0')
5.0'-12.0' light brown gray and brown clay
12.0 EOB (sample @ 12.0')

SB14

0-6" topsoil
6"-3.0' dark brown mix of brown sand and clay fill with brick (sample @ 2.0')
3.0'-5.0' sandy clay fill (sample @ 4.0')
5.0'-7.0' silty light brown clay
7.0'-12.0' light brown gray and brown clay
12.0 EOB (sample @ 12.0')

SB15

0-4" topsoil
4"-2.5' dark brown mix of brown sand and clay fill with brick (sample @ 2.0')
2.5'-4.5' sandy clay fill
4.5'-7.0' silty light brown clay (sample @ 5.0')
7.0'-12.0' light brown gray and brown clay
12.0 EOB (sample @ 12.0')

SB16

0-4" topsoil
4"-3.0' dark brown mix of brown sand and clay fill with brick (sample @ 2.0')
3.0'-5.0' sandy clay fill (sample @ 5.0')
5.0'-7.0' silty light brown clay
7.0'-12.0' light brown gray and brown clay
12.0 EOB (sample @ 12.0')

SB17

0-4" topsoil

4"-2.75' dark brown mix of brown sand and clay fill with brick (sample @ 2.0')

2.75'-4.0' sandy clay fill

4.0'-7.0' silty light brown clay (sample @ 4.5')

7.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB18

0-6" topsoil

0.5'-2.5' dark brown mix of brown sand and clay fill with brick (sample @ 2.0')

2.5'-5.0' sandy clay fill (sample @ 5.0')

5.0'-7.0' silty light brown clay

7.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB19

0-3" topsoil

3"-2.0' mix of coarse sand and gravel

2.0'-3.0' gravel mix with clay (sample @ 3.0')

3.0'-3.5' dark unconsolidated fill

3.5'-4.5' light brown silty clay

4.5'-12.0' light brown gray and brown clay (sample @ 5.0')

12.0 EOB (sample @ 12.0')

SB20

0-5" gravel

5"-2.0' silty clay

2.0'-2.5' brick

SB20 (cont.)

2.5'-4.5' dark unconsolidated fill (sample @ 3.5')

4.5'-7.0' light brown silty clay (sample @ 5.0')

7.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB21

0-3" topsoil

3"-1.5' silty sand and gravel

1.5-4.5' dark unconsolidated fill with brick and glass (sample @ 3.5')

4.5'-8.0' light brown silty clay (sample @ 5.0')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB22

0-3" topsoil

3"-1.0' silty clay

1.5-3.5' dark unconsolidated clay fill with brick and glass (sample @ 1.5')

3.5'-8.0' light brown silty clay (sample @ 4.0')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB23

0-3" topsoil

3"-0.5' silty clay

0.5'-4.5' dark unconsolidated clay fill with brick (sample @ 0.5')

4.5'-8.0' light brown silty clay (sample @ 5.0')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB24

0-3" topsoil

3"-0.5' gravel

0.5'-3.0' dark unconsolidated clay fill with brick and rubbish
(sample @ 0.5') (Duplicate Sample 1)

3.0'-8.0' light brown silty clay (sample @ 5.0')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB25

0-3" topsoil

3"-4.0' dark unconsolidated fill with brick and glass (sample @ 1.0')

4.0'-7.0' light brown silty clay (sample @ 4.5')

7.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB26

0-3" topsoil

3"-1.0' dark unconsolidated fill (sample @ 1.0')

1.0'-3.0' dark unconsolidated fill with brick and rubbish

3.0'-4.5' fill with sand and clay

4.5'-8.0' light brown silty clay (sample @ 5.0')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB27

0-1.0' light brown silty clay

1.0'-3.0' dark unconsolidated fill (sample @ 2.0')

SB27 (cont.)

3.0'-4.5' fill with sand and clay (sample @ 4.5')

4.5'-8.0' light brown silty clay

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')

SB28

0-1.0' light brown silty clay

1.0'-3.0' dark unconsolidated fill (sample @ 2.0')

3.0'-8.0' light brown silty clay (sample @ 4.5')

8.0'-12.0' light brown gray and brown clay

12.0 EOB (sample @ 12.0')



Analytical Laboratory Report

Report ID: S29183.01(01)
Generated on 10/22/2021

Report to

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Report Summary

Lab Sample ID(s): S29183.01-S29183.86
Project: Brush Park Apartments
Collected Date(s): 10/08/2021
Submitted Date/Time: 10/11/2021 15:40
Sampled by: Steve Guyot
P.O. #: 21-082

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007



Analytical Laboratory Report

Sample Summary (86 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S29183.01	SB-1 @ 1'	Soil	10/08/21 08:05
S29183.02	SB-1 @ 5'	Soil	10/08/21 08:10
S29183.03	SB-1 @ 12'	Soil	10/08/21 08:12
S29183.04	SB-2 @ 3'	Soil	10/08/21 08:14
S29183.05	SB-2 @ 6'	Soil	10/08/21 08:17
S29183.06	SB-2 @ 12'	Soil	10/08/21 08:20
S29183.07	SB-3 @ 1'	Soil	10/08/21 08:21
S29183.08	SB-3 @ 5'	Soil	10/08/21 08:24
S29183.09	SB-3 @ 12'	Soil	10/08/21 08:27
S29183.10	SB-4 @ 1'	Soil	10/08/21 08:28
S29183.11	SB-4 @ 5'	Soil	10/08/21 08:31
S29183.12	SB-4 @ 12'	Soil	10/08/21 08:37
S29183.13	SB-5 @ 2'	Soil	10/08/21 08:45
S29183.14	SB-5 @ 4'	Soil	10/08/21 09:01
S29183.15	SB-5 @ 12'	Soil	10/08/21 09:10
S29183.16	SB-6 @ 1'	Soil	10/08/21 09:15
S29183.17	SB-6 @ 5'	Soil	10/08/21 09:20
S29183.18	SB-6 @ 12'	Soil	10/08/21 09:27
S29183.19	SB-7 @ 1'	Soil	10/08/21 09:35
S29183.20	SB-7 @ 6'	Soil	10/08/21 09:41
S29183.21	SB-7 @ 12'	Soil	10/08/21 09:45
S29183.22	SB-8 @ 2'	Soil	10/08/21 09:49
S29183.23	SB-8 @ 5'	Soil	10/08/21 10:01
S29183.24	SB-8 @ 12'	Soil	10/08/21 10:15
S29183.25	SB-9 @ 2'	Soil	10/08/21 10:25
S29183.26	SB-9 @ 5'	Soil	10/08/21 10:31
S29183.27	SB-9 @ 12'	Soil	10/08/21 10:37
S29183.28	SB-10 @ 2'	Soil	10/08/21 10:45
S29183.29	SB-10 @ 5'	Soil	10/08/21 10:51
S29183.30	SB-10 @ 12'	Soil	10/08/21 10:57
S29183.31	SB-11 @ 3'	Soil	10/08/21 11:10
S29183.32	SB-11 @ 5'	Soil	10/08/21 11:14
S29183.33	SB-11 @ 12'	Soil	10/08/21 11:17
S29183.34	SB-12 @ 2'	Soil	10/08/21 11:23
S29183.35	SB-12 @ 5'	Soil	10/08/21 11:31
S29183.36	SB-12 @ 12'	Soil	10/08/21 11:37
S29183.37	SB-13 @ 2'	Soil	10/08/21 11:51
S29183.38	SB-13 @ 4'	Soil	10/08/21 11:58
S29183.39	SB-13 @ 12'	Soil	10/08/21 12:10
S29183.40	SB-14 @ 2'	Soil	10/08/21 12:15
S29183.41	SB-14 @ 4'	Soil	10/08/21 12:28
S29183.42	SB-14 @ 12'	Soil	10/08/21 13:10
S29183.43	SB-15 @ 2'	Soil	10/08/21 13:20
S29183.44	SB-15 @ 5'	Soil	10/08/21 13:23
S29183.45	SB-15 @ 12'	Soil	10/08/21 13:27
S29183.46	SB-16 @ 2'	Soil	10/08/21 13:31
S29183.47	SB-16 @ 5'	Soil	10/08/21 13:36
S29183.48	SB-16 @ 12'	Soil	10/08/21 13:39
S29183.49	SB-17 @ 2'	Soil	10/08/21 13:40
S29183.50	SB-17 @ 4.5'	Soil	10/08/21 13:45
S29183.51	SB-17 @ 12'	Soil	10/08/21 13:51
S29183.52	SB-18 @ 2'	Soil	10/08/21 13:57
S29183.53	SB-18 @ 5'	Soil	10/08/21 14:01



Analytical Laboratory Report

Sample Summary (continued)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S29183.54	SB-18 @ 12'	Soil	10/08/21 14:03
S29183.55	SB-19 @ 3'	Soil	10/08/21 14:07
S29183.56	SB-19 @ 5'	Soil	10/08/21 14:11
S29183.57	SB-19 @ 12'	Soil	10/08/21 14:17
S29183.58	SB-20 @ 3.5'	Soil	10/08/21 14:28
S29183.59	SB-20 @ 5'	Soil	10/08/21 14:31
S29183.60	SB-20 @ 12'	Soil	10/08/21 14:37
S29183.61	SB-21 @ 3.5'	Soil	10/08/21 14:45
S29183.62	SB-21 @ 5'	Soil	10/08/21 14:49
S29183.63	SB-21 @ 12'	Soil	10/08/21 14:58
S29183.64	SB-22 @ 1.5'	Soil	10/08/21 15:11
S29183.65	SB-22 @ 4'	Soil	10/08/21 15:15
S29183.66	SB-22 @ 12'	Soil	10/08/21 15:19
S29183.67	SB-23 @ 0.5'	Soil	10/08/21 15:33
S29183.68	SB-23 @ 5'	Soil	10/08/21 15:37
S29183.69	SB-23 @ 12'	Soil	10/08/21 15:39
S29183.70	SB-24 @ 8"	Soil	10/08/21 15:45
S29183.71	SB-24 @ 5'	Soil	10/08/21 15:47
S29183.72	SB-24 @ 12'	Soil	10/08/21 15:49
S29183.73	SB-25 @ 12" (1')	Soil	10/08/21 15:51
S29183.74	SB-25 @ 4.5'	Soil	10/08/21 15:55
S29183.75	SB-25 @ 12'	Soil	10/08/21 15:59
S29183.76	SB-26 @ 12" (1')	Soil	10/08/21 16:05
S29183.77	SB-26 @ 5'	Soil	10/08/21 16:09
S29183.78	SB-26 @ 12'	Soil	10/08/21 16:11
S29183.79	SB-27 @ 2'	Soil	10/08/21 16:15
S29183.80	SB-27 @ 4.5'	Soil	10/08/21 16:21
S29183.81	SB-27 @ 12'	Soil	10/08/21 16:23
S29183.82	SB-28 @ 2'	Soil	10/08/21 16:35
S29183.83	SB-28 @ 4.5'	Soil	10/08/21 16:39
S29183.84	SB-28 @ 12'	Soil	10/08/21 16:46
S29183.85	Dup-1	Soil	10/08/21 00:01
S29183.86	Dup-2	Soil	10/08/21 00:01



Analytical Laboratory Report

Lab Sample ID: S29183.01

Sample Tag: SB-1 @ 1'

Collected Date/Time: 10/08/2021 08:05

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.497/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.10	0.20		mg/kg	269	7440-38-2	
Barium	47.3	1.0		mg/kg	269	7440-39-3	
Cadmium	0.27	0.20		mg/kg	269	7440-43-9	
Chromium	10.0	0.50		mg/kg	269	7440-47-3	
Copper	11.3	0.50		mg/kg	269	7440-50-8	
Lead	30.3	0.30		mg/kg	269	7439-92-1	
Selenium	Not detected	0.40		mg/kg	269	7782-49-2	
Silver	Not detected	0.20		mg/kg	269	7440-22-4	
Zinc	41.7	0.50		mg/kg	269	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 10:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	63	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:13, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.01 (continued)

Sample Tag: SB-1 @ 1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:13, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.3	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.3	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.3	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.3	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.3	109-99-9	
Chloroform	Not detected	70		ug/kg	65.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.3	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.3	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.3	56-23-5	
Benzene	Not detected	70		ug/kg	65.3	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.3	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.3	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.3	10061-01-5	
Toluene	Not detected	70		ug/kg	65.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.3	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.3	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.3	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.01 (continued)

Sample Tag: SB-1 @ 1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.3	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.3		
o-Xylene	Not detected	70		ug/kg	65.3	95-47-6	
Styrene	Not detected	70		ug/kg	65.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.3	98-82-8	
Bromoform	Not detected	100		ug/kg	65.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.3	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.3	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.3	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.3	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.3	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.02

Sample Tag: SB-1 @ 5'

Collected Date/Time: 10/08/2021 08:10

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.483/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.35	0.20		mg/kg	271	7440-38-2	
Barium	35.1	1.0		mg/kg	271	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	271	7440-43-9	
Chromium	9.69	0.50		mg/kg	271	7440-47-3	
Copper	11.5	0.50		mg/kg	271	7440-50-8	
Lead	29.9	0.30		mg/kg	271	7439-92-1	
Selenium	Not detected	0.40		mg/kg	271	7782-49-2	
Silver	Not detected	0.20		mg/kg	271	7440-22-4	
Zinc	39.5	0.50		mg/kg	271	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 10:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:13, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.02 (continued)

Sample Tag: SB-1 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:13, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	75.3	60-29-7	
Acetone	Not detected	2,000		ug/kg	75.3	67-64-1	
Methyl iodide	Not detected	200		ug/kg	75.3	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	75.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	75.3	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	75.3	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	75.3	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	75.3	75-71-8	
Chloromethane	Not detected	400		ug/kg	75.3	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	75.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	75.3	74-83-9	
Chloroethane	Not detected	400		ug/kg	75.3	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	75.3	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	75.3	75-35-4	
Methylene chloride	Not detected	200		ug/kg	75.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	75.3	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	75.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	75.3	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	75.3	109-99-9	
Chloroform	Not detected	80		ug/kg	75.3	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	75.3	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	75.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	75.3	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	75.3	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	75.3	56-23-5	
Benzene	Not detected	80		ug/kg	75.3	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	75.3	107-06-2	
Trichloroethene	Not detected	80		ug/kg	75.3	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	75.3	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	75.3	75-27-4	
Dibromomethane	Not detected	400		ug/kg	75.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	75.3	10061-01-5	
Toluene	Not detected	80		ug/kg	75.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	75.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	75.3	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	75.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	75.3	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	75.3	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	75.3	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.02 (continued)

Sample Tag: SB-1 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	80		ug/kg	75.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	75.3	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	75.3	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	75.3		
o-Xylene	Not detected	80		ug/kg	75.3	95-47-6	
Styrene	Not detected	80		ug/kg	75.3	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	75.3	98-82-8	
Bromoform	Not detected	200		ug/kg	75.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	75.3	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	75.3	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	75.3	103-65-1	
Bromobenzene	Not detected	200		ug/kg	75.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	75.3	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	75.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	75.3	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	75.3	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	75.3	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	75.3	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	75.3	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	75.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	75.3	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	75.3	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	75.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	75.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	500		ug/kg	75.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	500		ug/kg	75.3	87-61-6	
Naphthalene	Not detected	400		ug/kg	75.3	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	75.3	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.03

Sample Tag: SB-1 @ 12'

Collected Date/Time: 10/08/2021 08:12

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.04

Sample Tag: SB-2 @ 3'

Collected Date/Time: 10/08/2021 08:14

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.446/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.11	0.20		mg/kg	254	7440-38-2	
Barium	74.4	1.0		mg/kg	254	7440-39-3	
Cadmium	0.31	0.20		mg/kg	254	7440-43-9	
Chromium	6.35	0.50		mg/kg	254	7440-47-3	
Copper	8.51	0.50		mg/kg	254	7440-50-8	
Lead	342	0.30		mg/kg	254	7439-92-1	
Selenium	Not detected	0.40		mg/kg	254	7782-49-2	
Silver	Not detected	0.20		mg/kg	254	7440-22-4	
Zinc	93.1	0.50		mg/kg	254	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:19, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.433	0.050		mg/kg	81	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	300	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	600	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	300	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.04 (continued)

Sample Tag: SB-2 @ 3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:30, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	600	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	400	300		ug/kg	10	85-01-8	
Pyrene	600	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.2	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.2	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.2	109-99-9	
Chloroform	Not detected	60		ug/kg	61.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.2	56-23-5	
Benzene	Not detected	60		ug/kg	61.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.2	10061-01-5	
Toluene	Not detected	60		ug/kg	61.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.2	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.04 (continued)

Sample Tag: SB-2 @ 3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 15:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	20		ug/kg	61.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.2		
o-Xylene	Not detected	60		ug/kg	61.2	95-47-6	
Styrene	Not detected	60		ug/kg	61.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.2	98-82-8	
Bromoform	Not detected	100		ug/kg	61.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	61.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	61.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.2	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.05

Sample Tag: SB-2 @ 6'

Collected Date/Time: 10/08/2021 08:17

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.099/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.40	0.20		mg/kg	244	7440-38-2	
Barium	39.9	1.0		mg/kg	244	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	244	7440-43-9	
Chromium	9.71	0.50		mg/kg	244	7440-47-3	
Copper	8.87	0.50		mg/kg	244	7440-50-8	
Lead	8.38	0.30		mg/kg	244	7439-92-1	
Selenium	Not detected	0.40		mg/kg	244	7782-49-2	
Silver	Not detected	0.20		mg/kg	244	7440-22-4	
Zinc	36.2	0.50		mg/kg	244	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	56	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.05 (continued)

Sample Tag: SB-2 @ 6'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:30, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 16:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.6	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.6	109-99-9	
Chloroform	Not detected	60		ug/kg	60.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.6	56-23-5	
Benzene	Not detected	60		ug/kg	60.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.6	10061-01-5	
Toluene	Not detected	60		ug/kg	60.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.6	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.6	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.05 (continued)

Sample Tag: SB-2 @ 6'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 16:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	60.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.6		
o-Xylene	Not detected	60		ug/kg	60.6	95-47-6	
Styrene	Not detected	60		ug/kg	60.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.6	98-82-8	
Bromoform	Not detected	100		ug/kg	60.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.6	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.06

Sample Tag: SB-2 @ 12'

Collected Date/Time: 10/08/2021 08:20

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.07

Sample Tag: SB-3 @ 1'

Collected Date/Time: 10/08/2021 08:21

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.790/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:22, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4.51	0.20		mg/kg	276	7440-38-2	
Barium	79.3	1.0		mg/kg	276	7440-39-3	
Cadmium	0.94	0.20		mg/kg	276	7440-43-9	
Chromium	14.0	0.50		mg/kg	276	7440-47-3	
Copper	18.6	0.50		mg/kg	276	7440-50-8	
Lead	102	0.30		mg/kg	276	7439-92-1	
Selenium	Not detected	0.40		mg/kg	276	7782-49-2	
Silver	Not detected	0.20		mg/kg	276	7440-22-4	
Zinc	134	0.50		mg/kg	276	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.069	0.050		mg/kg	1	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	600	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,000	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	700	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.07 (continued)

Sample Tag: SB-3 @ 1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:30, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,500	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	1,000	300		ug/kg	10	85-01-8	
Pyrene	1,400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 16:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	71.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71.8	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	71.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	71.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	71.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71.8	109-99-9	
Chloroform	Not detected	70		ug/kg	71.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71.8	56-23-5	
Benzene	Not detected	70		ug/kg	71.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	71.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-01-5	
Toluene	Not detected	70		ug/kg	71.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71.8	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.07 (continued)

Sample Tag: SB-3 @ 1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 16:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	71.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	71.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	71.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	71.8		
o-Xylene	Not detected	70		ug/kg	71.8	95-47-6	
Styrene	Not detected	70		ug/kg	71.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	71.8	98-82-8	
Bromoform	Not detected	100		ug/kg	71.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	71.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	71.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	71.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	71.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	71.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	71.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	71.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	71.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	71.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.08

Sample Tag: SB-3 @ 5'

Collected Date/Time: 10/08/2021 08:24

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.136/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:24, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.28	0.20		mg/kg	237	7440-38-2	
Barium	67.5	1.0		mg/kg	237	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	237	7440-43-9	
Chromium	13.0	0.50		mg/kg	237	7440-47-3	
Copper	14.5	0.50		mg/kg	237	7440-50-8	
Lead	10.5	0.30		mg/kg	237	7439-92-1	
Selenium	Not detected	0.40		mg/kg	237	7782-49-2	
Silver	Not detected	0.20		mg/kg	237	7440-22-4	
Zinc	36.9	0.50		mg/kg	237	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:19, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	69	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:47, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.08 (continued)

Sample Tag: SB-3 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 00:47, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	73.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	73.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	73.2	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	73.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	73.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	73.2	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	73.2	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	73.2	75-71-8	
Chloromethane	Not detected	400		ug/kg	73.2	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	73.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	73.2	74-83-9	
Chloroethane	Not detected	400		ug/kg	73.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	73.2	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	73.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	73.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	73.2	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	73.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	73.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	73.2	109-99-9	
Chloroform	Not detected	70		ug/kg	73.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	73.2	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	73.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	73.2	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	73.2	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	73.2	56-23-5	
Benzene	Not detected	70		ug/kg	73.2	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	73.2	107-06-2	
Trichloroethene	Not detected	70		ug/kg	73.2	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	73.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	73.2	75-27-4	
Dibromomethane	Not detected	400		ug/kg	73.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	73.2	10061-01-5	
Toluene	Not detected	70		ug/kg	73.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	73.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	73.2	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	73.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	73.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	73.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	73.2	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.08 (continued)

