

Phase II Environmental Site Assessment Report
Smith Site, 319 and 385 Main Street, Wadsworth, Nevada
APN 084-106-79 and 084-160-89

Prepared for:

Pyramid Lake Paiute Tribe
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Project No. 19-02-139



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July 15, 2022

Project No. 19-02-139

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Attn: Ms. Cindy Robles Trejo

RE: *Phase II Environmental Site Assessment*, Smith Site, 319 and 385 Main Street, Wadsworth, Nevada (APNs 084-106-79 and APN 084-160-89).

Dear Ms. Robles Trejo,

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Phase II Environmental Site Assessment* (ESA) report for the property located at 319 & 385 Main St., Wadsworth, Nevada (APNs 084-106-79 and APN 084-160-89).

This report presents the results of Phase II ESA activities performed in accordance with the *Sampling and Analysis Plan* dated December 23, 2021.

Please do not hesitate to contact us if you should have any questions or require additional information.

Sincerely,
BROADBENT & ASSOCIATES, INC.

Prepared by:

Morgan Sawyer
Senior Staff Geologist

Reviewed by:

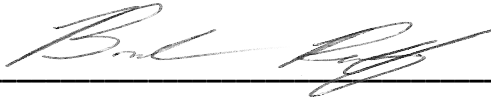
Josh Fortmann, CEM, PG
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Enclosures: Phase II ESA Report

cc: Ms. Audrey L. Johnson, EPA Region 9
Ms. Lisa Hanusiak, EPA Region 9

Phase II ESA Report
Smith Site
Wadsworth, Nevada

APPROVAL PAGE

Approved by:  7/15/22
Brandon Reiff, Broadbent Field Manager Date

Approved by:  7/15/22
Josh Fortmann, Broadbent Project Manager Date

JURAT: I, Josh Fortmann, hereby certify that I am responsible for the services in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulation and ordinances.

Approved by: _____
Donna Noel, PLPT Natural Resources Director Date

Approved by: _____
Audrey L. Johnson, EPA Region 9 Quality Assurance Manager Date

Approved by: _____
Lisa Hanusiak, EPA Region 9 Brownfields Project Manager Date

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DISTRIBUTION LIST

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ABBREVIATIONS AND ACRONYMS

AOC	Analytes of Concern
APN	Assessor's Parcel Number
ASTM	American Society for Testing and Materials
BLS	Below land surface
BGS	Below ground surface
BER	Business Environment Risk
CEM	Certified Environmental Manager - Nevada
CERCLA	Comprehensive Environmental Response, Cleanup, and Liability Act
CFR	Code of Federal Regulations
DQO	Data quality objectives
DRO	Diesel Range Organics
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
GRO	Gasoline Range Organics
HASP	Health and Safety Plan
MS/MSD	Matrix spike and matrix spike duplicate
mg/Kg	Milligrams per kilogram
NDEP	Nevada Division of Environmental Protection
ORO	Oil Range Organic
QA	Quality assurance
QA/QC	Quality assurance/quality control
QC	Quality control
REC	Recognized environmental condition
RSL	Regional Screening Level
SAP	Sampling and analysis plan
SOP	Standard operating procedures
SVOC	Semi-volatile organic compound
RACM	Regulated asbestos containing material
TPH	Total Petroleum Hydrocarbons
USA	Underground Service Alert
USCS	Unified Soil Classification System
UST	Underground Storage Tank

ABBREVIATIONS AND ACRONYMS CONT.

VOA	Volatile organics analysis
VOC	Volatile organic compound
µg/Kg	micrograms per kilogram

EXECUTIVE SUMMARY

This report presents the results of a Phase II Environmental Site Assessment (ESA) for the Smith Site located at 319 and 385 Main Street Wadsworth, Nevada [Assessor's Parcel Numbers (APNs) 084-106-79 and APN 084-160-89]. A site location map is provided as Drawing 1. This Phase II ESA was conducted to assess environmental conditions at the site for planned redevelopment or reuse.