Sample Tag: SB-3 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	73.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	73.2	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	73.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	73.2		
o-Xylene	Not detected	70		ug/kg	73.2	95-47-6	
Styrene	Not detected	70		ug/kg	73.2	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	73.2	98-82-8	
Bromoform	Not detected	100		ug/kg	73.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	73.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	73.2	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	73.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	73.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	73.2	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	73.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	73.2	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	73.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	73.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	73.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	73.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	73.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	73.2	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	73.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	73.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	73.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	480		ug/kg	73.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	480		ug/kg	73.2	87-61-6	
Naphthalene	Not detected	400		ug/kg	73.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	73.2	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.09

Sample Tag: SB-3 @ 12'

Collected Date/Time: 10/08/2021 08:27

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.10

Sample Tag: SB-4 @ 1'

Collected Date/Time: 10/08/2021 08:28

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.824/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:26, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5.30	0.20		mg/kg	239	7440-38-2	
Barium	31.7	1.0		mg/kg	239	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	239	7440-43-9	
Chromium	7.03	0.50		mg/kg	239	7440-47-3	
Copper	10.2	0.50		mg/kg	239	7440-50-8	
Lead	7.61	0.30		mg/kg	239	7439-92-1	
Selenium	Not detected	0.40		mg/kg	239	7782-49-2	
Silver	Not detected	0.20		mg/kg	239	7440-22-4	
Zinc	21.6	0.50		mg/kg	239	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:21, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	61	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:05, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.10 (continued)

Sample Tag: SB-4 @ 1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:05, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.9	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.9	109-99-9	
Chloroform	Not detected	60		ug/kg	60.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.9	56-23-5	
Benzene	Not detected	60		ug/kg	60.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-01-5	
Toluene	Not detected	60		ug/kg	60.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.9	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.10 (continued)

Sample Tag: SB-4 @ 1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	60.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.9		
o-Xylene	Not detected	60		ug/kg	60.9	95-47-6	
Styrene	Not detected	60		ug/kg	60.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.9	98-82-8	
Bromoform	Not detected	100		ug/kg	60.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.11

Sample Tag: SB-4 @ 5'

Collected Date/Time: 10/08/2021 08:31

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.847/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:28, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.20	0.20		mg/kg	250	7440-38-2	
Barium	49.0	1.0		mg/kg	250	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	250	7440-43-9	
Chromium	10.7	0.50		mg/kg	250	7440-47-3	
Copper	7.06	0.50		mg/kg	250	7440-50-8	
Lead	7.77	0.30		mg/kg	250	7439-92-1	
Selenium	Not detected	0.40		mg/kg	250	7782-49-2	
Silver	Not detected	0.20		mg/kg	250	7440-22-4	
Zinc	35.7	0.50		mg/kg	250	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:23, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:22, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.11 (continued)

Sample Tag: SB-4 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:22, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:49, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.8	107-13-1	
2-Butanone (MEK)	Not detected	990		ug/kg	65.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.8	109-99-9	
Chloroform	Not detected	70		ug/kg	65.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.8	56-23-5	
Benzene	Not detected	70		ug/kg	65.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.8	10061-01-5	
Toluene	Not detected	70		ug/kg	65.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.8	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.11 (continued)

Sample Tag: SB-4 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 17:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.8		
o-Xylene	Not detected	70		ug/kg	65.8	95-47-6	
Styrene	Not detected	70		ug/kg	65.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.8	98-82-8	
Bromoform	Not detected	100		ug/kg	65.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.12

Sample Tag: SB-4 @ 12'

Collected Date/Time: 10/08/2021 08:37

Matrix: Soil

COC Reference: 144699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.13

Sample Tag: SB-5 @ 2'

Collected Date/Time: 10/08/2021 08:45

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.611/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:30, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.78	0.20		mg/kg	284	7440-38-2	
Barium	116	1.0		mg/kg	284	7440-39-3	
Cadmium	1.60	0.20		mg/kg	284	7440-43-9	
Chromium	23.2	0.50		mg/kg	284	7440-47-3	
Copper	26.4	0.50		mg/kg	284	7440-50-8	
Lead	578	0.30		mg/kg	284	7439-92-1	
Selenium	Not detected	0.40		mg/kg	284	7782-49-2	
Silver	Not detected	0.20		mg/kg	284	7440-22-4	
Zinc	263	0.50		mg/kg	284	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:25, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.347	0.050		mg/kg	67	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:47, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	700	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	600	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	800	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.13 (continued)

Sample Tag: SB-5 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 02:47, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,600	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	1,500	300		ug/kg	10	85-01-8	
Pyrene	1,500	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 18:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.6	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.6	109-99-9	
Chloroform	Not detected	60		ug/kg	61.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.6	56-23-5	
Benzene	Not detected	60		ug/kg	61.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-01-5	
Toluene	Not detected	60		ug/kg	61.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.6	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.13 (continued)

Sample Tag: SB-5 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 18:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	20		ug/kg	61.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.6		
o-Xylene	Not detected	60		ug/kg	61.6	95-47-6	
Styrene	Not detected	60		ug/kg	61.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.6	98-82-8	
Bromoform	Not detected	100		ug/kg	61.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.14

Sample Tag: SB-5 @ 4'

Collected Date/Time: 10/08/2021 09:01

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.674/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 14:32, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.70	0.20		mg/kg	273	7440-38-2	
Barium	77.0	1.0		mg/kg	273	7440-39-3	
Cadmium	0.72	0.20		mg/kg	273	7440-43-9	
Chromium	8.71	0.50		mg/kg	273	7440-47-3	
Copper	6.10	0.50		mg/kg	273	7440-50-8	
Lead	20.5	0.30		mg/kg	273	7439-92-1	
Selenium	Not detected	0.40		mg/kg	273	7782-49-2	
Silver	Not detected	0.20		mg/kg	273	7440-22-4	
Zinc	52.2	0.50		mg/kg	273	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:28, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:39, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.14 (continued)

Sample Tag: SB-5 @ 4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:39, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 18:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60	60-29-7	
Acetone	Not detected	1,000		ug/kg	60	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	60	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60	75-71-8	
Chloromethane	Not detected	300		ug/kg	60	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60	75-01-4	
Bromomethane	Not detected	200		ug/kg	60	74-83-9	
Chloroethane	Not detected	300		ug/kg	60	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60	109-99-9	
Chloroform	Not detected	60		ug/kg	60	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60	56-23-5	
Benzene	Not detected	60		ug/kg	60	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60	10061-01-5	
Toluene	Not detected	60		ug/kg	60	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.14 (continued)

Sample Tag: SB-5 @ 4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/13/21 18:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	60	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60		
o-Xylene	Not detected	60		ug/kg	60	95-47-6	
Styrene	Not detected	60		ug/kg	60	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60	98-82-8	
Bromoform	Not detected	100		ug/kg	60	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60	87-61-6	
Naphthalene	Not detected	300		ug/kg	60	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.15

Sample Tag: SB-5 @ 12'

Collected Date/Time: 10/08/2021 09:10

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.16

Sample Tag: SB-6 @ 1'

Collected Date/Time: 10/08/2021 09:15

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	11.167/11	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:08, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4.18	0.20		mg/kg	252	7440-38-2	
Barium	232	1.0		mg/kg	252	7440-39-3	
Cadmium	1.62	0.20		mg/kg	252	7440-43-9	
Chromium	24.1	0.50		mg/kg	252	7440-47-3	
Copper	25.2	0.50		mg/kg	252	7440-50-8	
Lead	563	0.30		mg/kg	252	7439-92-1	
Selenium	Not detected	0.40		mg/kg	252	7782-49-2	
Silver	Not detected	0.20		mg/kg	252	7440-22-4	
Zinc	224	0.50		mg/kg	252	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.302	0.050		mg/kg	73	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:49, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	400	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	300	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	700	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	700	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	500	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.16 (continued)

Sample Tag: SB-6 @ 1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:49, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	800	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	500	300		ug/kg	10	85-01-8	
Pyrene	700	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 12:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.8	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	66.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.8	109-99-9	
Chloroform	Not detected	70		ug/kg	66.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.8	56-23-5	
Benzene	Not detected	70		ug/kg	66.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	66.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.8	10061-01-5	
Toluene	100	70		ug/kg	66.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.8	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.16 (continued)

Sample Tag: SB-6 @ 1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 12:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	66.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	66.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.8		
o-Xylene	Not detected	70		ug/kg	66.8	95-47-6	
Styrene	Not detected	70		ug/kg	66.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.8	98-82-8	
Bromoform	Not detected	100		ug/kg	66.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	66.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	66.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.17

Sample Tag: SB-6 @ 5'

Collected Date/Time: 10/08/2021 09:20

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.783/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.51	0.20		mg/kg	246	7440-38-2	
Barium	50.7	1.0		mg/kg	246	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	246	7440-43-9	
Chromium	10.6	0.50		mg/kg	246	7440-47-3	
Copper	7.40	0.50		mg/kg	246	7440-50-8	
Lead	6.37	0.30		mg/kg	246	7439-92-1	
Selenium	Not detected	0.40		mg/kg	246	7782-49-2	
Silver	Not detected	0.20		mg/kg	246	7440-22-4	
Zinc	27.4	0.50		mg/kg	246	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:35, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	65	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:37, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.17 (continued)

Sample Tag: SB-6 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:37, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 12:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.9	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.9	109-99-9	
Chloroform	Not detected	60		ug/kg	64.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.9	56-23-5	
Benzene	Not detected	60		ug/kg	64.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.9	10061-01-5	
Toluene	Not detected	60		ug/kg	64.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.9	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.9	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.17 (continued)

Sample Tag: SB-6 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 12:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	64.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.9		
o-Xylene	Not detected	60		ug/kg	64.9	95-47-6	
Styrene	Not detected	60		ug/kg	64.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.9	98-82-8	
Bromoform	Not detected	100		ug/kg	64.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.18

Sample Tag: SB-6 @ 12'

Collected Date/Time: 10/08/2021 09:27

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.19

Sample Tag: SB-7 @ 1'

Collected Date/Time: 10/08/2021 09:35

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.747/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.31	0.20		mg/kg	244	7440-38-2	
Barium	59.5	1.0		mg/kg	244	7440-39-3	
Cadmium	0.31	0.20		mg/kg	244	7440-43-9	
Chromium	8.85	0.50		mg/kg	244	7440-47-3	
Copper	12.2	0.50		mg/kg	244	7440-50-8	
Lead	71.3	0.30		mg/kg	244	7439-92-1	
Selenium	Not detected	0.40		mg/kg	244	7782-49-2	
Silver	Not detected	0.20		mg/kg	244	7440-22-4	
Zinc	69.1	0.50		mg/kg	244	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.070	0.050		mg/kg	61	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:04, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	300	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	600	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	400	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.19 (continued)

Sample Tag: SB-7 @ 1'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:04, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	700	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	400	300		ug/kg	10	85-01-8	
Pyrene	600	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.5	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.5	109-99-9	
Chloroform	Not detected	60		ug/kg	58.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.5	56-23-5	
Benzene	Not detected	60		ug/kg	58.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-01-5	
Toluene	Not detected	60		ug/kg	58.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.5	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.19 (continued)

Sample Tag: SB-7 @ 1'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	20		ug/kg	58.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.5		
o-Xylene	Not detected	60		ug/kg	58.5	95-47-6	
Styrene	Not detected	60		ug/kg	58.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.5	98-82-8	
Bromoform	Not detected	100		ug/kg	58.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.5	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.20

Sample Tag: SB-7 @ 6'

Collected Date/Time: 10/08/2021 09:41

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.452/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.58	0.20		mg/kg	253	7440-38-2	
Barium	52.2	1.0		mg/kg	253	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	253	7440-43-9	
Chromium	11.1	0.50		mg/kg	253	7440-47-3	
Copper	8.33	0.50		mg/kg	253	7440-50-8	
Lead	13.2	0.30		mg/kg	253	7439-92-1	
Selenium	Not detected	0.40		mg/kg	253	7782-49-2	
Silver	Not detected	0.20		mg/kg	253	7440-22-4	
Zinc	32.9	0.50		mg/kg	253	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	70	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.20 (continued)

Sample Tag: SB-7 @ 6'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:59, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.8	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.8	109-99-9	
Chloroform	Not detected	60		ug/kg	63.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.8	56-23-5	
Benzene	Not detected	60		ug/kg	63.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-01-5	
Toluene	Not detected	60		ug/kg	63.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.8	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.20 (continued)

Sample Tag: SB-7 @ 6'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	63.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.8		
o-Xylene	Not detected	60		ug/kg	63.8	95-47-6	
Styrene	Not detected	60		ug/kg	63.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.8	98-82-8	
Bromoform	Not detected	100		ug/kg	63.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.21

Sample Tag: SB-7 @ 12'

Collected Date/Time: 10/08/2021 09:45

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.22

Sample Tag: SB-8 @ 2'

Collected Date/Time: 10/08/2021 09:49

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	9.679/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.14	0.20		mg/kg	278	7440-38-2	
Barium	66.8	1.0		mg/kg	278	7440-39-3	
Cadmium	0.37	0.20		mg/kg	278	7440-43-9	
Chromium	9.45	0.50		mg/kg	278	7440-47-3	
Copper	13.4	0.50		mg/kg	278	7440-50-8	
Lead	49.8	0.30		mg/kg	278	7439-92-1	
Selenium	Not detected	0.40		mg/kg	278	7782-49-2	
Silver	Not detected	0.20		mg/kg	278	7440-22-4	
Zinc	120	0.50		mg/kg	278	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.094	0.050		mg/kg	65	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	400	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.22 (continued)

Sample Tag: SB-8 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:27, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:50, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.2	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	64.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.2	109-99-9	
Chloroform	Not detected	60		ug/kg	64.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.2	56-23-5	
Benzene	Not detected	60		ug/kg	64.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-01-5	
Toluene	Not detected	60		ug/kg	64.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.2	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.22 (continued)

Sample Tag: SB-8 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 13:50, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	64.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.2		
o-Xylene	Not detected	60		ug/kg	64.2	95-47-6	
Styrene	Not detected	60		ug/kg	64.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.2	98-82-8	
Bromoform	Not detected	100		ug/kg	64.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	64.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	64.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.2	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.23

Sample Tag: SB-8 @ 5'

Collected Date/Time: 10/08/2021 10:01

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.051/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.36	0.20		mg/kg	239	7440-38-2	
Barium	62.8	1.0		mg/kg	239	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	239	7440-43-9	
Chromium	12.0	0.50		mg/kg	239	7440-47-3	
Copper	8.75	0.50		mg/kg	239	7440-50-8	
Lead	18.6	0.30		mg/kg	239	7439-92-1	
Selenium	Not detected	0.40		mg/kg	239	7782-49-2	
Silver	Not detected	0.20		mg/kg	239	7440-22-4	
Zinc	31.2	0.50		mg/kg	239	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:42, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	62	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:21, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.23 (continued)

Sample Tag: SB-8 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:21, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.7	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.7	109-99-9	
Chloroform	Not detected	60		ug/kg	64.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.7	56-23-5	
Benzene	Not detected	60		ug/kg	64.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.7	10061-01-5	
Toluene	Not detected	60		ug/kg	64.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.7	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.23 (continued)

Sample Tag: SB-8 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	64.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.7		
o-Xylene	Not detected	60		ug/kg	64.7	95-47-6	
Styrene	Not detected	60		ug/kg	64.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.7	98-82-8	
Bromoform	Not detected	100		ug/kg	64.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.7	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.24

Sample Tag: SB-8 @ 12'

Collected Date/Time: 10/08/2021 10:15

Matrix: Soil

COC Reference: 140900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.25

Sample Tag: SB-9 @ 2'

Collected Date/Time: 10/08/2021 10:25

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	8.462/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	6.57	0.20		mg/kg	286	7440-38-2	
Barium	195	1.0		mg/kg	286	7440-39-3	
Cadmium	1.30	0.20		mg/kg	286	7440-43-9	
Chromium	13.4	0.50		mg/kg	286	7440-47-3	
Copper	44.3	0.50		mg/kg	286	7440-50-8	
Lead	451	0.30		mg/kg	286	7439-92-1	
Selenium	Not detected	0.40		mg/kg	286	7782-49-2	
Silver	Not detected	0.20		mg/kg	286	7440-22-4	
Zinc	313	0.50		mg/kg	286	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:44, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.253	0.050		mg/kg	62	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:47, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	500	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,000	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	600	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.25 (continued)

Sample Tag: SB-9 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:47, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,000	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	500	300		ug/kg	10	85-01-8	
Pyrene	1,000	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	76.8	60-29-7	
Acetone	Not detected	2,000		ug/kg	76.8	67-64-1	
Methyl iodide	Not detected	200		ug/kg	76.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	76.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	76.8	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	76.8	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	76.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	76.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	76.8	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	76.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	76.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	76.8	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	76.8	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	76.8	75-35-4	
Methylene chloride	Not detected	200		ug/kg	76.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	76.8	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	76.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	76.8	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	76.8	109-99-9	
Chloroform	Not detected	80		ug/kg	76.8	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	76.8	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	76.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	76.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	76.8	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	76.8	56-23-5	
Benzene	Not detected	80		ug/kg	76.8	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	76.8	107-06-2	
Trichloroethene	Not detected	80		ug/kg	76.8	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	76.8	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	76.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	76.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	76.8	10061-01-5	
Toluene	Not detected	80		ug/kg	76.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	76.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	76.8	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	76.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	76.8	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	76.8	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.25 (continued)

Sample Tag: SB-9 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	76.8	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	76.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	76.8	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	76.8	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	76.8		
o-Xylene	Not detected	80		ug/kg	76.8	95-47-6	
Styrene	Not detected	80		ug/kg	76.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	76.8	98-82-8	
Bromoform	Not detected	200		ug/kg	76.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	76.8	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	76.8	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	76.8	103-65-1	
Bromobenzene	Not detected	200		ug/kg	76.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	76.8	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	76.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	76.8	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	76.8	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	76.8	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	76.8	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	76.8	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	76.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	76.8	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	76.8	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	76.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	76.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	510		ug/kg	76.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	510		ug/kg	76.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	76.8	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	76.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.26

Sample Tag: SB-9 @ 5'

Collected Date/Time: 10/08/2021 10:31

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.576/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:22, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.64	0.20		mg/kg	250	7440-38-2	
Barium	53.4	1.0		mg/kg	250	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	250	7440-43-9	
Chromium	12.5	0.50		mg/kg	250	7440-47-3	
Copper	9.04	0.50		mg/kg	250	7440-50-8	
Lead	9.66	0.30		mg/kg	250	7439-92-1	
Selenium	Not detected	0.40		mg/kg	250	7782-49-2	
Silver	Not detected	0.20		mg/kg	250	7440-22-4	
Zinc	39.2	0.50		mg/kg	250	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:46, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	61	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:43, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.26 (continued)

Sample Tag: SB-9 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:43, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:58, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.4	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.4	109-99-9	
Chloroform	Not detected	60		ug/kg	64.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.4	56-23-5	
Benzene	Not detected	60		ug/kg	64.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-01-5	
Toluene	Not detected	60		ug/kg	64.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.4	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.26 (continued)

Sample Tag: SB-9 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 14:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	64.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.4		
o-Xylene	Not detected	60		ug/kg	64.4	95-47-6	
Styrene	Not detected	60		ug/kg	64.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.4	98-82-8	
Bromoform	Not detected	100		ug/kg	64.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.4	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.27

Sample Tag: SB-9 @ 12'

Collected Date/Time: 10/08/2021 10:37

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.28

Sample Tag: SB-10 @ 2'

Collected Date/Time: 10/08/2021 10:45

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	10.270/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:24, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.38	0.20		mg/kg	298	7440-38-2	
Barium	67.6	1.0		mg/kg	298	7440-39-3	
Cadmium	0.34	0.20		mg/kg	298	7440-43-9	
Chromium	9.23	0.50		mg/kg	298	7440-47-3	
Copper	15.1	0.50		mg/kg	298	7440-50-8	
Lead	50.5	0.30		mg/kg	298	7439-92-1	
Selenium	0.73	0.40		mg/kg	298	7782-49-2	
Silver	Not detected	0.20		mg/kg	298	7440-22-4	
Zinc	59.0	0.50		mg/kg	298	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:48, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.061	0.050		mg/kg	75	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:05, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.28 (continued)

Sample Tag: SB-10 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:05, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 15:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	71.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71.8	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	71.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	71.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	71.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71.8	109-99-9	
Chloroform	Not detected	70		ug/kg	71.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71.8	56-23-5	
Benzene	Not detected	70		ug/kg	71.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	71.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-01-5	
Toluene	Not detected	70		ug/kg	71.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	71.8	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.28 (continued)

Sample Tag: SB-10 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 15:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	71.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	71.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	71.8		
o-Xylene	Not detected	70		ug/kg	71.8	95-47-6	
Styrene	Not detected	70		ug/kg	71.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	71.8	98-82-8	
Bromoform	Not detected	100		ug/kg	71.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	71.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	71.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	71.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	71.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	71.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	71.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	71.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	71.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	71.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.29

Sample Tag: SB-10 @ 5'

Collected Date/Time: 10/08/2021 10:51

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/14/21 12:20	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 09:00	DMP	
Sample wt. (g) / Methanol (ml)*	11.402/11	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/14/21 13:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/14/21 15:26, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.35	0.20		mg/kg	274	7440-38-2	
Barium	55.7	1.0		mg/kg	274	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	274	7440-43-9	
Chromium	12.5	0.50		mg/kg	274	7440-47-3	
Copper	8.33	0.50		mg/kg	274	7440-50-8	
Lead	6.85	0.30		mg/kg	274	7439-92-1	
Selenium	Not detected	0.40		mg/kg	274	7782-49-2	
Silver	Not detected	0.20		mg/kg	274	7440-22-4	
Zinc	35.9	0.50		mg/kg	274	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 11:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	73	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:12, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	5,800	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	7,700	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	7,800	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	5,500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	9,800	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	10,900	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	1,500	300		ug/kg	10	191-24-2	
Chrysene	7,400	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.29 (continued)

Sample Tag: SB-10 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:12, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	19,300	300		ug/kg	10	206-44-0	
Fluorene	4,000	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	1,700	300		ug/kg	10	193-39-5	
Naphthalene	3,100	300		ug/kg	10	91-20-3	
Phenanthrene	24,800	300		ug/kg	10	85-01-8	
Pyrene	15,700	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	2,000	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	1,500	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 15:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.9	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	66.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.9	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.9	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.9	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.9	109-99-9	
Chloroform	Not detected	70		ug/kg	66.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.9	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.9	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.9	56-23-5	
Benzene	Not detected	70		ug/kg	66.9	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.9	107-06-2	
Trichloroethene	Not detected	70		ug/kg	66.9	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.9	10061-01-5	
Toluene	Not detected	70		ug/kg	66.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.9	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.9	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.29 (continued)

Sample Tag: SB-10 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 15:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	66.9	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	66.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.9	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.9		
o-Xylene	Not detected	70		ug/kg	66.9	95-47-6	
Styrene	Not detected	70		ug/kg	66.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.9	98-82-8	
Bromoform	Not detected	100		ug/kg	66.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.9	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.9	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.9	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.9	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	66.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	66.9	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.30

Sample Tag: SB-10 @12'

Collected Date/Time: 10/08/2021 10:57

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.31

Sample Tag: SB-11 @ 3'

Collected Date/Time: 10/08/2021 11:10

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.202/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 13:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.80	0.20		mg/kg	252	7440-38-2	
Barium	42.3	1.0		mg/kg	252	7440-39-3	
Cadmium	0.29	0.20		mg/kg	252	7440-43-9	
Chromium	6.77	0.50		mg/kg	252	7440-47-3	
Copper	9.43	0.50		mg/kg	252	7440-50-8	
Lead	51.6	0.30		mg/kg	252	7439-92-1	
Selenium	Not detected	0.40		mg/kg	252	7782-49-2	
Silver	Not detected	0.20		mg/kg	252	7440-22-4	
Zinc	50.7	0.50		mg/kg	252	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 13:21, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.056	0.050		mg/kg	67	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:22, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	300	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	600	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.31 (continued)

Sample Tag: SB-11 @ 3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:22, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	300	300		ug/kg	10	85-01-8	
Pyrene	500	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:06, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.2	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.2	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.2	109-99-9	
Chloroform	Not detected	60		ug/kg	61.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.2	56-23-5	
Benzene	Not detected	60		ug/kg	61.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.2	10061-01-5	
Toluene	Not detected	60		ug/kg	61.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.2	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.2	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.31 (continued)

Sample Tag: SB-11 @ 3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	61.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.2		
o-Xylene	Not detected	60		ug/kg	61.2	95-47-6	
Styrene	Not detected	60		ug/kg	61.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.2	98-82-8	
Bromoform	Not detected	100		ug/kg	61.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	61.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	61.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.2	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.32

Sample Tag: SB-11 @ 5'

Collected Date/Time: 10/08/2021 11:14

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.818/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 13:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.83	0.20		mg/kg	251	7440-38-2	
Barium	50.0	1.0		mg/kg	251	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	251	7440-43-9	
Chromium	12.7	0.50		mg/kg	251	7440-47-3	
Copper	10.5	0.50		mg/kg	251	7440-50-8	
Lead	15.4	0.30		mg/kg	251	7439-92-1	
Selenium	Not detected	0.40		mg/kg	251	7782-49-2	
Silver	Not detected	0.20		mg/kg	251	7440-22-4	
Zinc	44.0	0.50		mg/kg	251	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 13:27, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.083	0.050		mg/kg	70	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:33, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	300	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	400	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.32 (continued)

Sample Tag: SB-11 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:33, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	68.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	68.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	68.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	68.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	68.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	68.7	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	68.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	68.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	68.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	68.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	68.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	68.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	68.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	68.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	68.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	68.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	68.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	68.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	68.7	109-99-9	
Chloroform	Not detected	70		ug/kg	68.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	68.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	68.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	68.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	68.7	56-23-5	
Benzene	Not detected	70		ug/kg	68.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	68.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	68.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	68.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	68.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	68.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	68.7	10061-01-5	
Toluene	Not detected	70		ug/kg	68.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	68.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	68.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	68.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	68.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	68.7	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.32 (continued)

Sample Tag: SB-11 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	68.7	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	68.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	68.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	68.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	68.7		
o-Xylene	Not detected	70		ug/kg	68.7	95-47-6	
Styrene	Not detected	70		ug/kg	68.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	68.7	98-82-8	
Bromoform	Not detected	100		ug/kg	68.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	68.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	68.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	68.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	68.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	68.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	68.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	68.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	68.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	68.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	68.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	68.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	68.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	68.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	68.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	68.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	68.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	68.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	68.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	68.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	68.7	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.33

Sample Tag: SB-11 @ 12'

Collected Date/Time: 10/08/2021 11:17

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.34

Sample Tag: SB-12 @ 2'

Collected Date/Time: 10/08/2021 11:23

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.416/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 13:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.80	0.20		mg/kg	250	7440-38-2	
Barium	73.6	1.0		mg/kg	250	7440-39-3	
Cadmium	0.63	0.20		mg/kg	250	7440-43-9	
Chromium	7.24	0.50		mg/kg	250	7440-47-3	
Copper	15.0	0.50		mg/kg	250	7440-50-8	
Lead	171	0.30		mg/kg	250	7439-92-1	
Selenium	Not detected	0.40		mg/kg	250	7782-49-2	
Silver	Not detected	0.20		mg/kg	250	7440-22-4	
Zinc	124	0.50		mg/kg	250	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 13:29, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.510	0.050		mg/kg	67	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:08, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	600	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	1,600	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	1,400	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	2,500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	2,800	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	500	300		ug/kg	10	191-24-2	
Chrysene	1,700	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.34 (continued)

Sample Tag: SB-12 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:08, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	3,600	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	500	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	2,800	300		ug/kg	10	85-01-8	
Pyrene	3,300	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.2	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.2	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.2	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.2	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.2	109-99-9	
Chloroform	Not detected	70		ug/kg	67.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.2	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.2	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.2	56-23-5	
Benzene	Not detected	70		ug/kg	67.2	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.2	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.2	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.2	10061-01-5	
Toluene	Not detected	70		ug/kg	67.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.2	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.2	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.34 (continued)

Sample Tag: SB-12 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	67.2	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.2	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.2		
o-Xylene	Not detected	70		ug/kg	67.2	95-47-6	
Styrene	Not detected	70		ug/kg	67.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.2	98-82-8	
Bromoform	Not detected	100		ug/kg	67.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.2	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.2	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.2	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.2	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	67.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	67.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.2	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.35

Sample Tag: SB-12 @ 5'

Collected Date/Time: 10/08/2021 11:31

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.548/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 13:57, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.51	0.20		mg/kg	270	7440-38-2	
Barium	43.5	1.0		mg/kg	270	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	270	7440-43-9	
Chromium	10.5	0.50		mg/kg	270	7440-47-3	
Copper	11.1	0.50		mg/kg	270	7440-50-8	
Lead	7.24	0.30		mg/kg	270	7439-92-1	
Selenium	Not detected	0.40		mg/kg	270	7782-49-2	
Silver	Not detected	0.20		mg/kg	270	7440-22-4	
Zinc	30.5	0.50		mg/kg	270	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 13:32, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	61	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:50, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.35 (continued)

Sample Tag: SB-12 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 14:50, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.3	107-13-1	
2-Butanone (MEK)	Not detected	990		ug/kg	66.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.3	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.3	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.3	109-99-9	
Chloroform	Not detected	70		ug/kg	66.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.3	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.3	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.3	56-23-5	
Benzene	Not detected	70		ug/kg	66.3	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.3	107-06-2	
Trichloroethene	Not detected	70		ug/kg	66.3	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-01-5	
Toluene	Not detected	70		ug/kg	66.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.3	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.3	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	66.3	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.35 (continued)

Sample Tag: SB-12 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	66.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.3	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.3		
o-Xylene	Not detected	70		ug/kg	66.3	95-47-6	
Styrene	Not detected	70		ug/kg	66.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.3	98-82-8	
Bromoform	Not detected	100		ug/kg	66.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.3	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.3	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.3	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.3	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	66.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	66.3	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.36

Sample Tag: SB-12 @ 12'

Collected Date/Time: 10/08/2021 11:37

Matrix: Soil

COC Reference: 140901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.37

Sample Tag: SB-13 @ 2'

Collected Date/Time: 10/08/2021 11:51

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.338/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 13:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	6.50	0.20		mg/kg	264	7440-38-2	
Barium	91.2	1.0		mg/kg	264	7440-39-3	
Cadmium	0.53	0.20		mg/kg	264	7440-43-9	
Chromium	12.0	0.50		mg/kg	264	7440-47-3	
Copper	23.9	0.50		mg/kg	264	7440-50-8	
Lead	243	0.30		mg/kg	264	7439-92-1	
Selenium	Not detected	0.40		mg/kg	264	7782-49-2	
Silver	Not detected	0.20		mg/kg	264	7440-22-4	
Zinc	130	0.50		mg/kg	264	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:25, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.439	0.050		mg/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:39, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	900	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	1,800	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	3,300	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	2,500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	4,600	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	5,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	700	300		ug/kg	10	191-24-2	
Chrysene	3,400	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.37 (continued)

Sample Tag: SB-13 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:39, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	7,200	300		ug/kg	10	206-44-0	
Fluorene	700	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	900	300		ug/kg	10	193-39-5	
Naphthalene	1,300	300		ug/kg	10	91-20-3	
Phenanthrene	7,200	300		ug/kg	10	85-01-8	
Pyrene	6,500	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	500	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	400	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	71.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71.4	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71.4	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71.4	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71.4	75-71-8	
Chloromethane	Not detected	400		ug/kg	71.4	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	71.4	74-83-9	
Chloroethane	Not detected	400		ug/kg	71.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71.4	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71.4	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71.4	109-99-9	
Chloroform	Not detected	70		ug/kg	71.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71.4	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71.4	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71.4	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71.4	56-23-5	
Benzene	Not detected	70		ug/kg	71.4	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71.4	107-06-2	
Trichloroethene	Not detected	70		ug/kg	71.4	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71.4	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71.4	10061-01-5	
Toluene	Not detected	70		ug/kg	71.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71.4	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71.4	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.37 (continued)

Sample Tag: SB-13 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	71.4	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	71.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71.4	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	71.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	71.4		
o-Xylene	Not detected	70		ug/kg	71.4	95-47-6	
Styrene	Not detected	70		ug/kg	71.4	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	71.4	98-82-8	
Bromoform	Not detected	100		ug/kg	71.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71.4	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	71.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	71.4	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	71.4	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	71.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	71.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	71.4	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	71.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71.4	87-61-6	
Naphthalene	Not detected	400		ug/kg	71.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	71.4	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.38

Sample Tag: SB-13 @ 4'

Collected Date/Time: 10/08/2021 11:58

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.025/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:01, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.72	0.20		mg/kg	278	7440-38-2	
Barium	47.1	1.0		mg/kg	278	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	278	7440-43-9	
Chromium	14.1	0.50		mg/kg	278	7440-47-3	
Copper	8.86	0.50		mg/kg	278	7440-50-8	
Lead	4.79	0.30		mg/kg	278	7439-92-1	
Selenium	Not detected	0.40		mg/kg	278	7782-49-2	
Silver	Not detected	0.20		mg/kg	278	7440-22-4	
Zinc	32.9	0.50		mg/kg	278	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:28, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	65	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:07, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.38 (continued)

Sample Tag: SB-13 @ 4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:07, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.1	107-13-1	
2-Butanone (MEK)	Not detected	990		ug/kg	66.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.1	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.1	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.1	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.1	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.1	109-99-9	
Chloroform	Not detected	70		ug/kg	66.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.1	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.1	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.1	56-23-5	
Benzene	Not detected	70		ug/kg	66.1	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.1	107-06-2	
Trichloroethene	Not detected	70		ug/kg	66.1	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.1	10061-01-5	
Toluene	Not detected	70		ug/kg	66.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.1	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.1	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	66.1	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.38 (continued)

Sample Tag: SB-13 @ 4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	66.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.1	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.1	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.1		
o-Xylene	Not detected	70		ug/kg	66.1	95-47-6	
Styrene	Not detected	70		ug/kg	66.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.1	98-82-8	
Bromoform	Not detected	100		ug/kg	66.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.1	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.1	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.1	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.1	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.1	87-61-6	
Naphthalene	Not detected	300		ug/kg	66.1	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	66.1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.39

Sample Tag: SB-13 @ 12'

Collected Date/Time: 10/08/2021 12:10

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.40

Sample Tag: SB-14 @ 2'

Collected Date/Time: 10/08/2021 12:15

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.188/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5.17	0.20		mg/kg	274	7440-38-2	
Barium	62.3	1.0		mg/kg	274	7440-39-3	
Cadmium	0.27	0.20		mg/kg	274	7440-43-9	
Chromium	12.3	0.50		mg/kg	274	7440-47-3	
Copper	18.5	0.50		mg/kg	274	7440-50-8	
Lead	104	0.30		mg/kg	274	7439-92-1	
Selenium	Not detected	0.40		mg/kg	274	7782-49-2	
Silver	Not detected	0.20		mg/kg	274	7440-22-4	
Zinc	85.4	0.50		mg/kg	274	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:30, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.107	0.050		mg/kg	58	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	300	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.40 (continued)

Sample Tag: SB-14 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 17:25, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	500	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	500	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:23, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.3	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.3	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.3	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.3	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.3	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.3	109-99-9	
Chloroform	Not detected	60		ug/kg	61.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.3	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.3	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.3	56-23-5	
Benzene	Not detected	60		ug/kg	61.3	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.3	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.3	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.3	10061-01-5	
Toluene	Not detected	60		ug/kg	61.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.3	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.3	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.40 (continued)

Sample Tag: SB-14 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:23, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	20		ug/kg	61.3	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.3	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.3		
o-Xylene	Not detected	60		ug/kg	61.3	95-47-6	
Styrene	Not detected	60		ug/kg	61.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.3	98-82-8	
Bromoform	Not detected	100		ug/kg	61.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.3	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.3	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.3	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.3	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	61.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	61.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.3	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.41

Sample Tag: SB-14 @ 4'

Collected Date/Time: 10/08/2021 12:28

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.111/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:05, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.55	0.20		mg/kg	236	7440-38-2	
Barium	49.5	1.0		mg/kg	236	7440-39-3	
Cadmium	0.25	0.20		mg/kg	236	7440-43-9	
Chromium	11.9	0.50		mg/kg	236	7440-47-3	
Copper	7.65	0.50		mg/kg	236	7440-50-8	
Lead	7.74	0.30		mg/kg	236	7439-92-1	
Selenium	Not detected	0.40		mg/kg	236	7782-49-2	
Silver	Not detected	0.20		mg/kg	236	7440-22-4	
Zinc	39.5	0.50		mg/kg	236	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:32, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.41 (continued)

Sample Tag: SB-14 @ 4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:25, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:46, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.6	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.6	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.6	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.6	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.6	109-99-9	
Chloroform	Not detected	70		ug/kg	65.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.6	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.6	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.6	56-23-5	
Benzene	Not detected	70		ug/kg	65.6	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.6	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.6	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.6	10061-01-5	
Toluene	Not detected	70		ug/kg	65.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.6	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.6	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.6	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.41 (continued)

Sample Tag: SB-14 @ 4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.6	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.6		
o-Xylene	Not detected	70		ug/kg	65.6	95-47-6	
Styrene	Not detected	70		ug/kg	65.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.6	98-82-8	
Bromoform	Not detected	100		ug/kg	65.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.6	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.6	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.6	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.6	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.6	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.42

Sample Tag: SB-14 @ 12'

Collected Date/Time: 10/08/2021 13:10

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.43

Sample Tag: SB-15 @ 2'

Collected Date/Time: 10/08/2021 13:20

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.219/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:07, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.00	0.20		mg/kg	282	7440-38-2	
Barium	61.9	1.0		mg/kg	282	7440-39-3	
Cadmium	0.27	0.20		mg/kg	282	7440-43-9	
Chromium	9.42	0.50		mg/kg	282	7440-47-3	
Copper	25.2	0.50		mg/kg	282	7440-50-8	
Lead	183	0.30		mg/kg	282	7439-92-1	
Selenium	Not detected	0.40		mg/kg	282	7782-49-2	
Silver	Not detected	0.20		mg/kg	282	7440-22-4	
Zinc	81.1	0.50		mg/kg	282	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:34, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.088	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:56, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.43 (continued)

Sample Tag: SB-15 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 03:56, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 19:09, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.7	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.7	109-99-9	
Chloroform	Not detected	60		ug/kg	63.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.7	56-23-5	
Benzene	Not detected	60		ug/kg	63.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-01-5	
Toluene	80	60		ug/kg	63.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.7	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.43 (continued)

Sample Tag: SB-15 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 19:09, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	63.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.7	630-20-6	
Ethylbenzene	80	60		ug/kg	63.7	100-41-4	
p,m-Xylene	100	100		ug/kg	63.7		
o-Xylene	120	60		ug/kg	63.7	95-47-6	
Styrene	Not detected	60		ug/kg	63.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.7	98-82-8	
Bromoform	Not detected	100		ug/kg	63.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.7	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.44

Sample Tag: SB-15 @ 5'

Collected Date/Time: 10/08/2021 13:23

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.427/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:09, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.88	0.20		mg/kg	268	7440-38-2	
Barium	33.3	1.0		mg/kg	268	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	268	7440-43-9	
Chromium	9.88	0.50		mg/kg	268	7440-47-3	
Copper	9.07	0.50		mg/kg	268	7440-50-8	
Lead	5.28	0.30		mg/kg	268	7439-92-1	
Selenium	Not detected	0.40		mg/kg	268	7782-49-2	
Silver	Not detected	0.20		mg/kg	268	7440-22-4	
Zinc	26.5	0.50		mg/kg	268	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:42, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.44 (continued)

Sample Tag: SB-15 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:42, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 19:31, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.1	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	60.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.1	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.1	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.1	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.1	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.1	109-99-9	
Chloroform	Not detected	60		ug/kg	60.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.1	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.1	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.1	56-23-5	
Benzene	Not detected	60		ug/kg	60.1	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.1	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.1	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.1	10061-01-5	
Toluene	Not detected	60		ug/kg	60.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.1	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.1	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.1	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.44 (continued)

Sample Tag: SB-15 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 19:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	60.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.1	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.1	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.1		
o-Xylene	Not detected	60		ug/kg	60.1	95-47-6	
Styrene	Not detected	60		ug/kg	60.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.1	98-82-8	
Bromoform	Not detected	100		ug/kg	60.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.1	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.1	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.1	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.1	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.1	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.1	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.45

Sample Tag: SB-15 @ 12'

Collected Date/Time: 10/08/2021 13:27

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.46

Sample Tag: SB-16 @ 2'

Collected Date/Time: 10/08/2021 13:31

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.759/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4.26	0.20		mg/kg	232	7440-38-2	
Barium	202	1.0		mg/kg	232	7440-39-3	
Cadmium	0.66	0.20		mg/kg	232	7440-43-9	
Chromium	9.12	0.50		mg/kg	232	7440-47-3	
Copper	17.1	0.50		mg/kg	232	7440-50-8	
Lead	572	0.30		mg/kg	232	7439-92-1	
Selenium	Not detected	0.40		mg/kg	232	7782-49-2	
Silver	Not detected	0.20		mg/kg	232	7440-22-4	
Zinc	235	0.50		mg/kg	232	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 13:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	3.199	0.050		mg/kg	620	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:33, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	300	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	900	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	2,200	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	1,800	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	3,200	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	3,600	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	900	300		ug/kg	10	191-24-2	
Chrysene	2,100	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.46 (continued)

Sample Tag: SB-16 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:33, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	4,600	300		ug/kg	10	206-44-0	
Fluorene	400	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	900	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	3,800	300		ug/kg	10	85-01-8	
Pyrene	4,300	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 22:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.7	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.7	109-99-9	
Chloroform	Not detected	70		ug/kg	67.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.7	56-23-5	
Benzene	Not detected	70		ug/kg	67.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.7	10061-01-5	
Toluene	Not detected	70		ug/kg	67.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.7	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.46 (continued)

Sample Tag: SB-16 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 22:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	67.7	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.7		
o-Xylene	Not detected	70		ug/kg	67.7	95-47-6	
Styrene	Not detected	70		ug/kg	67.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.7	98-82-8	
Bromoform	Not detected	100		ug/kg	67.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.7	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.47

Sample Tag: SB-16 @ 5'

Collected Date/Time: 10/08/2021 13:36

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	10.181/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:35, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.32	0.20		mg/kg	282	7440-38-2	
Barium	44.8	1.0		mg/kg	282	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	282	7440-43-9	
Chromium	11.4	0.50		mg/kg	282	7440-47-3	
Copper	8.40	0.50		mg/kg	282	7440-50-8	
Lead	8.10	0.30		mg/kg	282	7439-92-1	
Selenium	Not detected	0.40		mg/kg	282	7782-49-2	
Silver	Not detected	0.20		mg/kg	282	7440-22-4	
Zinc	37.3	0.50		mg/kg	282	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:02, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	60	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.47 (continued)

Sample Tag: SB-16 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 15:59, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 23:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.2	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.2	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.2	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.2	109-99-9	
Chloroform	Not detected	70		ug/kg	65.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.2	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.2	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.2	56-23-5	
Benzene	Not detected	70		ug/kg	65.2	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.2	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.2	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-01-5	
Toluene	Not detected	70		ug/kg	65.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.2	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.2	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.47 (continued)