FINDINGS

The Phase II ESA included subsurface soil and building material sample collection. Seventeen (17) soil borings (SS-1 through SS-17) were installed at locations shown on Drawing 2. The vertical extent of the investigation included shallow subsurface soil to 15 feet below land surface (bls). Soil samples SS-1 through SS-8 were collected at 15 feet bls, samples SS-9 through SS-12 were collected at 5 feet bls and 10 feet bls, and soil samples SS-13 through SS-17 were collected at 2 feet bls and 5 feet bls. The following contaminants were detected at concentrations greater than the US Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) and/or Nevada closure criteria at the site:

- Cumulative total petroleum hydrocarbon (TPH) concentrations exceeding 100 milligram per kilogram (mg/Kg) [Nevada Division of Environmental Protection (NDEP) Clean Closure concentration for TPH] were present in four soil samples at concentrations ranging from 105 mg/Kg (sample SS-17-5) to 236 mg/Kg (sample SS-9-10).
- Semi-volatile organic compounds (SVOCs) were reported at concentrations above NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) for three samples:
 - SS-15-2 (2 ft bls): 0.250 mg/Kg of Benzo(b&k)fluoranthene (isomeric pair), 0.076 mg/Kg of Benzo(a)pyrene, and 0.80 mg/Kg of Indeno(1,2,3-cd)pyrene
 - SS-15-5D (5 ft bls): 0.280 mg/Kg of Benzo(b&k)fluoranthene (isomeric pair), and 0.110 mg/Kg of Benzo(a)pyrene (this concentration is also equal to the EPA RSL)
 - SS-15-MS (5 ft bls): 0.180 mg/Kg of Benzo(a)anthracene, 0.520 mg/Kg of Benzo(b&k)fluoranthene (isomeric pair), 0.230 mg/Kg of Benzo(a)pyrene (this concentration is also greater than the EPA RSL), and 0.220 mg/Kg of Indeno(1,2,3-cd)pyrene
- Arsenic was reported at concentrations above the NDEP Residential Closure Level and EPA RSL for all samples analyzed for Resource Conservation and Recovery Act (RCRA) 8 metals.

Volatile organic compounds (VOCs) and TPH-Gasoline Range Organics (THP-GRO) were not detected above the reporting limits in any of the soil samples collected.

This Phase II ESA included building material sample collection for 107 bulk samples of potential asbestos containing materials (ACM) and 19 lead-based paint (LBP) samples. The following materials contained LBP or ACM above screening levels:

- LBP above the screening level of 0.5% by weight was reported in samples collected from Building 1, Building 3, and Building 4.

- ACM (material containing more than 1% asbestos) was detected in the living room floor of Building 1.

CONCLUSIONS

The Phase II ESA identified TPH concentrations above NDEP clean closure values in shallow subsurface soil at the site. Shallow subsurface soil sample results for SVOCs indicate concentrations that exceed NDEP Residential Closure Levels and EPA RSLs. Shallow subsurface soil sample results indicate arsenic concentrations that exceed NDEP Residential Closure Levels and RSLs, but the arsenic concentrations may be indicative of background soil concentrations.

ACM are present in Building 1 and LBP are present in Buildings 1, 3, and 4.

RECOMMENDATIONS

Based on the presence of TPH and SVOCs in site soil at concentrations above NDEP Residential Closure Levels and EPA RSLs, additional assessment or remediation of soil at the site may be warranted. With consideration given to the planned reuse of the site, additional assessment could be performed to evaluate risk-based closure options without performing soil remediation. Alternatively, soil remediation could be performed and confirmation samples collected following remediation to expedite site redevelopment and implement a protective remedy.

Based on the presence of ACM and LBP, removal or mitigation of ACM and LBP should be performed if building renovation or demolition will occur.

During site redevelopment, removal of heating oil UST's and septic systems is also recommended.

If future use of the domestic well is anticipated, an evaluation of water quality is recommended.

1. INTRODUCTION

The Pyramid Lake Paiute Tribe (PLPT) received a Brownfields assessment grant from the U.S. Environmental Protection Agency (EPA) Region 9 Brownfields Program to perform environmental assessment activities to facilitate site redevelopment. Activities conducted by the PLPT are funded by the EPA through a Brownfields grant under Section 128(a) of the Comprehensive Environmental Response, Cleanup, and Liability Act (CERCLA). The Phase II ESA activities were conducted in accordance with the Sampling and Analysis Plan (SAP) dated December 23, 2021.

The PLPT contracted with Broadbent to perform the Phase II ESA and prepare this report.