Sample Tag: SB-16 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 23:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.2	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.2		
o-Xylene	Not detected	70		ug/kg	65.2	95-47-6	
Styrene	Not detected	70		ug/kg	65.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.2	98-82-8	
Bromoform	Not detected	100		ug/kg	65.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.2	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.2	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.2	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.2	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.2	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.48

Sample Tag: SB-16 @ 12'

Collected Date/Time: 10/08/2021 13:39

Matrix: Soil

COC Reference: 140902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.49

Sample Tag: SB-17 @ 2'

Collected Date/Time: 10/08/2021 13:40

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	8.733/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:37, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.64	0.20		mg/kg	239	7440-38-2	
Barium	250	1.0		mg/kg	239	7440-39-3	
Cadmium	0.78	0.20		mg/kg	239	7440-43-9	
Chromium	9.09	0.50		mg/kg	239	7440-47-3	
Copper	28.1	0.50		mg/kg	239	7440-50-8	
Lead	637	0.30		mg/kg	239	7439-92-1	
Selenium	Not detected	0.40		mg/kg	239	7782-49-2	
Silver	Not detected	0.20		mg/kg	239	7440-22-4	
Zinc	296	0.50		mg/kg	239	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	1.764	0.050		mg/kg	63	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:50, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	700	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	1,800	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	3,400	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	2,800	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	4,900	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	5,500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	1,100	300		ug/kg	10	191-24-2	
Chrysene	3,200	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.49 (continued)

Sample Tag: SB-17 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:50, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	7,400	300		ug/kg	10	206-44-0	
Fluorene	800	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	1,100	300		ug/kg	10	193-39-5	
Naphthalene	500	300		ug/kg	10	91-20-3	
Phenanthrene	7,300	300		ug/kg	10	85-01-8	
Pyrene	6,700	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	400	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	300	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 23:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.9	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.9	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.9	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.9	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.9	109-99-9	
Chloroform	Not detected	70		ug/kg	67.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.9	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.9	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.9	56-23-5	
Benzene	Not detected	70		ug/kg	67.9	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.9	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.9	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.9	10061-01-5	
Toluene	Not detected	70		ug/kg	67.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.9	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.9	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.49 (continued)

Sample Tag: SB-17 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 23:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	67.9	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.9	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.9		
o-Xylene	Not detected	70		ug/kg	67.9	95-47-6	
Styrene	Not detected	70		ug/kg	67.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.9	98-82-8	
Bromoform	Not detected	100		ug/kg	67.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.9	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.9	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.9	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.9	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.9	91-20-3	
2-Methylnaphthalene	200	100		ug/kg	67.9	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.50

Sample Tag: SB-17 @ 4.5'

Collected Date/Time: 10/08/2021 13:45

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	8.495/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.45	0.20		mg/kg	246	7440-38-2	
Barium	43.8	1.0		mg/kg	246	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	246	7440-43-9	
Chromium	11.1	0.50		mg/kg	246	7440-47-3	
Copper	9.88	0.50		mg/kg	246	7440-50-8	
Lead	8.86	0.30		mg/kg	246	7439-92-1	
Selenium	Not detected	0.40		mg/kg	246	7782-49-2	
Silver	Not detected	0.20		mg/kg	246	7440-22-4	
Zinc	28.5	0.50		mg/kg	246	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:09, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:16, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.50 (continued)

Sample Tag: SB-17 @ 4.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/19/21 16:16, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:02, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	73.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	73.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	73.7	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	73.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	73.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	73.7	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	73.7	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	73.7	75-71-8	
Chloromethane	Not detected	400		ug/kg	73.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	73.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	73.7	74-83-9	
Chloroethane	Not detected	400		ug/kg	73.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	73.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	73.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	73.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	73.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	73.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	73.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	73.7	109-99-9	
Chloroform	Not detected	70		ug/kg	73.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	73.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	73.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	73.7	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	73.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	73.7	56-23-5	
Benzene	Not detected	70		ug/kg	73.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	73.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	73.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	73.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	73.7	75-27-4	
Dibromomethane	Not detected	400		ug/kg	73.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	73.7	10061-01-5	
Toluene	Not detected	70		ug/kg	73.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	73.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	73.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	73.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	73.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	73.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	73.7	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.50 (continued)

Sample Tag: SB-17 @ 4.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	73.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	73.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	73.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	73.7		
o-Xylene	Not detected	70		ug/kg	73.7	95-47-6	
Styrene	Not detected	70		ug/kg	73.7	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	73.7	98-82-8	
Bromoform	Not detected	100		ug/kg	73.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	73.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	73.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	73.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	73.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	73.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	73.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	73.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	73.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	73.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	73.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	73.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	73.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	73.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	73.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	73.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	73.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	490		ug/kg	73.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	490		ug/kg	73.7	87-61-6	
Naphthalene	Not detected	400		ug/kg	73.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	73.7	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.51

Sample Tag: SB-17 @ 12'

Collected Date/Time: 10/08/2021 13:51

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.52

Sample Tag: SB-18 @ 2'

Collected Date/Time: 10/08/2021 13:57

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.750/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.24	0.20		mg/kg	277	7440-38-2	
Barium	67.7	1.0		mg/kg	277	7440-39-3	
Cadmium	0.33	0.20		mg/kg	277	7440-43-9	
Chromium	9.44	0.50		mg/kg	277	7440-47-3	
Copper	22.2	0.50		mg/kg	277	7440-50-8	
Lead	65.8	0.30		mg/kg	277	7439-92-1	
Selenium	Not detected	0.40		mg/kg	277	7782-49-2	
Silver	Not detected	0.20		mg/kg	277	7440-22-4	
Zinc	94.1	0.50		mg/kg	277	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:11, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.127	0.050		mg/kg	66	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:13, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	500	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	300	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.52 (continued)

Sample Tag: SB-18 @ 2'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 04:13, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	600	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	600	300		ug/kg	10	85-01-8	
Pyrene	600	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.8	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.8	109-99-9	
Chloroform	Not detected	60		ug/kg	63.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.8	56-23-5	
Benzene	Not detected	60		ug/kg	63.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-01-5	
Toluene	Not detected	60		ug/kg	63.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.8	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.52 (continued)

Sample Tag: SB-18 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	63.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.8		
o-Xylene	Not detected	60		ug/kg	63.8	95-47-6	
Styrene	Not detected	60		ug/kg	63.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.8	98-82-8	
Bromoform	Not detected	100		ug/kg	63.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.53

Sample Tag: SB-18 @ 5'

Collected Date/Time: 10/08/2021 14:01

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:39	JW	
Sample wt. (g) / Methanol (ml)*	9.179/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 17:10, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.45	0.20		mg/kg	233	7440-38-2	
Barium	41.8	1.0		mg/kg	233	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	233	7440-43-9	
Chromium	12.0	0.50		mg/kg	233	7440-47-3	
Copper	8.99	0.50		mg/kg	233	7440-50-8	
Lead	9.09	0.30		mg/kg	233	7439-92-1	
Selenium	Not detected	0.40		mg/kg	233	7782-49-2	
Silver	Not detected	0.20		mg/kg	233	7440-22-4	
Zinc	78.1	0.50		mg/kg	233	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:56, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.53 (continued)

Sample Tag: SB-18 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/20/21 01:56, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	71.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71.5	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71.5	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71.5	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71.5	75-71-8	
Chloromethane	Not detected	400		ug/kg	71.5	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71.5	75-01-4	
Bromomethane	Not detected	300		ug/kg	71.5	74-83-9	
Chloroethane	Not detected	400		ug/kg	71.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71.5	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71.5	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71.5	109-99-9	
Chloroform	Not detected	70		ug/kg	71.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71.5	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71.5	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71.5	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71.5	56-23-5	
Benzene	Not detected	70		ug/kg	71.5	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71.5	107-06-2	
Trichloroethene	Not detected	70		ug/kg	71.5	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71.5	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71.5	10061-01-5	
Toluene	Not detected	70		ug/kg	71.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71.5	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71.5	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	71.5	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.53 (continued)

Sample Tag: SB-18 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 00:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	71.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71.5	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	71.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	71.5		
o-Xylene	Not detected	70		ug/kg	71.5	95-47-6	
Styrene	Not detected	70		ug/kg	71.5	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	71.5	98-82-8	
Bromoform	Not detected	100		ug/kg	71.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71.5	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	71.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	71.5	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	71.5	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	71.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	71.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	71.5	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	71.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71.5	87-61-6	
Naphthalene	Not detected	400		ug/kg	71.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	71.5	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.54

Sample Tag: SB-18 @ 12'

Collected Date/Time: 10/08/2021 14:03

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.55

Sample Tag: SB-19 @ 3'

Collected Date/Time: 10/08/2021 14:07

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.871/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:45, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.35	0.20		mg/kg	309	7440-38-2	
Barium	43.9	1.0		mg/kg	309	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	309	7440-43-9	
Chromium	8.17	0.50		mg/kg	309	7440-47-3	
Copper	12.1	0.50		mg/kg	309	7440-50-8	
Lead	12.6	0.30		mg/kg	309	7439-92-1	
Selenium	0.60	0.40		mg/kg	309	7782-49-2	
Silver	Not detected	0.20		mg/kg	309	7440-22-4	
Zinc	38.0	0.50		mg/kg	309	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.152	0.050		mg/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:07, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.55 (continued)

Sample Tag: SB-19 @ 3'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:07, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	77.4	60-29-7	
Acetone	Not detected	2,000		ug/kg	77.4	67-64-1	
Methyl iodide	Not detected	200		ug/kg	77.4	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	77.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	77.4	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	77.4	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	77.4	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	77.4	75-71-8	
Chloromethane	Not detected	400		ug/kg	77.4	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	77.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	77.4	74-83-9	
Chloroethane	Not detected	400		ug/kg	77.4	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	77.4	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	77.4	75-35-4	
Methylene chloride	Not detected	200		ug/kg	77.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	77.4	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	77.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	77.4	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	77.4	109-99-9	
Chloroform	Not detected	80		ug/kg	77.4	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	77.4	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	77.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	77.4	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	77.4	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	77.4	56-23-5	
Benzene	Not detected	80		ug/kg	77.4	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	77.4	107-06-2	
Trichloroethene	Not detected	80		ug/kg	77.4	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	77.4	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	77.4	75-27-4	
Dibromomethane	Not detected	400		ug/kg	77.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	77.4	10061-01-5	
Toluene	Not detected	80		ug/kg	77.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	77.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	77.4	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	77.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	77.4	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	77.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	77.4	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.55 (continued)

Sample Tag: SB-19 @ 3'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	80		ug/kg	77.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	77.4	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	77.4	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	77.4		
o-Xylene	Not detected	80		ug/kg	77.4	95-47-6	
Styrene	Not detected	80		ug/kg	77.4	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	77.4	98-82-8	
Bromoform	Not detected	200		ug/kg	77.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	77.4	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	77.4	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	77.4	103-65-1	
Bromobenzene	Not detected	200		ug/kg	77.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	77.4	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	77.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	77.4	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	77.4	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	77.4	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	77.4	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	77.4	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	77.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	77.4	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	77.4	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	77.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	77.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	510		ug/kg	77.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	510		ug/kg	77.4	87-61-6	
Naphthalene	Not detected	400		ug/kg	77.4	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	77.4	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.56

Sample Tag: SB-19 @ 5'

Collected Date/Time: 10/08/2021 14:11

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.688/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.49	0.20		mg/kg	286	7440-38-2	
Barium	38.9	1.0		mg/kg	286	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	286	7440-43-9	
Chromium	10.3	0.50		mg/kg	286	7440-47-3	
Copper	9.30	0.50		mg/kg	286	7440-50-8	
Lead	4.52	0.30		mg/kg	286	7439-92-1	
Selenium	Not detected	0.40		mg/kg	286	7782-49-2	
Silver	Not detected	0.20		mg/kg	286	7440-22-4	
Zinc	30.8	0.50		mg/kg	286	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	71	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:29, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.56 (continued)

Sample Tag: SB-19 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:29, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.9	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.9	109-99-9	
Chloroform	Not detected	60		ug/kg	63.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.9	56-23-5	
Benzene	Not detected	60		ug/kg	63.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.9	10061-01-5	
Toluene	Not detected	60		ug/kg	63.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.9	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.9	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.56 (continued)

Sample Tag: SB-19 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	63.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.9		
o-Xylene	Not detected	60		ug/kg	63.9	95-47-6	
Styrene	Not detected	60		ug/kg	63.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.9	98-82-8	
Bromoform	Not detected	100		ug/kg	63.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.57

Sample Tag: SB-19 @ 12'

Collected Date/Time: 10/08/2021 14:17

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.58

Sample Tag: SB-20 @ 3.5'

Collected Date/Time: 10/08/2021 14:28

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.502/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 14:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.00	0.20		mg/kg	242	7440-38-2	
Barium	48.1	1.0		mg/kg	242	7440-39-3	
Cadmium	0.22	0.20		mg/kg	242	7440-43-9	
Chromium	8.06	0.50		mg/kg	242	7440-47-3	
Copper	9.27	0.50		mg/kg	242	7440-50-8	
Lead	33.2	0.30		mg/kg	242	7439-92-1	
Selenium	Not detected	0.40		mg/kg	242	7782-49-2	
Silver	Not detected	0.20		mg/kg	242	7440-22-4	
Zinc	42.1	0.50		mg/kg	242	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.117	0.050		mg/kg	58	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:51, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	500	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	800	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	700	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,300	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	400	300		ug/kg	10	191-24-2	
Chrysene	900	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.58 (continued)

Sample Tag: SB-20 @ 3.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 17:51, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	2,400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	400	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	2,300	300		ug/kg	10	85-01-8	
Pyrene	2,000	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	68	60-29-7	
Acetone	Not detected	1,000		ug/kg	68	67-64-1	
Methyl iodide	Not detected	100		ug/kg	68	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	68	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	68	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	68	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	68	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	68	75-71-8	
Chloromethane	Not detected	300		ug/kg	68	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	68	75-01-4	
Bromomethane	Not detected	300		ug/kg	68	74-83-9	
Chloroethane	Not detected	300		ug/kg	68	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	68	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	68	75-35-4	
Methylene chloride	Not detected	100		ug/kg	68	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	68	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	68	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	68	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	68	109-99-9	
Chloroform	Not detected	70		ug/kg	68	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	68	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	68	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	68	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	68	56-23-5	
Benzene	Not detected	70		ug/kg	68	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	68	107-06-2	
Trichloroethene	Not detected	70		ug/kg	68	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	68	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	68	75-27-4	
Dibromomethane	Not detected	300		ug/kg	68	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	68	10061-01-5	
Toluene	Not detected	70		ug/kg	68	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	68	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	68	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	68	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	68	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	68	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.58 (continued)

Sample Tag: SB-20 @ 3.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 01:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	68	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	68	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	68	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	68	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	68		
o-Xylene	Not detected	70		ug/kg	68	95-47-6	
Styrene	Not detected	70		ug/kg	68	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	68	98-82-8	
Bromoform	Not detected	100		ug/kg	68	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	68	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	68	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	68	103-65-1	
Bromobenzene	Not detected	100		ug/kg	68	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	68	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	68	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	68	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	68	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	68	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	68	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	68	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	68	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	68	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	68	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	68	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	68	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	68	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	68	87-61-6	
Naphthalene	Not detected	300		ug/kg	68	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	68	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.59

Sample Tag: SB-20 @ 5'

Collected Date/Time: 10/08/2021 14:31

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/15/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	8.275/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/15/21 10:00	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/15/21 15:05, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.96	0.20		mg/kg	247	7440-38-2	
Barium	28.5	1.0		mg/kg	247	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	247	7440-43-9	
Chromium	11.2	0.50		mg/kg	247	7440-47-3	
Copper	10.5	0.50		mg/kg	247	7440-50-8	
Lead	11.7	0.30		mg/kg	247	7439-92-1	
Selenium	Not detected	0.40		mg/kg	247	7782-49-2	
Silver	Not detected	0.20		mg/kg	247	7440-22-4	
Zinc	32.2	0.50		mg/kg	247	7440-66-6	

Method: SW7471B, Run Date: 10/15/21 14:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	62	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 18:13, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.59 (continued)

Sample Tag: SB-20 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 18:13, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 02:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	75.5	60-29-7	
Acetone	Not detected	2,000		ug/kg	75.5	67-64-1	
Methyl iodide	Not detected	200		ug/kg	75.5	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	75.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	75.5	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	75.5	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	75.5	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	75.5	75-71-8	
Chloromethane	Not detected	400		ug/kg	75.5	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	75.5	75-01-4	
Bromomethane	Not detected	300		ug/kg	75.5	74-83-9	
Chloroethane	Not detected	400		ug/kg	75.5	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	75.5	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	75.5	75-35-4	
Methylene chloride	Not detected	200		ug/kg	75.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	75.5	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	75.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	75.5	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	75.5	109-99-9	
Chloroform	Not detected	80		ug/kg	75.5	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	75.5	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	75.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	75.5	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	75.5	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	75.5	56-23-5	
Benzene	Not detected	80		ug/kg	75.5	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	75.5	107-06-2	
Trichloroethene	Not detected	80		ug/kg	75.5	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	75.5	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	75.5	75-27-4	
Dibromomethane	Not detected	400		ug/kg	75.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	75.5	10061-01-5	
Toluene	Not detected	80		ug/kg	75.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	75.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	75.5	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	75.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	75.5	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	75.5	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	75.5	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.59 (continued)

Sample Tag: SB-20 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 02:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	80		ug/kg	75.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	75.5	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	75.5	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	75.5		
o-Xylene	Not detected	80		ug/kg	75.5	95-47-6	
Styrene	Not detected	80		ug/kg	75.5	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	75.5	98-82-8	
Bromoform	Not detected	200		ug/kg	75.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	75.5	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	75.5	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	75.5	103-65-1	
Bromobenzene	Not detected	200		ug/kg	75.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	75.5	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	75.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	75.5	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	75.5	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	75.5	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	75.5	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	75.5	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	75.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	75.5	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	75.5	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	75.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	75.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	500		ug/kg	75.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	500		ug/kg	75.5	87-61-6	
Naphthalene	Not detected	400		ug/kg	75.5	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	75.5	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.60

Sample Tag: SB-20 @ 12'

Collected Date/Time: 10/08/2021 14:37

Matrix: Soil

COC Reference: 140903

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.61

Sample Tag: SB-21 @ 3.5'

Collected Date/Time: 10/08/2021 14:45

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.236/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.88	0.20		mg/kg	252	7440-38-2	
Barium	62.5	1.0		mg/kg	252	7440-39-3	
Cadmium	0.43	0.20		mg/kg	252	7440-43-9	
Chromium	8.03	0.50		mg/kg	252	7440-47-3	
Copper	11.8	0.50		mg/kg	252	7440-50-8	
Lead	90.1	0.30		mg/kg	252	7439-92-1	
Selenium	Not detected	0.40		mg/kg	252	7782-49-2	
Silver	Not detected	0.20		mg/kg	252	7440-22-4	
Zinc	73.1	0.50		mg/kg	252	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 13:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.153	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 18:35, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	400	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.61 (continued)

Sample Tag: SB-21 @ 3.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 18:35, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 02:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.1	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.1	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.1	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.1	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.1	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.1	109-99-9	
Chloroform	Not detected	60		ug/kg	61.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.1	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.1	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.1	56-23-5	
Benzene	Not detected	60		ug/kg	61.1	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.1	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.1	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.1	10061-01-5	
Toluene	Not detected	60		ug/kg	61.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.1	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.1	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.1	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.61 (continued)

Sample Tag: SB-21 @ 3.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 02:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	61.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.1	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.1	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.1		
o-Xylene	Not detected	60		ug/kg	61.1	95-47-6	
Styrene	Not detected	60		ug/kg	61.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.1	98-82-8	
Bromoform	Not detected	100		ug/kg	61.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.1	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.1	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.1	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.1	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	61.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	61.1	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.1	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.62

Sample Tag: SB-21 @ 5'

Collected Date/Time: 10/08/2021 14:49

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.721/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.10	0.20		mg/kg	279	7440-38-2	
Barium	62.3	1.0		mg/kg	279	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	279	7440-43-9	
Chromium	19.6	0.50		mg/kg	279	7440-47-3	
Copper	14.7	0.50		mg/kg	279	7440-50-8	
Lead	26.9	0.30		mg/kg	279	7439-92-1	
Selenium	Not detected	0.40		mg/kg	279	7782-49-2	
Silver	Not detected	0.20		mg/kg	279	7440-22-4	
Zinc	61.7	0.50		mg/kg	279	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 13:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	66	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 19:42, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.62 (continued)

Sample Tag: SB-21 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 19:42, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	69.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	69.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	69.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	69.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	69.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	69.3	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	69.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	69.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	69.3	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	69.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	69.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	69.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	69.3	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	69.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	69.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	69.3	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	69.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	69.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	69.3	109-99-9	
Chloroform	Not detected	70		ug/kg	69.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	69.3	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	69.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	69.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	69.3	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	69.3	56-23-5	
Benzene	Not detected	70		ug/kg	69.3	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	69.3	107-06-2	
Trichloroethene	Not detected	70		ug/kg	69.3	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	69.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	69.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	69.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	69.3	10061-01-5	
Toluene	Not detected	70		ug/kg	69.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	69.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	69.3	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	69.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	69.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	69.3	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	69.3	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.62 (continued)

Sample Tag: SB-21 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	69.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	69.3	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	69.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	69.3		
o-Xylene	Not detected	70		ug/kg	69.3	95-47-6	
Styrene	Not detected	70		ug/kg	69.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	69.3	98-82-8	
Bromoform	Not detected	100		ug/kg	69.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	69.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	69.3	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	69.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	69.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	69.3	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	69.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	69.3	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	69.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	69.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	69.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	69.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	69.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	69.3	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	69.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	69.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	69.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	460		ug/kg	69.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	460		ug/kg	69.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	69.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	69.3	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.63

Sample Tag: SB-21 @ 12'

Collected Date/Time: 10/08/2021 14:58

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.64

Sample Tag: SB-22 @ 1.5'

Collected Date/Time: 10/08/2021 15:11

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.936/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	82	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:45, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	7.13	0.20		mg/kg	299	7440-38-2	
Barium	84.1	1.0		mg/kg	299	7440-39-3	
Cadmium	0.47	0.20		mg/kg	299	7440-43-9	
Chromium	12.9	0.50		mg/kg	299	7440-47-3	
Copper	22.3	0.50		mg/kg	299	7440-50-8	
Lead	100	0.30		mg/kg	299	7439-92-1	
Selenium	0.41	0.40		mg/kg	299	7782-49-2	
Silver	Not detected	0.20		mg/kg	299	7440-22-4	
Zinc	95.2	0.50		mg/kg	299	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 13:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.408	0.050		mg/kg	72	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:04, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	500	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.64 (continued)

Sample Tag: SB-22 @ 1.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:04, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	500	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	400	300		ug/kg	10	85-01-8	
Pyrene	500	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	72.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	72.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	72.3	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	72.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	72.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	72.3	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	72.3	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	72.3	75-71-8	
Chloromethane	Not detected	400		ug/kg	72.3	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	72.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	72.3	74-83-9	
Chloroethane	Not detected	400		ug/kg	72.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	72.3	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	72.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	72.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	72.3	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	72.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	72.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	72.3	109-99-9	
Chloroform	Not detected	70		ug/kg	72.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	72.3	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	72.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	72.3	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	72.3	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	72.3	56-23-5	
Benzene	Not detected	70		ug/kg	72.3	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	72.3	107-06-2	
Trichloroethene	Not detected	70		ug/kg	72.3	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	72.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	72.3	75-27-4	
Dibromomethane	Not detected	400		ug/kg	72.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	72.3	10061-01-5	
Toluene	Not detected	70		ug/kg	72.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	72.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	72.3	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	72.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	72.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	72.3	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.64 (continued)

Sample Tag: SB-22 @ 1.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	72.3	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	72.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	72.3	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	72.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	72.3		
o-Xylene	Not detected	70		ug/kg	72.3	95-47-6	
Styrene	Not detected	70		ug/kg	72.3	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	72.3	98-82-8	
Bromoform	Not detected	100		ug/kg	72.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	72.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	72.3	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	72.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	72.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	72.3	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	72.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	72.3	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	72.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	72.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	72.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	72.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	72.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	72.3	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	72.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	72.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	72.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	480		ug/kg	72.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	480		ug/kg	72.3	87-61-6	
Naphthalene	Not detected	400		ug/kg	72.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	72.3	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.65

Sample Tag: SB-22 @ 4'

Collected Date/Time: 10/08/2021 15:15

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.321/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:47, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	4.38	0.20		mg/kg	244	7440-38-2	
Barium	62.1	1.0		mg/kg	244	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	244	7440-43-9	
Chromium	16.4	0.50		mg/kg	244	7440-47-3	
Copper	14.5	0.50		mg/kg	244	7440-50-8	
Lead	7.29	0.30		mg/kg	244	7439-92-1	
Selenium	Not detected	0.40		mg/kg	244	7782-49-2	
Silver	Not detected	0.20		mg/kg	244	7440-22-4	
Zinc	42.5	0.50		mg/kg	244	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 13:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:26, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.65 (continued)

Sample Tag: SB-22 @ 4'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:26, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:49, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.9	107-13-1	
2-Butanone (MEK)	Not detected	930		ug/kg	61.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.9	109-99-9	
Chloroform	Not detected	60		ug/kg	61.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.9	56-23-5	
Benzene	Not detected	60		ug/kg	61.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.9	10061-01-5	
Toluene	Not detected	60		ug/kg	61.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.9	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.65 (continued)

Sample Tag: SB-22 @ 4'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 03:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	61.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.9		
o-Xylene	Not detected	60		ug/kg	61.9	95-47-6	
Styrene	Not detected	60		ug/kg	61.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.9	98-82-8	
Bromoform	Not detected	100		ug/kg	61.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.66

Sample Tag: SB-22 @ 12'

Collected Date/Time: 10/08/2021 15:19

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.67

Sample Tag: SB-23 @ 0.5'

Collected Date/Time: 10/08/2021 15:33

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	8.561/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.07	0.20		mg/kg	243	7440-38-2	
Barium	95.6	1.0		mg/kg	243	7440-39-3	
Cadmium	0.58	0.20		mg/kg	243	7440-43-9	
Chromium	17.1	0.50		mg/kg	243	7440-47-3	
Copper	10.2	0.50		mg/kg	243	7440-50-8	
Lead	61.6	0.30		mg/kg	243	7439-92-1	
Selenium	Not detected	0.40		mg/kg	243	7782-49-2	
Silver	Not detected	0.20		mg/kg	243	7440-22-4	
Zinc	98.2	0.50		mg/kg	243	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 13:58, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.259	0.050		mg/kg	75	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/22/21 00:29, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	600	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,200	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	700	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.67 (continued)

Sample Tag: SB-23 @ 0.5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/22/21 00:29, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	800	300		ug/kg	10	85-01-8	
Pyrene	1,400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	80.6	60-29-7	
Acetone	Not detected	2,000		ug/kg	80.6	67-64-1	
Methyl iodide	Not detected	200		ug/kg	80.6	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	80.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	80.6	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	80.6	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	80.6	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	80.6	75-71-8	
Chloromethane	Not detected	400		ug/kg	80.6	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	80.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	80.6	74-83-9	
Chloroethane	Not detected	400		ug/kg	80.6	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	80.6	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	80.6	75-35-4	
Methylene chloride	Not detected	200		ug/kg	80.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	80.6	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	80.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	80.6	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	80.6	109-99-9	
Chloroform	Not detected	80		ug/kg	80.6	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	80.6	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	80.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	80.6	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	80.6	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	80.6	56-23-5	
Benzene	Not detected	80		ug/kg	80.6	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	80.6	107-06-2	
Trichloroethene	Not detected	80		ug/kg	80.6	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	80.6	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	80.6	75-27-4	
Dibromomethane	Not detected	400		ug/kg	80.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	80.6	10061-01-5	
Toluene	Not detected	80		ug/kg	80.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	80.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	80.6	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	80.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	80.6	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	80.6	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.67 (continued)

Sample Tag: SB-23 @ 0.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	80.6	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	80.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	80.6	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	80.6	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	80.6		
o-Xylene	Not detected	80		ug/kg	80.6	95-47-6	
Styrene	Not detected	80		ug/kg	80.6	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	80.6	98-82-8	
Bromoform	Not detected	200		ug/kg	80.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	80.6	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	80.6	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	80.6	103-65-1	
Bromobenzene	Not detected	200		ug/kg	80.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	80.6	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	80.6	98-06-6	
1,2,4-Trimethylbenzene	110	80		ug/kg	80.6	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	80.6	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	80.6	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	80.6	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	80.6	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	80.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	80.6	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	80.6	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	80.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	80.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	530		ug/kg	80.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	530		ug/kg	80.6	87-61-6	
Naphthalene	Not detected	400		ug/kg	80.6	91-20-3	
2-Methylnaphthalene	200	200		ug/kg	80.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.68

Sample Tag: SB-23 @ 5'

Collected Date/Time: 10/08/2021 15:37

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.037/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:51, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.94	0.20		mg/kg	290	7440-38-2	
Barium	107	1.0		mg/kg	290	7440-39-3	
Cadmium	0.39	0.20		mg/kg	290	7440-43-9	
Chromium	18.6	0.50		mg/kg	290	7440-47-3	
Copper	21.3	0.50		mg/kg	290	7440-50-8	
Lead	31.5	0.30		mg/kg	290	7439-92-1	
Selenium	Not detected	0.40		mg/kg	290	7782-49-2	
Silver	Not detected	0.20		mg/kg	290	7440-22-4	
Zinc	45.3	0.50		mg/kg	290	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 14:00, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:48, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.68 (continued)

Sample Tag: SB-23 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 20:48, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	68.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	68.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	68.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	68.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	68.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	68.8	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	68.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	68.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	68.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	68.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	68.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	68.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	68.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	68.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	68.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	68.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	68.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	68.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	68.8	109-99-9	
Chloroform	Not detected	70		ug/kg	68.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	68.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	68.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	68.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	68.8	56-23-5	
Benzene	Not detected	70		ug/kg	68.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	68.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	68.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	68.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	68.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	68.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	68.8	10061-01-5	
Toluene	Not detected	70		ug/kg	68.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	68.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	68.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	68.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	68.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	68.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	68.8	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.68 (continued)

Sample Tag: SB-23 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	68.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	68.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	68.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	68.8		
o-Xylene	Not detected	70		ug/kg	68.8	95-47-6	
Styrene	Not detected	70		ug/kg	68.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	68.8	98-82-8	
Bromoform	Not detected	100		ug/kg	68.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	68.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	68.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	68.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	68.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	68.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	68.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	68.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	68.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	68.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	68.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	68.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	68.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	68.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	68.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	68.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	68.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	68.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	68.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	68.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	68.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.69

Sample Tag: SB-23 @ 12'

Collected Date/Time: 10/08/2021 15:39

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.70

Sample Tag: SB-24 @ 8"

Collected Date/Time: 10/08/2021 15:45

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.862/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	9.82	0.20		mg/kg	269	7440-38-2	
Barium	144	1.0		mg/kg	269	7440-39-3	
Cadmium	1.18	0.20		mg/kg	269	7440-43-9	
Chromium	14.4	0.50		mg/kg	269	7440-47-3	
Copper	47.5	0.50		mg/kg	269	7440-50-8	
Lead	265	0.30		mg/kg	269	7439-92-1	
Selenium	Not detected	0.40		mg/kg	269	7782-49-2	
Silver	Not detected	0.20		mg/kg	269	7440-22-4	
Zinc	289	0.50		mg/kg	269	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 14:01, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.372	0.050		mg/kg	66	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/22/21 00:51, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	1,000	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	900	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	2,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	2,400	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	1,100	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.70 (continued)

Sample Tag: SB-24 @ 8"

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/22/21 00:51, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,900	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	800	300		ug/kg	10	85-01-8	
Pyrene	2,000	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.4	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.4	109-99-9	
Chloroform	Not detected	60		ug/kg	64.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.4	56-23-5	
Benzene	Not detected	60		ug/kg	64.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-01-5	
Toluene	Not detected	60		ug/kg	64.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.4	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.70 (continued)

Sample Tag: SB-24 @ 8"

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 04:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	64.4	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.4		
o-Xylene	Not detected	60		ug/kg	64.4	95-47-6	
Styrene	Not detected	60		ug/kg	64.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.4	98-82-8	
Bromoform	Not detected	100		ug/kg	64.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.4	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.71

Sample Tag: SB-24 @ 5'

Collected Date/Time: 10/08/2021 15:47

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.806/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:55, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.83	0.20		mg/kg	248	7440-38-2	
Barium	86.6	1.0		mg/kg	248	7440-39-3	
Cadmium	0.36	0.20		mg/kg	248	7440-43-9	
Chromium	19.8	0.50		mg/kg	248	7440-47-3	
Copper	13.3	0.50		mg/kg	248	7440-50-8	
Lead	16.6	0.30		mg/kg	248	7439-92-1	
Selenium	Not detected	0.40		mg/kg	248	7782-49-2	
Silver	Not detected	0.20		mg/kg	248	7440-22-4	
Zinc	68.2	0.50		mg/kg	248	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 14:04, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 21:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	



Analytical Laboratory Report

Lab Sample ID: S29183.71 (continued)

Sample Tag: SB-24 @ 5'

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 21:10, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 05:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	68.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	68.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	68.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	68.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	68.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	68.8	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	68.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	68.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	68.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	68.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	68.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	68.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	68.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	68.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	68.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	68.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	68.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	68.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	68.8	109-99-9	
Chloroform	Not detected	70		ug/kg	68.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	68.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	68.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	68.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	68.8	56-23-5	
Benzene	Not detected	70		ug/kg	68.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	68.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	68.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	68.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	68.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	68.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	68.8	10061-01-5	
Toluene	Not detected	70		ug/kg	68.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	68.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	68.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	68.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	68.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	68.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	68.8	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.71 (continued)

Sample Tag: SB-24 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 05:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	68.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	68.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	68.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	68.8		
o-Xylene	Not detected	70		ug/kg	68.8	95-47-6	
Styrene	Not detected	70		ug/kg	68.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	68.8	98-82-8	
Bromoform	Not detected	100		ug/kg	68.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	68.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	68.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	68.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	68.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	68.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	68.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	68.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	68.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	68.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	68.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	68.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	68.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	68.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	68.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	68.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	68.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	68.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	68.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	68.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	68.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S29183.72

Sample Tag: SB-24 @ 12'

Collected Date/Time: 10/08/2021 15:49

Matrix: Soil

COC Reference: 144689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.73

Sample Tag: SB-25 @ 12" (1')

Collected Date/Time: 10/08/2021 15:51

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.434/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:57, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.59	0.20		mg/kg	272	7440-38-2	
Barium	143	1.0		mg/kg	272	7440-39-3	
Cadmium	0.30	0.20		mg/kg	272	7440-43-9	
Chromium	13.6	0.50		mg/kg	272	7440-47-3	
Copper	26.4	0.50		mg/kg	272	7440-50-8	
Lead	100	0.30		mg/kg	272	7439-92-1	
Selenium	Not detected	0.40		mg/kg	272	7782-49-2	
Silver	Not detected	0.20		mg/kg	272	7440-22-4	
Zinc	146	0.50		mg/kg	272	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 14:06, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.694	0.050		mg/kg	65	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 20:51, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.73 (continued)

Sample Tag: SB-25 @ 12" (1')

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 21:32, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 05:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	68.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	68.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	68.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	68.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	68.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	68.4	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	68.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	68.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	68.4	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	68.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	68.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	68.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	68.4	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	68.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	68.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	68.4	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	68.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	68.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	68.4	109-99-9	
Chloroform	Not detected	70		ug/kg	68.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	68.4	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	68.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	68.4	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	68.4	56-23-5	
Benzene	Not detected	70		ug/kg	68.4	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	68.4	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.73 (continued)

Sample Tag: SB-25 @ 12" (1')

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 05:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	70		ug/kg	68.4	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	68.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	68.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	68.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	68.4	10061-01-5	
Toluene	Not detected	70		ug/kg	68.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	68.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	68.4	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	68.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	68.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	68.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	68.4	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	68.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	68.4	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	68.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	68.4		
o-Xylene	Not detected	70		ug/kg	68.4	95-47-6	
Styrene	Not detected	70		ug/kg	68.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	68.4	98-82-8	
Bromoform	Not detected	100		ug/kg	68.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	68.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	68.4	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	68.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	68.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	68.4	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	68.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	68.4	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	68.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	68.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	68.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	68.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	68.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	68.4	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	68.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	68.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	68.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	68.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	68.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	68.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	68.4	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.74

Sample Tag: SB-25 @ 4.5'

Collected Date/Time: 10/08/2021 15:55

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.944/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 12:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.12	0.20		mg/kg	243	7440-38-2	
Barium	64.6	1.0		mg/kg	243	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	243	7440-43-9	
Chromium	18.0	0.50		mg/kg	243	7440-47-3	
Copper	11.2	0.50		mg/kg	243	7440-50-8	
Lead	10.2	0.30		mg/kg	243	7439-92-1	
Selenium	Not detected	0.40		mg/kg	243	7782-49-2	
Silver	Not detected	0.20		mg/kg	243	7440-22-4	
Zinc	51.7	0.50		mg/kg	243	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 14:59, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	68	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 21:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.74 (continued)

Sample Tag: SB-25 @ 4.5'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 21:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 06:02, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	66.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	66.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	66.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	66.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	66.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	66.6	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	66.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	66.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	66.6	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	66.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	66.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	66.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	66.6	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	66.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	66.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	66.6	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	66.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	66.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	66.6	109-99-9	
Chloroform	Not detected	70		ug/kg	66.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	66.6	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	66.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	66.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	66.6	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	66.6	56-23-5	
Benzene	Not detected	70		ug/kg	66.6	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	66.6	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.74 (continued)

Sample Tag: SB-25 @ 4.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/15/21 06:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	70		ug/kg	66.6	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	66.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	66.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	66.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	66.6	10061-01-5	
Toluene	Not detected	70		ug/kg	66.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	66.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	66.6	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	66.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	66.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	66.6	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	66.6	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	66.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	66.6	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	66.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	66.6		
o-Xylene	Not detected	70		ug/kg	66.6	95-47-6	
Styrene	Not detected	70		ug/kg	66.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	66.6	98-82-8	
Bromoform	Not detected	100		ug/kg	66.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	66.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	66.6	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	66.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	66.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	66.6	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	66.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	66.6	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	66.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	66.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	66.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	66.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	66.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	66.6	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	66.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	66.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	66.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	66.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	66.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	66.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	66.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.75

Sample Tag: SB-25 @ 12'

Collected Date/Time: 10/08/2021 15:59

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.76

Sample Tag: SB-26 @ 12" (1')

Collected Date/Time: 10/08/2021 16:05

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.572/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5.50	0.20		mg/kg	268	7440-38-2	
Barium	137	1.0		mg/kg	268	7440-39-3	
Cadmium	0.80	0.20		mg/kg	268	7440-43-9	
Chromium	15.4	0.50		mg/kg	268	7440-47-3	
Copper	30.0	0.50		mg/kg	268	7440-50-8	
Lead	260	0.30		mg/kg	268	7439-92-1	
Selenium	Not detected	0.40		mg/kg	268	7782-49-2	
Silver	Not detected	0.20		mg/kg	268	7440-22-4	
Zinc	208	0.50		mg/kg	268	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:01, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.261	0.050		mg/kg	70	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 21:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.76 (continued)

Sample Tag: SB-26 @ 12" (1')

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 22:16, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	600	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	500	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,000	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,100	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	600	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	1,400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	900	300		ug/kg	10	85-01-8	
Pyrene	1,300	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	76.2	60-29-7	
Acetone	Not detected	2,000		ug/kg	76.2	67-64-1	
Methyl iodide	Not detected	200		ug/kg	76.2	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	76.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	76.2	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	76.2	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	76.2	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	76.2	75-71-8	
Chloromethane	Not detected	400		ug/kg	76.2	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	76.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	76.2	74-83-9	
Chloroethane	Not detected	400		ug/kg	76.2	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	76.2	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	76.2	75-35-4	
Methylene chloride	Not detected	200		ug/kg	76.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	76.2	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	76.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	76.2	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	76.2	109-99-9	
Chloroform	Not detected	80		ug/kg	76.2	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	76.2	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	76.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	76.2	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	76.2	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	76.2	56-23-5	
Benzene	Not detected	80		ug/kg	76.2	71-43-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.76 (continued)

Sample Tag: SB-26 @ 12" (1')

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichloroethane	Not detected	80		ug/kg	76.2	107-06-2	
Trichloroethene	Not detected	80		ug/kg	76.2	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	76.2	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	76.2	75-27-4	
Dibromomethane	Not detected	400		ug/kg	76.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	76.2	10061-01-5	
Toluene	Not detected	80		ug/kg	76.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	76.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	76.2	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	76.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	76.2	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	76.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	76.2	106-93-4	M
Chlorobenzene	Not detected	80		ug/kg	76.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	76.2	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	76.2	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	76.2		
o-Xylene	Not detected	80		ug/kg	76.2	95-47-6	
Styrene	Not detected	80		ug/kg	76.2	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	76.2	98-82-8	
Bromoform	Not detected	200		ug/kg	76.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	76.2	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	76.2	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	76.2	103-65-1	
Bromobenzene	Not detected	200		ug/kg	76.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	76.2	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	76.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	76.2	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	76.2	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	76.2	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	76.2	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	76.2	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	76.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	76.2	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	76.2	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	76.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	76.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	500		ug/kg	76.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	500		ug/kg	76.2	87-61-6	
Naphthalene	Not detected	400		ug/kg	76.2	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	76.2	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.77

Sample Tag: SB-26 @ 5'

Collected Date/Time: 10/08/2021 16:09

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.262/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:14, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.87	0.20		mg/kg	248	7440-38-2	
Barium	62.9	1.0		mg/kg	248	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	248	7440-43-9	
Chromium	15.2	0.50		mg/kg	248	7440-47-3	
Copper	14.4	0.50		mg/kg	248	7440-50-8	
Lead	7.42	0.30		mg/kg	248	7439-92-1	
Selenium	Not detected	0.40		mg/kg	248	7782-49-2	
Silver	Not detected	0.20		mg/kg	248	7440-22-4	
Zinc	44.2	0.50		mg/kg	248	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:03, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	63	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 21:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.77 (continued)

Sample Tag: SB-26 @ 5'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 22:39, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.9	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.9	109-99-9	
Chloroform	Not detected	60		ug/kg	60.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.9	56-23-5	
Benzene	Not detected	60		ug/kg	60.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.9	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.77 (continued)

Sample Tag: SB-26 @ 5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	60		ug/kg	60.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-01-5	
Toluene	Not detected	60		ug/kg	60.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.9		
o-Xylene	Not detected	60		ug/kg	60.9	95-47-6	
Styrene	Not detected	60		ug/kg	60.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.9	98-82-8	
Bromoform	Not detected	100		ug/kg	60.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.9	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.78

Sample Tag: SB-26 @ 12'

Collected Date/Time: 10/08/2021 16:11

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.79

Sample Tag: SB-27 @ 2'

Collected Date/Time: 10/08/2021 16:15

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.645/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:16, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.25	0.20		mg/kg	268	7440-38-2	
Barium	90.1	1.0		mg/kg	268	7440-39-3	
Cadmium	0.49	0.20		mg/kg	268	7440-43-9	
Chromium	13.5	0.50		mg/kg	268	7440-47-3	
Copper	15.1	0.50		mg/kg	268	7440-50-8	
Lead	226	0.30		mg/kg	268	7439-92-1	
Selenium	Not detected	0.40		mg/kg	268	7782-49-2	
Silver	Not detected	0.20		mg/kg	268	7440-22-4	
Zinc	130	0.50		mg/kg	268	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:05, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.138	0.050		mg/kg	63	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 21:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.79 (continued)

Sample Tag: SB-27 @ 2'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 23:01, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	400	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	400	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:49, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.1	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.1	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.1	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.1	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.1	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.1	109-99-9	
Chloroform	Not detected	70		ug/kg	67.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.1	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.1	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.1	56-23-5	
Benzene	Not detected	70		ug/kg	67.1	71-43-2	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.79 (continued)

Sample Tag: SB-27 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 16:49, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichloroethane	Not detected	70		ug/kg	67.1	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.1	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.1	10061-01-5	
Toluene	Not detected	70		ug/kg	67.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.1	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.1	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	67.1	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.1	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.1	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.1		
o-Xylene	Not detected	70		ug/kg	67.1	95-47-6	
Styrene	Not detected	70		ug/kg	67.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.1	98-82-8	
Bromoform	Not detected	100		ug/kg	67.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.1	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.1	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.1	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.1	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	67.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	67.1	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.1	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.1	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.80

Sample Tag: SB-27 @ 4.5'

Collected Date/Time: 10/08/2021 16:21

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/13/21 16:00	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.141/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:18, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	1.94	0.20		mg/kg	251	7440-38-2	
Barium	49.9	1.0		mg/kg	251	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	251	7440-43-9	
Chromium	15.3	0.50		mg/kg	251	7440-47-3	
Copper	12.3	0.50		mg/kg	251	7440-50-8	
Lead	8.06	0.30		mg/kg	251	7439-92-1	
Selenium	Not detected	0.40		mg/kg	251	7782-49-2	
Silver	Not detected	0.20		mg/kg	251	7440-22-4	
Zinc	37.6	0.50		mg/kg	251	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:07, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	65	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/13/21 21:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.80 (continued)

Sample Tag: SB-27 @ 4.5'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 23:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.6	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.6	109-99-9	
Chloroform	Not detected	60		ug/kg	61.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.6	56-23-5	
Benzene	Not detected	60		ug/kg	61.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.6	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.80 (continued)

Sample Tag: SB-27 @ 4.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	60		ug/kg	61.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-01-5	
Toluene	Not detected	60		ug/kg	61.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.6	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.6		
o-Xylene	Not detected	60		ug/kg	61.6	95-47-6	
Styrene	Not detected	60		ug/kg	61.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.6	98-82-8	
Bromoform	Not detected	100		ug/kg	61.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.6	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.81

Sample Tag: SB-27 @ 12'

Collected Date/Time: 10/08/2021 16:23

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.82

Sample Tag: SB-28 @ 2'

Collected Date/Time: 10/08/2021 16:35

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/14/21 15:30	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	10.016/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:20, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	3.74	0.20		mg/kg	231	7440-38-2	
Barium	31.4	1.0		mg/kg	231	7440-39-3	
Cadmium	0.22	0.20		mg/kg	231	7440-43-9	
Chromium	10.0	0.50		mg/kg	231	7440-47-3	
Copper	14.3	0.50		mg/kg	231	7440-50-8	
Lead	20.9	0.30		mg/kg	231	7439-92-1	
Selenium	Not detected	0.40		mg/kg	231	7782-49-2	
Silver	Not detected	0.20		mg/kg	231	7440-22-4	
Zinc	47.9	0.50		mg/kg	231	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:08, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.074	0.050		mg/kg	56	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/21 12:48, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	1	12674-11-2	
PCB-1242	Not detected	330		ug/kg	1	53469-21-9	
PCB-1221	Not detected	330		ug/kg	1	11104-28-2	
PCB-1232	Not detected	330		ug/kg	1	11141-16-5	
PCB-1248	Not detected	330		ug/kg	1	12672-29-6	
PCB-1254	Not detected	330		ug/kg	1	11097-69-1	
PCB-1260	Not detected	330		ug/kg	1	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.82 (continued)

Sample Tag: SB-28 @ 2'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/21/21 23:45, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.8	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	59.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	59.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.8	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.8	109-99-9	
Chloroform	Not detected	60		ug/kg	59.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.8	56-23-5	
Benzene	Not detected	60		ug/kg	59.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.8	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.82 (continued)

Sample Tag: SB-28 @ 2'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	60		ug/kg	59.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.8	10061-01-5	
Toluene	Not detected	60		ug/kg	59.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.8	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59.8		
o-Xylene	Not detected	60		ug/kg	59.8	95-47-6	
Styrene	Not detected	60		ug/kg	59.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59.8	98-82-8	
Bromoform	Not detected	100		ug/kg	59.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	59.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.83

Sample Tag: SB-28 @ 4.5'

Collected Date/Time: 10/08/2021 16:39

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
Extraction, PCB*	Completed	SW3546	10/14/21 15:30	JW	
PNA Extraction*	Completed	SW3546	10/12/21 14:00	JW	
Sample wt. (g) / Methanol (ml)*	9.139/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: PFD

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:21, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	5.58	0.20		mg/kg	277	7440-38-2	
Barium	58.9	1.0		mg/kg	277	7440-39-3	
Cadmium	Not detected	0.20		mg/kg	277	7440-43-9	
Chromium	17.2	0.50		mg/kg	277	7440-47-3	
Copper	16.0	0.50		mg/kg	277	7440-50-8	
Lead	17.2	0.30		mg/kg	277	7439-92-1	
Selenium	Not detected	0.40		mg/kg	277	7782-49-2	
Silver	Not detected	0.20		mg/kg	277	7440-22-4	
Zinc	56.3	0.50		mg/kg	277	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:10, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.050		mg/kg	73	7439-97-6	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/21 13:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	10	12674-11-2	
PCB-1242	Not detected	330		ug/kg	10	53469-21-9	
PCB-1221	Not detected	330		ug/kg	10	11104-28-2	
PCB-1232	Not detected	330		ug/kg	10	11141-16-5	
PCB-1248	Not detected	330		ug/kg	10	12672-29-6	
PCB-1254	Not detected	330		ug/kg	10	11097-69-1	
PCB-1260	Not detected	330		ug/kg	10	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S29183.83 (continued)

Sample Tag: SB-28 @ 4.5'

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/22/21 00:07, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	71.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71.8	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	71.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	71.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	71.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71.8	109-99-9	
Chloroform	Not detected	70		ug/kg	71.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71.8	56-23-5	
Benzene	Not detected	70		ug/kg	71.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71.8	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S29183.83 (continued)

Sample Tag: SB-28 @ 4.5'

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 17:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	70		ug/kg	71.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-01-5	
Toluene	Not detected	70		ug/kg	71.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	71.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	71.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	71.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	71.8		
o-Xylene	Not detected	70		ug/kg	71.8	95-47-6	
Styrene	Not detected	70		ug/kg	71.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	71.8	98-82-8	
Bromoform	Not detected	100		ug/kg	71.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	71.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	71.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	71.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	71.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	71.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	71.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	71.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	71.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	71.8	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.84

Sample Tag: SB-28 @ 12'

Collected Date/Time: 10/08/2021 16:46

Matrix: Soil

COC Reference: 144690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR

Other / Misc.

Method: , Run Date: 10/12/21 08:44, Analyst: SRS

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		



Analytical Laboratory Report

Lab Sample ID: S29183.85

Sample Tag: Dup-1

Collected Date/Time: 10/08/2021 00:01

Matrix: Soil

COC Reference: 144691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 15:30	JW	
Sample wt. (g) / Methanol (ml)*	10.461/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: BJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:23, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	8.94	0.20		mg/kg	280	7440-38-2	
Barium	197	1.0		mg/kg	280	7440-39-3	
Cadmium	1.42	0.20		mg/kg	280	7440-43-9	
Chromium	14.5	0.50		mg/kg	280	7440-47-3	
Copper	42.8	0.50		mg/kg	280	7440-50-8	
Lead	282	0.30		mg/kg	280	7439-92-1	
Selenium	Not detected	0.40		mg/kg	280	7782-49-2	
Silver	Not detected	0.20		mg/kg	280	7440-22-4	
Zinc	335	0.50		mg/kg	280	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:12, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.328	0.050		mg/kg	64	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/13/21 06:23, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	900	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	900	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,800	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	2,000	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	300	300		ug/kg	10	191-24-2	
Chrysene	1,000	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.85 (continued)

Sample Tag: Dup-1

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/13/21 06:23, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	1,900	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	300	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	900	300		ug/kg	10	85-01-8	
Pyrene	1,800	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:20, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.7	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.7	109-99-9	
Chloroform	Not detected	60		ug/kg	63.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.7	56-23-5	
Benzene	Not detected	60		ug/kg	63.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-01-5	
Toluene	Not detected	60		ug/kg	63.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.7	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.85 (continued)

Sample Tag: Dup-1

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:20, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	63.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.7		
o-Xylene	Not detected	60		ug/kg	63.7	95-47-6	
Styrene	Not detected	60		ug/kg	63.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.7	98-82-8	
Bromoform	Not detected	100		ug/kg	63.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.7	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S29183.86

Sample Tag: Dup-2

Collected Date/Time: 10/08/2021 00:01

Matrix: Soil

COC Reference: 144691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	2.6	IR
1	40ml Glass	MeOH	Yes	2.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	10/18/21 10:00	JRH	
PNA Extraction*	Completed	SW3546	10/12/21 15:30	JW	
Sample wt. (g) / Methanol (ml)*	9.740/10	SW5035A	10/12/21 15:45	REC	
Mercury Digestion	Completed	SW7471B	10/18/21 09:45	JRH	

Inorganics

Method: SM2540B, Run Date: 10/13/21 18:35, Analyst: BJB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Metals

Method: SW6020A, Run Date: 10/18/21 13:25, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	2.58	0.20		mg/kg	245	7440-38-2	
Barium	81.2	1.0		mg/kg	245	7440-39-3	
Cadmium	0.41	0.20		mg/kg	245	7440-43-9	
Chromium	8.87	0.50		mg/kg	245	7440-47-3	
Copper	13.5	0.50		mg/kg	245	7440-50-8	
Lead	127	0.30		mg/kg	245	7439-92-1	
Selenium	Not detected	0.40		mg/kg	245	7782-49-2	
Silver	Not detected	0.20		mg/kg	245	7440-22-4	
Zinc	94.5	0.50		mg/kg	245	7440-66-6	

Method: SW7471B, Run Date: 10/18/21 15:15, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	0.170	0.050		mg/kg	63	7439-97-6	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/13/21 06:06, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	500	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	900	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	700	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,400	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,600	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	900	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



Analytical Laboratory Report

Lab Sample ID: S29183.86 (continued)

Sample Tag: Dup-2

Polynuclear Aromatics, Method: SW8270D, Run Date: 10/13/21 06:06, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	2,100	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	1,900	300		ug/kg	10	85-01-8	
Pyrene	1,900	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.2	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.2	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.2	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.2	109-99-9	
Chloroform	Not detected	70		ug/kg	65.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.2	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.2	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.2	56-23-5	
Benzene	Not detected	70		ug/kg	65.2	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.2	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.2	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-01-5	
Toluene	Not detected	70		ug/kg	65.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.2	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.2	124-48-1	



Analytical Laboratory Report

Lab Sample ID: S29183.86 (continued)

Sample Tag: Dup-2

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 10/14/21 18:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	65.2	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	65.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.2	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.2		
o-Xylene	Not detected	70		ug/kg	65.2	95-47-6	
Styrene	Not detected	70		ug/kg	65.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.2	98-82-8	
Bromoform	Not detected	100		ug/kg	65.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.2	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.2	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.2	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.2	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.2	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID:S29183

Client:ESGPW (Grosse Pointe Woods Environmental Service)

Project: Brush Park Apartments

Submitted: 10/11/2021 15:40 Login User: MMC

Attention: Steven Guyot

Address: ESGPW LLC
18640 Mack Avenue No. 1029
Grosse Pointe, MI 48236

Phone: 734-649-9681 FAX:

Email: skguyot@gmail.com

Selection	Description	Note
Sample Receiving		
01.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # IR 2.6
02.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Do water VOC or TOX bottles contain headspace

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____



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C.O.C. PAGE # 2 OF 8 140900

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Guyot
 COMPANY: ESBRW, LLC
 ADDRESS: 18640 Mant Avenue, No 1029
 CITY: Crooze Point STATE: MI ZIP CODE: 49236
 PHONE NO.: 734-649-9681 FAX NO.: _____ P.O. NO.: 21-082
 E-MAIL ADDRESS: SKGuyot@gmail.com QUOTE NO.: _____

CONTACT NAME: _____ SAME
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Brush Park Apartments SAMPLER(S) PLEASE PRINT/SIGN NAME: Steve Guyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 MeOH	VOL.	ANAS	Certifications	Project Locations	Special Instructions
	DATE	TIME																
29183.13	10/1/21	8:45	SB-5 @ 2'	S	2						X		X	X	X			
.14		9:01	SB-5 @ 4'	S	2						X		X	X	X			
.15		9:10	SB-5 @ 12'	S	1	X							X					HOLD
.16		9:15	SB-6 @ 1'	S	2						X		X	X	X			
.17		9:20	SB-6 @ 5'	S	2						X		X	X	X			
.18		9:27	SB-6 @ 12'	S	1	X							X					HOLD
.19		9:35	SB-7 @ 1'	S	2						X		X	X	X			
.20		9:41	SB-7 @ 6'	S	2						X		X	X	X			
.21		9:45	SB-7 @ 12'	S	1	X							X					HOLD
.22		9:49	SB-8 @ 2'	S	2						X		X	X	X			
.23		10:01	SB-8 @ 5'	S	2						X		X	X	X			
.24	10/1/21	10:15	SB-8 @ 12'	S	1	X							X					HOLD

RELINQUISHED BY: SG DATE: 10/1/21 TIME: _____
 RECEIVED BY: BB DATE: 10/1/21 TIME: 1400
 RELINQUISHED BY: BB DATE: 10/1/21 TIME: 1540
 RECEIVED BY: M Chaco DATE: 10/1/21 TIME: 1540

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL 2.6
 SEAL NO. SEAL INTACT YES NO INITIALS _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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Laboratories, Inc.

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C.O.C. PAGE # 3 OF 8 140901

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Steve Guyot
 COMPANY ES GPW, LLC
 ADDRESS 18640 Mack Ave
 CITY Grosse Pointe STATE MI ZIP CODE 49236
 PHONE NO. 734.649.9681 FAX NO. _____
 P.O. NO. 21-082 QUOTE NO. _____
 E-MAIL ADDRESS SKguyot@esgpw.com

CONTACT NAME _____ SAME
 COMPANY _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____
 PHONE NO. _____ E-MAIL ADDRESS _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Brook Park Apartments SAMPLER(S) PLEASE PRINT/SIGN NAME Steve Guyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 Metals	VOL	PNA							
	DATE	TIME																				
29183.25	10/14/21	10:25	SB-9 @ 2'	S	2						X		X	X	X							
.26	10/14/21	10:31	SB-9 @ 5'	S	2						X		X	X	X							
.27	10/14/21	10:37	SB-9 @ 12'	S	1	X							X									HOLD
.28	10/14/21	10:45	SB-10 @ 2'	S	2						X		X	X	X							
.29	10/14/21	10:51	SB-10 @ 5'	S	2						X		X	X	X							
.30	10/14/21	10:57	SB-10 @ 12'	S	1	X							X									HOLD
.31	10/14/21	11:10	SB-11 @ 3'	S	2						X		X	X	X							
.32	10/14/21	11:14	SB-11 @ 5'	S	2						X		X	X	X							
.33	10/14/21	11:17	SB-11 @ 12'	S	1	X							X									HOLD
.34	10/14/21	11:23	SB-12 @ 2'	S	2						X		X	X	X							
.35	10/14/21	11:31	SB-12 @ 5'	S	2						X		X	X	X							
.36	10/14/21	11:37	SB-12 @ 12'	S	1	X							X									HOLD

RELINQUISHED BY: [Signature] DATE 10/14/21 TIME _____
 RECEIVED BY: [Signature] DATE 10/14/21 TIME 11:00
 RELINQUISHED BY: [Signature] DATE 10/14/21 TIME 15:40
 RECEIVED BY: [Signature] DATE 10/14/21 TIME 15:40

RELINQUISHED BY: _____ DATE _____ TIME _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____
 NOTES: _____ TEMP. ON ARRIVAL 2.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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C.O.C. PAGE # 7 OF 8 140902

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Guyot
 COMPANY: ESGPW, LLC
 ADDRESS: 18640 Mauve Ave
 CITY: Grosse Pointe STATE: MI ZIP CODE: 49236
 PHONE NO.: 734.649.9681 FAX NO.: _____ P.O. NO.: _____
 E-MAIL ADDRESS: SKGuyot@gmail.com QUOTE NO.: 21-082

CONTACT NAME: SAME
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Brook Park Apartments SAMPLER(S) - PLEASE PRINT/SIGN NAME: Steve Guyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

- Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 Metal			VOCs			PNAAs				
	DATE	TIME																					
29183.37	10/14/21	11:51	SB-13 @ 2'	S	2						X			X	X	X							
.38		11:58	SB-13 @ 4'	S	2						X			X	X	X							
.39		12:10	SB-13 @ 12'	S	1	X								X									HOLD
.40		12:45	SB-14 @ 2'	S	2						X			X	X	X							
.41		12:28	SB-14 @ 4'	S	2						X			X	X	X							
.42		1:10	SB-14 @ 12'	S	1	X								X									HOLD
.43		1:20	SB-15 @ 2'	S	2						X			X	X	X							
.44		1:23	SB-15 @ 5'	S	2						X			X	X	X							
.45		1:27	SB-15 @ 12'	S	1	X								X									HOLD
.46		1:31	SB-16 @ 2'	S	2						X			X	X	X							
.47		1:36	SB-16 @ 5'	S	2						X			X	X	X							
.48	10/18/21	1:39	SD-16 @ 12'	S	1	X								X									HOLD

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: BB DATE: 10/11/21 TIME: 1400
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: M. Calvert DATE: 10/11/21 TIME: 1540
 SIGNATURE/ORGANIZATION: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL 2.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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C.O.C. PAGE # 5 OF 8 140903

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Goyot
 COMPANY: ESGPW LLC
 ADDRESS: 18640 Mack Avenue
 CITY: Grosse Pointe STATE: MI ZIP CODE: 49236
 PHONE NO.: 313.649.9681 FAX NO.: 313.649.9681 P.O. NO.: 21-082
 E-MAIL ADDRESS: SK Goyot QUOTE NO.:

CONTACT NAME: [Signature]
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Brush Park Apartments SAMPLER(S) PLEASE PRINT/SIGN NAME: Steve Goyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 mercur DNA VOCs							
	DATE	TIME																		
29183.49	10/13/21	1:40	SB-16 e 2'	S	2					X			X	X	X					
.50		1:45	SB-17 e 4.5'	S	2					X			X	X	X					
.51		1:51	SB-17 e 12'	S	1	X							X							HOLD
.52		1:57	SB-18 e 2'	S	2					X			X	X	X					
.53		2:01	SB-18 e 5'	S	2					X			X	X	X					
.54		2:03	SB-18 e 12'	S	1	X							X							HOLD
.55		2:07	SB-19 e 3'	S	2					X			X	X	X					
.56		2:11	SB-19 e 5'	S	2					X			X	X	X					
.57		2:17	SB-19 e 12'	S	1	X							X							HOLD
.58		2:24	SB-20 e 3.5'	S	2					X			X	X	X					
.59		2:31	SB-20 e 5'	S	2					X			X	X	X					
.60	10/14/21	2:37	SB-20 e 12'	S	1	X							X							HOLD

RELINQUISHED BY: [Signature] DATE: 10/11/21 TIME: 1540
 SIGNATURE/Organization: [Signature]
 RECEIVED BY: [Signature] DATE: 10/11/21 TIME: 1540
 SIGNATURE/Organization: [Signature]
 RELINQUISHED BY: [Signature] DATE: 10/11/21 TIME: 1540
 SIGNATURE/Organization: [Signature]
 RECEIVED BY: [Signature] DATE: 10/11/21 TIME: 1540
 SIGNATURE/Organization: [Signature]

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/Organization: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/Organization: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL 2.6
 SEAL NO. SEAL INTACT YES NO INITIALS _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Guyot
 COMPANY: ESGPW, LLC
 ADDRESS: 18640 Mark Ave
 CITY: Grosse Pointe STATE: MI ZIP CODE: 49236
 PHONE NO.: 734-649-9681 FAX NO.: _____ P.O. NO.: 21-032
 E-MAIL ADDRESS: SKguyot@gspt.com QUOTE NO.: _____

CONTACT NAME: _____ SAME
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ E-MAIL ADDRESS: _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Bruce Park Apartments SAMPLER(S) - PLEASE PRINT/SIGN NAME: Steve Guyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 metal PANA VOC	Special Instructions	
	DATE	TIME													
29183.61	10/18/21	2:45	SB 21 @ 30'	S 2						X			X X X		
.62		2:49	SB 21 @ 5'	S 2						X			X X X		
.63		2:59	SB 21 @ 12'	S 1	X								X		HOLD
.64		3:11	SB 22 @ 1.5'	S 2						X			X X X		
.65		3:15	SB-22 @ 4'	S 2						X			X X X		
.66		3:19	SB-22 @ 12'	S 1	X								X		HOLD
.67		3:23	SB-23 @ 0.5'	S 2						X			X X X		
.68		3:37	SB-23 @ 5'	S 2						X			X X X		
.69		3:31	SB-23 @ 12'	S 1	X								X		HOLD
.70		3:45	SB-24 @ 8"	S 2						X			X X X		
.71		3:47	SB-24 @ 5'	S 2						X			X X X		
.72	10/14/21	3:49	SB-24 @ 12'	S 1	X								X		HOLD

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: [Signature]
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: [Signature]
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: [Signature]

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL 2.6



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C.O.C. PAGE # 7 OF 8 144690

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Steve Guyot
 COMPANY ESGPW LLC
 ADDRESS 18640 Mack Ave
 CITY Grosse Pointe STATE MI ZIP CODE 49236
 PHONE NO. 764.679.9681 FAX NO. _____ P.O. NO. 21-082
 E-MAIL ADDRESS SKguyot@gmail.com QUOTE NO. _____

CONTACT NAME _____ SAME
 COMPANY _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____
 PHONE NO. _____ E-MAIL ADDRESS _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME Brush Park Apartment SAMPLER(S) - PLEASE PRINT/SIGN NAME Steve Guyot
 TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

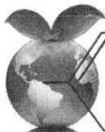
Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 Metal	PbAs	PbB	VOC
	DATE	TIME														
29183.73	10/12/21	3:51	SB 25 e 12" (1')	S	2						X		X	X	X	
74		3:55	SB 25 e 4.5'	S	2						X		X	X	X	
75		3:59	SB 25 e 12'	S	1	X							X			
76		4:05	SB 26 e 12" (1')	S	2						X		X	X	X	
77		4:09	SB 26 e 5'	S	2						X		X	X	X	
78		4:11	SB 26 e 12'	S	1	X							X			
79		4:15	SB 27 e 2'	S	2						X		X	X	X	
80		4:21	SB 27 e 4.5'	S	2						X		X	X	X	
81		4:23	SD 27 e 12'	S	1	X							X			
82		4:35	SB 28 e 2'	S	2						X		X	X	X	
83		4:39	SB 28 e 4.5'	S	2						X		X	X	X	
84	10/18/21	4:46	SB 28 e 12'	S	1	X							X			

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/Organization _____
 RECEIVED BY: BB DATE 10/11/21 TIME 1400
 SIGNATURE/Organization _____
 RECEIVED BY: MB DATE 10/11/21 TIME 1540
 SIGNATURE/Organization _____

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/Organization _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/Organization _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: TEMP. ON ARRIVAL 2.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Merit Laboratories, Inc.

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www.meritlabs.com

C.O.C. PAGE # 8 OF 8 144691

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Guyot
 COMPANY: ESGPW LLL
 ADDRESS: 18640 Mack Ave
 CITY: Grosse Pointe, STATE: MI ZIP CODE: 48226
 PHONE NO.: 734.649.968 FAX NO.: P.O. NO.: 21-082
 E-MAIL ADDRESS: skguyot@gnat.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: Brush Park Apartments SAMPLER(S) - PLEASE PRINT/SIGN NAME: Steve Guyot
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other
 Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	10 metals	VOC	PMA
	DATE	TIME													
29183.85	10/10/21		Dup-1	S	2						X		X	X	X
.86	10/10/21		Dup-2	S	2						X		X	X	X

RELINQUISHED BY: *[Signature]* DATE: 10/11/21 TIME: 1400
 RECEIVED BY: *[Signature]* DATE: 10/11/21 TIME: 1540
 RELINQUISHED BY: *[Signature]* DATE: 10/11/21 TIME: 1540
 RECEIVED BY: *[Signature]* DATE: 10/11/21 TIME: 1540

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 SEAL NO. SEAL INTACT YES NO INITIALS
 SEAL NO. SEAL INTACT YES NO INITIALS
 NOTES: TEMP. ON ARRIVAL 2.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S29179.01(01)
Generated on 10/22/2021

Report to

Attention: Steven Guyot
ESGPW LLC
18640 Mack Ave. No. 1029
Grosse Pointe, MI 48236

Phone: 734-649-9681 FAX:
Email: skguyot@gmail.com

Additional Contacts: Doug Ervin

Report produced by

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2680 East Lansing Drive
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Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S29179.01-S29179.10
Project: Brush Park Apartments
Collected Date(s): 10/09/2021
Submitted Date/Time: 10/11/2021 15:40
Sampled by: Steve Guyot
P.O. #: 20-082

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
N/A	Not Applicable
TO-15	EPA TO-15 Second Edition January 1999



Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S29179.01	SB14 SG-2	Air	10/09/21 09:02 - 10/09/21 09:22
S29179.02	SB13 SG-1	Air	10/09/21 09:50 - 10/09/21 10:21
S29179.03	SB15 SG-3	Air	10/09/21 10:21 - 10/09/21 10:45
S29179.04	SB16 SG-4	Air	10/09/21 10:47 - 10/09/21 11:11
S29179.05	SB18 SG-5	Air	10/09/21 11:15 - 10/09/21 11:23
S29179.06	SB17 SG-6	Air	10/09/21 11:21 - 10/09/21 11:44
S29179.07	SB25 SG-7	Air	10/09/21 11:34 - 10/09/21 11:58
S29179.08	SB26 SG-8	Air	10/09/21 11:55 - 10/09/21 12:21
S29179.09	SB27 SG-9	Air	10/09/21 12:36 - 10/09/21 13:01
S29179.10	SB28 SG-10	Air	10/09/21 13:30 - 10/09/21 13:50



Analytical Laboratory Report

Lab Sample ID: S29179.01

Sample Tag: SB14 SG-2

Collected Date/Time: 10/09/2021 09:02 - 10/09/2021 09:22

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 02:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	30	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	24	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	20	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	23	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	44	25		ppbv	10	64-17-5	
Ethylbenzene	6	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.01 (continued)

Sample Tag: SB14 SG-2

TO-15, Method: TO-15, Run Date: 10/22/21 02:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	16	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	59	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	200	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	7	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	7	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	74	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	21	4		ppbv	10		
o-Xylene	8	2		ppbv	10	95-47-6	
Total Xylenes	29	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 02:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	71	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	77	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	62	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.01 (continued)

Sample Tag: SB14 SG-2

TO-15, Method: TO-15, Run Date: 10/22/21 02:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	79	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	83	47		ug/m3	10	64-17-5	
Ethylbenzene	26	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	66	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	210	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	340	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	34	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	33	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	280	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.01 (continued)

Sample Tag: SB14 SG-2

TO-15, Method: TO-15, Run Date: 10/22/21 02:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	91	17		ug/m3	10		
o-Xylene	35	8.7		ug/m3	10	95-47-6	
Total Xylenes	130	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.02

Sample Tag: SB13 SG-1

Collected Date/Time: 10/09/2021 09:50 - 10/09/2021 10:21

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 03:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	15	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	34	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	18	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	42	25		ppbv	10	64-17-5	
Ethylbenzene	6	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	2	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.02 (continued)

Sample Tag: SB13 SG-1

TO-15, Method: TO-15, Run Date: 10/22/21 03:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	18	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	65	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	300	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	8	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	2	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	12	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	47	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	23	4		ppbv	10		
o-Xylene	9	2		ppbv	10	95-47-6	
Total Xylenes	31	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 03:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	48	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	110	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.02 (continued)

Sample Tag: SB13 SG-1

TO-15, Method: TO-15, Run Date: 10/22/21 03:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	62	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	79	47		ug/m3	10	64-17-5	
Ethylbenzene	26	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	9.8	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	74	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	230	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	520	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	39	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	9.8	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	56	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	180	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.02 (continued)

Sample Tag: SB13 SG-1

TO-15, Method: TO-15, Run Date: 10/22/21 03:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	100	17		ug/m3	10		
o-Xylene	39	8.7		ug/m3	10	95-47-6	
Total Xylenes	130	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.03

Sample Tag: SB15 SG-3

Collected Date/Time: 10/09/2021 10:21 - 10/09/2021 10:45

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 03:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	16	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	15	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	13	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	38	25		ppbv	10	64-17-5	
Ethylbenzene	5	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.03 (continued)

Sample Tag: SB15 SG-3

TO-15, Method: TO-15, Run Date: 10/22/21 03:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	13	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	70	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	100	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	6	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	21	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	41	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	18	4		ppbv	10		
o-Xylene	7	2		ppbv	10	95-47-6	
Total Xylenes	24	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 03:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	51	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	47	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.03 (continued)

Sample Tag: SB15 SG-3

TO-15, Method: TO-15, Run Date: 10/22/21 03:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	45	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	72	47		ug/m3	10	64-17-5	
Ethylbenzene	22	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	53	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	250	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	170	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	29	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	98	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	150	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.03 (continued)

Sample Tag: SB15 SG-3

TO-15, Method: TO-15, Run Date: 10/22/21 03:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	78	17		ug/m3	10		
o-Xylene	30	8.7		ug/m3	10	95-47-6	
Total Xylenes	100	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.04

Sample Tag: SB16 SG-4

Collected Date/Time: 10/09/2021 10:47 - 10/09/2021 11:11

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 04:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	30	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	6	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	Not detected	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	5	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	87	25		ppbv	10	64-17-5	
Ethylbenzene	4	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.04 (continued)

Sample Tag: SB16 SG-4

TO-15, Method: TO-15, Run Date: 10/22/21 04:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	5	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	15	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	Not detected	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	4	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	10	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	23	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	12	4		ppbv	10		
o-Xylene	5	2		ppbv	10	95-47-6	
Total Xylenes	17	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 04:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	71	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	19	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	Not detected	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.04 (continued)

Sample Tag: SB16 SG-4

TO-15, Method: TO-15, Run Date: 10/22/21 04:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	17	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	160	47		ug/m3	10	64-17-5	
Ethylbenzene	17	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	20	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	53	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	Not detected	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	20	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	47	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	87	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.04 (continued)

Sample Tag: SB16 SG-4

TO-15, Method: TO-15, Run Date: 10/22/21 04:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	52	17		ug/m3	10		
o-Xylene	22	8.7		ug/m3	10	95-47-6	
Total Xylenes	74	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.05

Sample Tag: SB18 SG-5

Collected Date/Time: 10/09/2021 11:15 - 10/09/2021 11:23

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 04:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	40	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	9	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	Not detected	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	19	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	45	25		ppbv	10	64-17-5	
Ethylbenzene	5	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.05 (continued)

Sample Tag: SB18 SG-5

TO-15, Method: TO-15, Run Date: 10/22/21 04:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	18	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	54	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	200	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	7	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	6	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	28	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	16	4		ppbv	10		
o-Xylene	6	2		ppbv	10	95-47-6	
Total Xylenes	23	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 04:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	95	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	29	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	Not detected	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.05 (continued)

Sample Tag: SB18 SG-5

TO-15, Method: TO-15, Run Date: 10/22/21 04:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	65	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	85	47		ug/m3	10	64-17-5	
Ethylbenzene	22	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	74	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	190	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	340	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	34	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	28	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	110	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.05 (continued)

Sample Tag: SB18 SG-5

TO-15, Method: TO-15, Run Date: 10/22/21 04:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	69	17		ug/m3	10		
o-Xylene	26	8.7		ug/m3	10	95-47-6	
Total Xylenes	100	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.06

Sample Tag: SB17 SG-6

Collected Date/Time: 10/09/2021 11:21 - 10/09/2021 11:44

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 05:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	30	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	7	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	Not detected	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	5	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	47	25		ppbv	10	64-17-5	
Ethylbenzene	6	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	3	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.06 (continued)

Sample Tag: SB17 SG-6

TO-15, Method: TO-15, Run Date: 10/22/21 05:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	6	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	17	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	Not detected	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	10	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	3	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	5	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	36	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	24	4		ppbv	10		
o-Xylene	9	2		ppbv	10	95-47-6	
Total Xylenes	33	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 05:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	71	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	22	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	Not detected	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.06 (continued)

Sample Tag: SB17 SG-6

TO-15, Method: TO-15, Run Date: 10/22/21 05:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	17	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	89	47		ug/m3	10	64-17-5	
Ethylbenzene	26	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	15	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	25	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	60	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	Not detected	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	49	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	15	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	23	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	140	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.06 (continued)

Sample Tag: SB17 SG-6

TO-15, Method: TO-15, Run Date: 10/22/21 05:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	100	17		ug/m3	10		
o-Xylene	39	8.7		ug/m3	10	95-47-6	
Total Xylenes	140	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.07

Sample Tag: SB25 SG-7

Collected Date/Time: 10/09/2021 11:34 - 10/09/2021 11:58

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 05:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	100	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	10	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	34	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	5	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	47	25		ppbv	10	64-17-5	
Ethylbenzene	5	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.07 (continued)

Sample Tag: SB25 SG-7

TO-15, Method: TO-15, Run Date: 10/22/21 05:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	9	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	28	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	240	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	300	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	7	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	7	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	34	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	17	4		ppbv	10		
o-Xylene	7	2		ppbv	10	95-47-6	
Total Xylenes	24	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 05:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	240	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	32	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	110	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.07 (continued)

Sample Tag: SB25 SG-7

TO-15, Method: TO-15, Run Date: 10/22/21 05:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	17	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	89	47		ug/m3	10	64-17-5	
Ethylbenzene	22	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	37	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	99	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	590	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	520	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	34	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	33	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	130	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.07 (continued)

Sample Tag: SB25 SG-7

TO-15, Method: TO-15, Run Date: 10/22/21 05:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	74	17		ug/m3	10		
o-Xylene	30	8.7		ug/m3	10	95-47-6	
Total Xylenes	100	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.08

Sample Tag: SB26 SG-8

Collected Date/Time: 10/09/2021 11:55 - 10/09/2021 12:21

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-2	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 06:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	80	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	14	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	29	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	6	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	51	25		ppbv	10	64-17-5	
Ethylbenzene	6	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	2	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.08 (continued)

Sample Tag: SB26 SG-8

TO-15, Method: TO-15, Run Date: 10/22/21 06:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	10	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	38	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	400	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	8	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	10	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	41	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	19	4		ppbv	10		
o-Xylene	8	2		ppbv	10	95-47-6	
Total Xylenes	27	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 06:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	190	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	45	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	90	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.08 (continued)

Sample Tag: SB26 SG-8

TO-15, Method: TO-15, Run Date: 10/22/21 06:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	21	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	96	47		ug/m3	10	64-17-5	
Ethylbenzene	26	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	9.8	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	41	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	130	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	690	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	39	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	47	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	150	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.08 (continued)

Sample Tag: SB26 SG-8

TO-15, Method: TO-15, Run Date: 10/22/21 06:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	82	17		ug/m3	10		
o-Xylene	35	8.7		ug/m3	10	95-47-6	
Total Xylenes	120	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.09

Sample Tag: SB27 SG-9

Collected Date/Time: 10/09/2021 12:36 - 10/09/2021 13:01

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-4	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 06:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	50	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	9	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	45	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	11	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	56	25		ppbv	10	64-17-5	
Ethylbenzene	5	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	Not detected	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.09 (continued)

Sample Tag: SB27 SG-9

TO-15, Method: TO-15, Run Date: 10/22/21 06:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	10	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	39	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	100	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	6	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	11	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	34	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	18	4		ppbv	10		
o-Xylene	7	2		ppbv	10	95-47-6	
Total Xylenes	24	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 06:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	120	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	29	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	140	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.09 (continued)

Sample Tag: SB27 SG-9

TO-15, Method: TO-15, Run Date: 10/22/21 06:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	38	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	110	47		ug/m3	10	64-17-5	
Ethylbenzene	22	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	Not detected	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	41	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	140	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	170	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	29	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	Not detected	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	51	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	130	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.09 (continued)

Sample Tag: SB27 SG-9

TO-15, Method: TO-15, Run Date: 10/22/21 06:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	78	17		ug/m3	10		
o-Xylene	30	8.7		ug/m3	10	95-47-6	
Total Xylenes	100	26		ug/m3	10	1330-20-7	



Analytical Laboratory Report

Lab Sample ID: S29179.10

Sample Tag: SB28 SG-10

Collected Date/Time: 10/09/2021 13:30 - 10/09/2021 13:50

Matrix: Air

COC Reference: A02902

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Air Canister	None	No	RT	n/a

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Pressure check for TO-15*	-3	N/A	10/14/21 11:35	NDK	

Organics - Volatiles

TO-15, Method: TO-15, Run Date: 10/22/21 07:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	60	20		ppbv	10	67-64-1	
1,3-Butadiene	Not detected	20		ppbv	10	106-99-0	
Benzene	10	2		ppbv	10	71-43-2	
Bromodichloromethane	Not detected	2		ppbv	10	75-27-4	
Bromoform	Not detected	2		ppbv	10	75-25-2	
Bromomethane	Not detected	2		ppbv	10	74-83-9	
Vinyl bromide	Not detected	2		ppbv	10	593-60-2	
Benzyl chloride	Not detected	2		ppbv	10	100-44-7	
Carbon disulfide	Not detected	5		ppbv	10	75-15-0	
Chlorobenzene	Not detected	2		ppbv	10	108-90-7	
Chloroethane	Not detected	20		ppbv	10	75-00-3	
Chloroform	Not detected	2		ppbv	10	67-66-3	
Chloromethane	Not detected	20		ppbv	10	74-87-3	
3-Chloropropene	Not detected	20		ppbv	10	107-05-1	
2-Chlorotoluene	Not detected	2		ppbv	10	95-49-8	
Carbon tetrachloride	Not detected	2		ppbv	10	56-23-5	
Cyclohexane	12	2		ppbv	10	110-82-7	
1,1-Dichloroethane	Not detected	2		ppbv	10	75-34-3	
1,1-Dichloroethene	Not detected	2		ppbv	10	75-35-4	
1,2-Dibromoethane	Not detected	2		ppbv	10	106-93-4	
1,2-Dichloroethane	Not detected	2		ppbv	10	107-06-2	
1,2-Dichloropropane	Not detected	2		ppbv	10	78-87-5	
1,4-Dioxane	Not detected	25		ppbv	10	123-91-1	
Dichlorodifluoromethane	Not detected	2		ppbv	10	75-71-8	
Dibromochloromethane	Not detected	2		ppbv	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	2		ppbv	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	2		ppbv	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	2		ppbv	10	541-73-1	
1,2-Dichlorobenzene	Not detected	2		ppbv	10	95-50-1	
1,4-Dichlorobenzene	Not detected	2		ppbv	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	2		ppbv	10	10061-02-6	
Ethanol*	38	25		ppbv	10	64-17-5	
Ethylbenzene	5	2		ppbv	10	100-41-4	
Ethyl Acetate*	Not detected	20		ppbv	10	141-78-6	
4-Ethyltoluene	3	2		ppbv	10	622-96-8	
Freon 113	Not detected	2		ppbv	10	76-13-1	



Analytical Laboratory Report

Lab Sample ID: S29179.10 (continued)

Sample Tag: SB28 SG-10

TO-15, Method: TO-15, Run Date: 10/22/21 07:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Freon 114	Not detected	2		ppbv	10	76-14-2	
Heptane	14	2		ppbv	10	142-82-5	
Hexachlorobutadiene	Not detected	2		ppbv	10	87-68-3	
Hexane	44	2		ppbv	10	110-54-3	
2-Hexanone*	Not detected	5		ppbv	10	591-78-6	
Isopropyl Alcohol*	Not detected	20		ppbv	10	67-63-0	
Methylene chloride	Not detected	5		ppbv	10	75-09-2	
2-Butanone (MEK)	Not detected	20		ppbv	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	5		ppbv	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	2		ppbv	10	1634-04-4	
Methyl methacrylate	Not detected	2		ppbv	10	80-62-6	
Naphthalene	Not detected	2		ppbv	10	91-20-3	
Propylene*	200	100		ppbv	10	115-07-1	
Styrene	Not detected	2		ppbv	10	100-42-5	
1,1,1-Trichloroethane	Not detected	2		ppbv	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	2		ppbv	10	79-34-5	
1,1,2-Trichloroethane	Not detected	2		ppbv	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	5		ppbv	10	120-82-1	
1,2,4-Trimethylbenzene	9	2		ppbv	10	95-63-6	
1,3,5-Trimethylbenzene	2	2		ppbv	10	108-67-8	
2,2,4-Trimethylpentane	12	2		ppbv	10	540-84-1	
Tert-butyl Alcohol	Not detected	10		ppbv	10	75-65-0	
Tetrachloroethene	Not detected	2		ppbv	10	127-18-4	
Tetrahydrofuran*	Not detected	2		ppbv	10	109-99-9	
Toluene	33	2		ppbv	10	108-88-3	
Trichloroethene	Not detected	2		ppbv	10	79-01-6	
Trichlorofluoromethane	Not detected	2		ppbv	10	75-69-4	
Vinyl chloride	Not detected	2		ppbv	10	75-01-4	
Vinyl acetate	Not detected	20		ppbv	10	108-05-4	
p,m-Xylene	21	4		ppbv	10		
o-Xylene	8	2		ppbv	10	95-47-6	
Total Xylenes	29	6		ppbv	10	1330-20-7	

TO-15, Method: TO-15, Run Date: 10/22/21 07:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	140	48		ug/m3	10	67-64-1	
1,3-Butadiene	Not detected	44		ug/m3	10	106-99-0	
Benzene	32	6.4		ug/m3	10	71-43-2	
Bromodichloromethane	Not detected	13		ug/m3	10	75-27-4	
Bromoform	Not detected	21		ug/m3	10	75-25-2	
Bromomethane	Not detected	7.8		ug/m3	10	74-83-9	
Vinyl bromide	Not detected	8.7		ug/m3	10	593-60-2	
Benzyl chloride	Not detected	10		ug/m3	10	100-44-7	
Carbon disulfide	Not detected	16		ug/m3	10	75-15-0	
Chlorobenzene	Not detected	9.2		ug/m3	10	108-90-7	
Chloroethane	Not detected	53		ug/m3	10	75-00-3	
Chloroform	Not detected	9.8		ug/m3	10	67-66-3	
Chloromethane	Not detected	41		ug/m3	10	74-87-3	
3-Chloropropene	Not detected	63		ug/m3	10	107-05-1	
2-Chlorotoluene	Not detected	10		ug/m3	10	95-49-8	



Analytical Laboratory Report

Lab Sample ID: S29179.10 (continued)

Sample Tag: SB28 SG-10

TO-15, Method: TO-15, Run Date: 10/22/21 07:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	13		ug/m3	10	56-23-5	
Cyclohexane	41	6.9		ug/m3	10	110-82-7	
1,1-Dichloroethane	Not detected	8.1		ug/m3	10	75-34-3	
1,1-Dichloroethene	Not detected	7.9		ug/m3	10	75-35-4	
1,2-Dibromoethane	Not detected	15		ug/m3	10	106-93-4	
1,2-Dichloroethane	Not detected	8.1		ug/m3	10	107-06-2	
1,2-Dichloropropane	Not detected	9.2		ug/m3	10	78-87-5	
1,4-Dioxane	Not detected	90		ug/m3	10	123-91-1	
Dichlorodifluoromethane	Not detected	9.9		ug/m3	10	75-71-8	
Dibromochloromethane	Not detected	17		ug/m3	10	124-48-1	
trans-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-60-5	
cis-1,2-Dichloroethene	Not detected	7.9		ug/m3	10	156-59-2	
cis-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-01-5	
1,3-Dichlorobenzene	Not detected	12		ug/m3	10	541-73-1	
1,2-Dichlorobenzene	Not detected	12		ug/m3	10	95-50-1	
1,4-Dichlorobenzene	Not detected	12		ug/m3	10	106-46-7	
trans-1,3-Dichloropropene	Not detected	9.1		ug/m3	10	10061-02-6	
Ethanol*	72	47		ug/m3	10	64-17-5	
Ethylbenzene	22	8.7		ug/m3	10	100-41-4	
Ethyl Acetate*	Not detected	72		ug/m3	10	141-78-6	
4-Ethyltoluene	15	9.8		ug/m3	10	622-96-8	
Freon 113	Not detected	15		ug/m3	10	76-13-1	
Freon 114	Not detected	14		ug/m3	10	76-14-2	
Heptane	57	8.2		ug/m3	10	142-82-5	
Hexachlorobutadiene	Not detected	21		ug/m3	10	87-68-3	
Hexane	160	7.0		ug/m3	10	110-54-3	
2-Hexanone*	Not detected	20		ug/m3	10	591-78-6	
Isopropyl Alcohol*	Not detected	49		ug/m3	10	67-63-0	
Methylene chloride	Not detected	17		ug/m3	10	75-09-2	
2-Butanone (MEK)	Not detected	59		ug/m3	10	78-93-3	
4-Methyl-2-pentanone (MIBK)	Not detected	20		ug/m3	10	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	7.2		ug/m3	10	1634-04-4	
Methyl methacrylate	Not detected	8.2		ug/m3	10	80-62-6	
Naphthalene	Not detected	10		ug/m3	10	91-20-3	
Propylene*	340	170		ug/m3	10	115-07-1	
Styrene	Not detected	8.5		ug/m3	10	100-42-5	
1,1,1-Trichloroethane	Not detected	11		ug/m3	10	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	14		ug/m3	10	79-34-5	
1,1,2-Trichloroethane	Not detected	11		ug/m3	10	79-00-5	
1,2,4-Trichlorobenzene	Not detected	37		ug/m3	10	120-82-1	
1,2,4-Trimethylbenzene	44	9.8		ug/m3	10	95-63-6	
1,3,5-Trimethylbenzene	9.8	9.8		ug/m3	10	108-67-8	
2,2,4-Trimethylpentane	56	9.3		ug/m3	10	540-84-1	
Tert-butyl Alcohol	Not detected	30		ug/m3	10	75-65-0	
Tetrachloroethene	Not detected	14		ug/m3	10	127-18-4	
Tetrahydrofuran*	Not detected	5.9		ug/m3	10	109-99-9	
Toluene	120	7.5		ug/m3	10	108-88-3	
Trichloroethene	Not detected	11		ug/m3	10	79-01-6	
Trichlorofluoromethane	Not detected	11		ug/m3	10	75-69-4	
Vinyl chloride	Not detected	5.1		ug/m3	10	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S29179.10 (continued)

Sample Tag: SB28 SG-10

TO-15, Method: TO-15, Run Date: 10/22/21 07:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Vinyl acetate	Not detected	70		ug/m3	10	108-05-4	
p,m-Xylene	91	17		ug/m3	10		
o-Xylene	35	8.7		ug/m3	10	95-47-6	
Total Xylenes	130	26		ug/m3	10	1330-20-7	

Merit Laboratories Login Checklist

Lab Set ID:S29179

Client:ESGPW (Grosse Pointe Woods Environmental Service)

Project: Brush Park Apartments

Submitted: 10/11/2021 15:40 Login User: PFD

Attention: Steven Guyot

Address: ESGPW LLC
18640 Mack Ave. No. 1029
Grosse Pointe, MI 48236

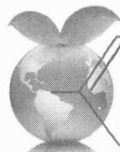
Phone: 734-649-9681 FAX:

Email: skguyot@gmail.com

Selection	Description	Note
Sample Receiving		
01.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # RT
02.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out .09 has wrong canister ID on COC
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Do water VOC or TOX bottles contain headspace

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____



Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

A 02902

REPORT TO

AIR/GAS SAMPLES CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Steve Guyot
 COMPANY: ESGWILLE
 ADDRESS: 18040 Mack Ave
 CITY: Cross Point STATE: MI ZIP CODE: 48126
 PHONE NO.: 734.649.9681 FAX NO.: P.O. NO.: 4-082
 EMAIL ADDRESS: S.Guyot@cmal.com QUOTE NO.: 2

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: EMAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: British Park Apartments SAMPLER(S) - PLEASE PRINT/SIGN NAME: Steve Guyot
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP NELAP
 DoD NPDES

Sample Type				Analyses	
Indoor Air	Ambient Air	Soil Gas	Landfill Gas	TO-15	Other (specify in notes)
		X		X	
		Y		X	
		Y		Y	
		X		X	
		X		X	
		X		Y	
		X		X	
		Y		X	
		X		X	
		X		X	

MERIT LAB NO. FOR LAB USE ONLY	SAMPLE TAG IDENTIFICATION-DESCRIPTION	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID
29179.01	SB14 SG-2	10/9/21	9:02	9:22	28	2	297	12422
.02	SB13 SG-1	11	9:50	10:21	29	3	47	42225
.03	SB15 SG-3	10.9.21	9:21	10:45	29	2	154	35561
.04	SB16 SG-4	10.9.21	10:47	11:11	30	3	156	42275
.05	SB18 SG-5	10.9.21	11:15	11:23	29	3	210	25393
.06	SB17 SG-6	10.9.21	11:21	11:44	28	2	244	12415
.07	SB25 SG-7	11:39	11:58	12:01	29	1	189	42284
.08	SB26 SG-8	11:55	12:21	12:21	28	3	269	42287
.09	SB27 SG-9	12:36	1:01	1:01	31	3	10	43222
.10	SB28 SG-10	10.9.21	1:30	1:50	30	2	129	42329

Temperature (Fahrenheit)			Pressure (inches of Hg)			Notes	
Interior	Ambient	Notes	Interior	Ambient	Notes		
Start			Start				Shroud removed
Stop			Stop				

RELINQUISHED BY: [Signature] DATE: 10/11/21 TIME: 1400
 RECEIVED BY: [Signature] DATE: 10/11/21 TIME: 1540
 RELINQUISHED BY: [Signature] DATE: 10/11/21 TIME: 1540
 RECEIVED BY: [Signature] DATE: 10/11/21 TIME: 1540

RELINQUISHED BY: [Signature] DATE: TIME:
 RECEIVED BY: [Signature] DATE: TIME:
 SEAL NO. SEAL INTACT YES NO INITIALS
 SEAL NO. SEAL INTACT YES NO INITIALS
 NOTES: TEMP. ON ARRIVAL: RT



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
WARREN DISTRICT OFFICE



LIESL EICHLER CLARK
DIRECTOR

February 2, 2022

MEMO

DELIVERED VIA ELECTRONIC MAIL 2/2/2022

TO: Steve Guyot, ESGPW

FROM: Jeanne Schlaufman, EQS
Remediation and Redevelopment Division
Southeast Michigan District

SUBJECT: Request for Site-Specific Criteria for:
Proposed Brush Park Apartments
269 Winder Street @ Brush Street, Detroit, Wayne County
Site ID # 82008686

The Department of Environment, Great Lakes, and Energy (EGLE) has developed site-specific volatilization to indoor air criteria for the subject site in response to your request received January 20, 2022.

Inserted within the body of this memo are tables that contain site-specific volatilization to indoor air criteria (SSVIAC) under Part 201 of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended, which represent EGLE's determination of values that reflect best available information regarding the toxicity and exposure risks posed by the hazardous substances present at the Proposed Brush Park Apartments Development that is proposed to be constructed over several parcel at corner of Winder and Brush Streets located in Detroit, Wayne County. These values may be used as SSVIAC without further documentation to evaluate the volatilization to indoor air pathway (VIAP). If representative groundwater and soil sampling indicate that site concentrations are below unrestricted residential SSVIAC, there is not a vapor source and there is not a requirement to evaluate the migration of vapors with vapor sampling. Exceedance of unrestricted residential SSVIAC for any media necessitates a representative vapor investigation to evaluate the VIAP. Other values may be developed by a person consistent with the statutory provisions for development of site-specific criteria or screening levels and provided for EGLE review and approval.

Exceedances of these residential SSVIAC will require restrictions or institutional controls for closure or aid in the determination of off-site migration.

The results of this evaluation are as follows:

Table 1. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **restricted** site-specific criteria that apply to a residential structure that has **slab-on-grade foundation and an elevator shaft extending four feet below grade**, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**

CAS#	Hazardous Substance	Groundwater Not In Contact (GWNIC) (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
83329	Acenaphthene	3,900 (S) sol	2.1E+05 nc	7,300 nc
208968	Acenaphthylene	65 (CC) nc	DATA	7,300 nc
994058	t-Amyl methyl ether (TAME)	3,100 nc	34 (M) nc	2,200 nc
120127	Anthracene	43 (S) sol	1.3E+07 nc	35,000 nc
7440382	Arsenic	NA	NA	NA
71432	Benzene	29 ca	1.7 (M) ca	110 ca
56553	Benzo(a)anthracene	9.4 (S) (MM) sol	1.6E+05 (MM) mut	5.8 (MM) mut
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	3.1E+05 nc	3,200 nc	2,500 nc
104518	n-Butylbenzene	1,700 nc	560 nc	7,000 nc
135988	sec-Butylbenzene	6,900 nc	3,800 nc	14 nc
98066	t-Butylbenzene	2.9 nc	0.64 (M) nc	14 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	2,200 nc	320 (M) nc	2.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	140 ca	2.6 (M) ca	530 ca
107062	1,2-Dichloroethane	43 ca	0.82 (M) ca	33 ca
60297	Diethyl ether	38,000 nc	350 nc	35,000 nc
108203	Diisopropyl ether	17,000 (DD) dev	200 (M) (DD) dev	23,000 (DD) dev
64175	Ethanol	1.1E+08 (EE) st	1.3E+06 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	22 (CC) nc	DATA	13,000 nc

Table 1. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **restricted** site-specific criteria that apply to a residential structure that has **slab-on-grade foundation and an elevator shaft extending four feet below grade**, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**

CAS#	Hazardous Substance	Groundwater Not In Contact (GWNIC) (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
100414	Ethylbenzene	96 ca	12 (M) ca	340 ca
106934	Ethylene dibromide	6.7 ca	7.4E-02 (M) ca	1.4 ca
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	4.7E+05 nc	4,900 nc
142825	n-Heptane	150 (GW) nc	130 nc	1.2E+05 nc
110543	n-Hexane	29 (GW) nc	25 nc	24,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	8.8E+05 nc	9,900 nc	7,000 nc
98828	Isopropyl benzene	22 ca	3.8 (M) ca	81 ca
7439921	Lead	NA	NA	NA
Varies	Mercury (Total)	3.1 nc	22 (M) nc	10 nc
1634044	Methyl-tert-butyl ether (MTBE)	8,500 ca	74 (M) ca	3,300 ca
96377	Methylcyclopentane	110 nc	29 (M) nc	24,000 nc
91576	2-Methylnaphthalene	2,900 nc	1,700 nc	350 nc
91203	Naphthalene	160 ca	67 (M) ca	25 ca
109660	Pentane	40 (M) (GW) nc	36 (M) nc	35,000 nc
85018	Phenanthrene	360 nc	1,700 nc	3.5 nc
1336363	Polychlorinated biphenyls (PCBs)	3.1E-02 (M) (CC) (J) ca	DATA	8.5 (J) ca
103651	n-Propylbenzene	8,800 (DD) dev	1,800 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	2.5E+07 nc	3,500 nc
7782492	Selenium	NA	NA	NA
100425	Styrene	1,200 ca	150 ca	1,500 ca
108883	Toluene	48,000 nc	3,700 nc	1.7E+05 nc
540841	2,2,4-Trimethyl pentane	160 (GW) nc	130 (M) nc	1.2E+05 nc

Table 1. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **restricted** site-specific criteria that apply to a residential structure that has **slab-on-grade foundation and an elevator shaft extending four feet below grade**, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**

CAS#	Hazardous Substance	Groundwater Not In Contact (GWNIC) (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
526738	1,2,3-Trimethylbenzene	1,700 (JT) nc	270 (JT) nc	2,100 (JT) nc
95636	1,2,4-Trimethylbenzene	960 (JT) nc	150 (JT) nc	2,100 (JT) nc
108678	1,3,5-Trimethylbenzene	680 (JT) nc	100 (JT) nc	2,100 (JT) nc
1330207	Xylenes	2,600 (J) nc	280 (J) nc	7,600 (J) nc

Table 2. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **unrestricted** site-specific criteria that apply to a residential house with a **basement** foundation, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Shallow Groundwater (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
83329	Acenaphthene	3,900 (S) sol	2.0E+05 nc	7,300 nc
208968	Acenaphthylene	65 (CC) nc	DATA	7,300 nc
994058	t-Amyl methyl ether (TAME)	1,600 nc	34 (M) nc	2,200 nc
120127	Anthracene	43 (S) sol	1.3E+07 nc	35,000 nc
7440382	Arsenic	NA	NA	NA
71432	Benzene	16 ca	1.7 (M) ca	110 ca
56553	Benzo(a)anthracene	9.4 (S) (MM) sol	1.6E+05 (MM) mut	5.8 (MM) mut
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	1.6E+05 nc	3,200 nc	2,500 nc
104518	n-Butylbenzene	880 nc	550 nc	7,000 nc
135988	sec-Butylbenzene	3,000 nc	3,800 nc	14 nc
98066	t-Butylbenzene	1.5 nc	0.64 (M) nc	14 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	1,200 nc	320 (M) nc	2.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	74 ca	2.6 (M) ca	530 ca
107062	1,2-Dichloroethane	23 ca	0.82 (M) ca	33 ca
60297	Diethyl ether	20,000 nc	350 nc	35,000 nc
108203	Diisopropyl ether	8,800 (DD) dev	190 (M) (DD) dev	23,000 (DD) dev
64175	Ethanol	5.9E+07 (EE) st	1.3E+06 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	22 (CC) nc	DATA	13,000 nc

Table 2. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **unrestricted** site-specific criteria that apply to a residential house with a **basement** foundation, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Shallow Groundwater (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
100414	Ethylbenzene	50 ca	12 (M) ca	340 ca
106934	Ethylene dibromide	3.2 ca	7.4E-02 (M) ca	1.4 ca
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	4.7E+05 nc	4,900 nc
142825	n-Heptane	150 (GW) nc	130 nc	1.2E+05 nc
110543	n-Hexane	29 (GW) nc	25 nc	24,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	4.6E+05 nc	9,800 nc	7,000 nc
98828	Isopropyl benzene	11 ca	3.8 (M) ca	81 ca
7439921	Lead	NA	NA	NA
Varies	Mercury (Total)	1.6 nc	22 (M) nc	10 nc
1634044	Methyl-tert-butyl ether (MTBE)	4,500 ca	74 (M) ca	3,300 ca
96377	Methylcyclopentane	57 nc	29 (M) nc	24,000 nc
91576	2-Methylnaphthalene	1,400 nc	1,700 nc	350 nc
91203	Naphthalene	82 ca	67 (M) ca	25 ca
109660	Pentane	40 (M) (GW) nc	36 (M) nc	35,000 nc
85018	Phenanthrene	150 nc	1,700 nc	3.5 nc
1336363	Polychlorinated biphenyls (PCBs)	3.1E-02 (M) (CC) (J) ca	DATA	8.5 (J) ca
103651	n-Propylbenzene	4,500 (DD) dev	1,800 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	2.5E+07 nc	3,500 nc
7782492	Selenium	NA	NA	NA
100425	Styrene	620 ca	150 ca	1,500 ca
108883	Toluene	25,000 nc	3,700 nc	1.7E+05 nc
540841	2,2,4-Trimethyl pentane	160 (GW) nc	130 (M) nc	1.2E+05 nc

Table 2. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **unrestricted** site-specific criteria that apply to a residential house with a **basement** foundation, the depth to groundwater submitted for this site (i.e. 16.5 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Shallow Groundwater (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
526738	1,2,3-Trimethylbenzene	890 (JT) nc	270 (JT) nc	2,100 (JT) nc
95636	1,2,4-Trimethylbenzene	490 (JT) nc	150 (JT) nc	2,100 (JT) nc
108678	1,3,5-Trimethylbenzene	350 (JT) nc	100 (JT) nc	2,100 (JT) nc
1330207	Xylenes	1,300 (J) nc	280 (J) nc	7,600 (J) nc

FOOTNOTES

**Soil vapor site-specific volatilization to indoor air criteria (SSVIAC) are applicable for all depths.

- Acceptable Air Values (AAV) endpoint basis used for SSVIAC: **(ca)** = Carcinogenic; **(nc)** = Non-Carcinogenic; **(dev)** = Developmental; **(mut)** = Mutagenic cancer; **(st)** = Short-term (i.e., less than chronic exposure).
- Footnote **(#)**: Acceptable air concentrations (AAC) cannot be adjusted to a 12-hour exposure time for hazardous substance.
- Footnote **AA**: Health-based groundwater SSVIAC are not available due to insufficient toxicological data. Dissolved-phase methane in groundwater is not explosive; however, if liberated and allowed to accumulate in an enclosed structure the principle health and safety concerns are explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable groundwater concentration is the flammability and explosivity screening level (**FESL**) of 10,000 µg/L.
- Footnote **C**: The health-based SSVIAC exceeds the chemical-specific soil saturation screening level (**Csat**). Because this table does not list Csat values both were provided, with the calculated (health-based) value listed first and Csat provided in parenthesis. The person proposing or implementing response activity must document whether additional response activity is required to control non aqueous phase liquid (**NAPL**) to protect against risks associated with NAPL by using methods appropriate for the NAPL present.
- Footnote **CC**: Insufficient chemical-physical input parameters have been identified to allow the development of a health-based SSVIAC using standard methods. The health based SSVIAC for groundwater is developed based solely on the approach that the department uses for shallow groundwater. If groundwater detections are present, soil vapor may be the most appropriate media to evaluate risk posed from the VIAP.
- Footnote **DATA**: Insufficient physical chemical parameters to calculate a health based SSVIAC for specified media. If detections are present in specified media, health-based soil vapor SSVIAC should be used to evaluate risk.
- Footnote **DD**: Hazardous substance causes developmental effects. Residential SSVIAC are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential SSVIAC are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- Footnote **EE**: The acceptable air concentration (**AAC**) for the volatile hazardous substances is not derived using standard methods. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a United States Environmental Protection Agency Integrated Risk Information System (IRIS) acute reference concentration, or EGLE's Air Quality Division acute initial threshold screening level (ITSL).
- Footnote **FF**: The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater health based SSVIAC are based on modification of the standard methods by the department to develop applicable shallow groundwater values.
- Footnote **GG**: Health-based SSVIAC for soil vapor are not available due to insufficient toxicological data. The soil vapor value addresses the health and safety concerns of explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable soil vapor concentration is derived based on 25% of the lower explosive level (**LEL**) for methane.
- Footnote **GW**: The calculated health based SSVIAC for a hazardous substance based upon shallow groundwater is considered protective when it is greater than the calculated value for groundwater.
- Footnote **ID**: Requires further evaluation to determine the appropriate media to sample.
- Footnote **J**: Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
- Footnote **JT**: Hazardous substance may be present in several isomer forms. The health-based SSVIAC may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive health-based SSVIAC of the detected isomers.
- Footnote **M**: The health based SSVIAC may be below target detection limits (**TDL**). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed health-based SSVIAC, the TDL is used to evaluate the risk posed from the pathway.
- Footnote **MM**: Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating health-based SSVIAC are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- Footnote **NA**: The hazardous substance does not meet the department's definition of a volatile; therefore, no health based SSVIAC were developed.

- Footnote **NR**: The hazardous substance has not been previously evaluated by the Remediation and Redevelopment Division Toxicology Unit. The identification, collection, and evaluation of toxicological literature and chemical-physical data cannot be completed within the timeframe requested.
- Footnote **S**: Calculated health-based SSVIAC exceeds the hazardous substance-specific water solubility limit; therefore, the water solubility limit is used to evaluate the risk posed from the pathway. When this occurs the basis for the screening level is noted as "sol".
- Footnote **TX**: The Remediation and Redevelopment Division Toxicology Unit has not identified an inhalation toxicity value for the hazardous substance.