The objective of the Phase II ESA on the two subject parcels was to collect definitive data in the form of soil and building materials samples for laboratory analysis. Attempts were made to collect groundwater samples, but the drilling equipment encountered refusal before reaching groundwater due to the presence of cobbles and boulders at shallow depths. Soil samples were analyzed for petroleum hydrocarbon constituents including TPH-GRO (gasoline range organics), TPH-DRO (diesel range organics), and TPH-ORO (oil range organics). Soil samples were also analyzed for RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), VOCs, and SVOCs. Building material samples were collected from the four buildings at the site to inform the PLPT of the potential presence of ACM and LBP so that any contaminants of concern (COCs) present in the buildings can be properly abated prior to renovation or demolition. Samples for laboratory analysis were analyzed for the presence of asbestos and lead. The two parcels are adjoining, and as summarized herein, have a similar history regarding previous site development, usage, and environmental concerns.

1.1 PURPOSE

This Phase II ESA was completed in conformance with the ASTM E1903-19 (ASTM, 2019) "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process." This Phase II ESA was also completed in general accordance with the Standards for Conducting All Appropriate Inquiries codified in 40 Code of Federal Regulations (CFR) Part 312; ASTM E1903-19 (ASTM, 2019). The Phase II ESA was necessary to confirm the presence, or the likely presence, of petroleum product and hazardous building materials. The ASTM standard specifies procedures of the scientific method to characterize property conditions in an objective, representative, reproducible, and defensible manner.

1.2 SCOPE OF WORK

The scope of work for the Phase II ESA included the following tasks:

- Retained and scheduled EnProbe Environmental Direct Push Drilling Services (EnProbe) to operate direct push drilling equipment.
- Contacted Underground Service Alert (USA), as required by law, to locate underground utilities in the vicinity of the work site
- Notified the property owner and the PLPT of the scheduled field activities
- Perform a Site reconnaissance to observe current site conditions
- Utilize a private utility locator to clear drilling locations of underground utilities prior to initiating field activities

- Prepare a Health & Safety Plan (HASP) to inform project personnel of potential project hazards, as required by the Occupational Safety and Health Administration (OSHA)
- Observe direct push drilling activities and conduct lithologic logging activities for seventeen soil borings (SS-1 through SS-17)
- Collect one jar sample and three Encore® samples from soil borings SS-1 to SS-8 15 feet bls
- Collect one jar and three Encore® samples from soil borings SS-9 to SS-12 at 5 feet and 10 feet bls
- Collect three jar samples from soil borings SS-13 to SS-17 at 2 feet and 5 feet bls
- Collect 107 ACM samples
- Collect 19 LBP samples
- Facilitate onsite storage of soil cuttings in a 55-gallon drum for future transport and disposal, pending receipt of laboratory analytical results
- Submit soil samples to Alpha Analytical, Inc. (a Nevada certified laboratory) for analysis
- Soil samples were analyzed for TPH-GRO, TPH-DRO, and TPH-ORO by SW8015C; RCRA 8-metals by 6020; VOCs by SW8260B; and SVOCs by SW8270C-SIM
- Submit building materials to Asbestos TEM Laboratories, Inc. (a Nevada certified laboratory) for analysis
- ACM samples were analyzed by 600/R-93/116
- LBP samples were analyzed by SW-846 Method 7000B
- Prepared this Phase II ESA Report to summarize the findings and conclusions for the site assessment activities in accordance with SAP requirements

1.3 SPECIAL TERMS AND CONDITIONS

This document has been prepared by Broadbent solely for the use of EPA and PLPT. Any use of this document or information herein by persons or entities other than the EPA and the PLPT without the express written consent of Broadbent, will be at the sole risk and liability of said person or entity. Broadbent will not be liable to such persons or entities for any damages resulting therefrom. It is understood that this document may not include all information pertaining to the described site.

1.4 PERSONNEL PERFORMING PHASE II ESA

This Phase II ESA was completed by the following personnel:

Table 1-1 Key Project Personnel Contact Information and Responsibilities

Title	Name / Company	Phone Number / Email Address	Responsibilities
EPA Brownfields Project Manager	Lisa Hanusiak / EPA	(415) 972-3152 Hanusiak.lisa@epa.gov	Responsible for EPA Brownfields Project coordination
EPA Quality Assurance Officer	Audrey L. Johnson / EPA	(415) 972-3431 Johnson.audrey@epa.gov	Responsible for EPA Quality Assurance review of the SAP and quality assurance (QA) goals.
Brownfield Applicant	Donna Noel / PLPT	(775) 574-0101 DNoel@plpt.nsn.us	Oversee Brownfields assessment activities
Contractor Project Manager	Josh Fortmann / Broadbent & Associates, Inc.	(775) 322-7969 / jfortmann@broadbentinc.com	Primary PLPT contractor POC and project manager. Responsible for the overall project.
Contractor QAO	Josh Fortmann / Broadbent & Associates, Inc.	(775) 322-7969 / jfortmann@broadbentinc.com	Primary NBP contractor QAO. Responsible for QA on the project.
Contractor Field Team Leader	Brandon Reiff / Broadbent & Associates, Inc.	(775) 322-7969 / breiff@broadbentinc.com	Responsible for preparing and implementing the SAP, managing field activities, and the quality control (QC) of field sampling activities.
Laboratory Quality Assurance Officer	Randy Gardner Alpha Analytical, Inc.	(800) 283-1183 randyg@alpha-analytical.com	Responsible for data review.
Laboratory Quality Manager	Tom Suess / Asbestos TEM Laboratories, Inc.	(775) 359 3377 tsuess@asbestostemplabs.com	Responsible for data review.

2. PROJECT AREA DESCRIPTION

The site is in Wadsworth, Nevada with an approximate latitude and longitude (center of the site) of 39.6313980 North, -119.2893390 West NAD83. The site is located within the southwest quarter of the northeast quarter of Section 4, Township 20 North, Range 24 East, relative to the Mount Diablo Baseline and Meridian. The site is covered by the United States Geological Survey (USGS) 6721866 Wadsworth, NV 7.5-minute quadrangle topographic map. A Site Location Map is attached as Drawing 1.

The site is currently an unoccupied residential lot with four buildings (319 Main St.) and a second vacant residential lot (385 Main St.). The site, consisting of two parcels, collectively occupies approximately 0.949 acres in a residential area. According to the Washoe County Assessor, the approximate size of Assessor Parcel Number (APN) 084-160-79 is 0.698 acres and the approximate size of APN 084-160-89 is 0.251 acres.

Table 2-1 provides adjoining property descriptions/uses for parcels 084-160-79 and 084-160-89, respectively.

Table 2-1 Adjoining Property Uses - APN 011-450-24

Direction	Address	Use & Occupant	Comments
North	N/A	Vacant Lot	APN: 084-160-84
	N/A	Vacant Lot	APN: 084-160-84
	N/A	Vacant Lot	APN: 084-160-84
South	N/A	Main Street	Public throughfare
	310 Main St. 420 Main St.	Single Family Residence Single Family Residence	APN: 084-160-07 APN: 084-160-06
West	N/A	Vacant Lot	APN: 084-160-83
East	N/A	Main St.	Public thoroughfare
	N/A	Vacant Lot	APN: 084-160-08

Surface water likely drains to the lower elevation area to the northwest of the site.

2.1 HISTORICAL BACKGROUND

Between approximately the 1800s through the early 1900s, the Central Pacific Railroad, associated railroad building structures, and a large roundhouse were located adjacent to the north and east of the site. Based on information provided by the site owner, fill material was moved from the adjacent railroad and used onsite to raise the ground surface elevation. According to the Washoe County Assessor the four building structures currently on the site were constructed in 1938. The Owner states the site structures were used to house an antique shop and for residential purposes (multi-family). The site structures were heated using heating oil stored in underground storage tanks (USTs), and the structures were served with onsite septic systems. The site has been predominantly unoccupied since 2010 and is currently unoccupied.

2.1.1 Previous Investigations and Regulatory Involvement

The two (2) subject parcels (APNs 084-160-79 and 084-160-89) making up the site have undergone a previous Phase I ESA.

The PLPT provided an Asbestos 2007 Report dated June 24, 2007, which was reviewed as a part of Broadbent's Phase I ESA. The Asbestos 2007 Report was performed by Kellco. The Asbestos 2007 Report notes that four of the five buildings on the property contained ACM.

A Phase I ESA performed by Broadbent and Associates Inc. (Broadbent) dated September 18, 2020, documented the presence of recognized environmental condition (RECs) and business environmental risk (BERs) at the site. RECs include COCs that may be present in the soil because of fill placement from the former railroad releases from USTs, or COCs discharge to septic tanks at the site. BERs documented ACM present on the site and the potential for LBP.

To provide information regarding locations of possible USTs and other subsurface features, a GPR survey was conducted on January 11, 2021, by GPRS, Inc. Six areas on the site were noted during the GPR survey which contain potential evidence of tanks and/or unknown subsurface features. During Phase II ESA the six areas highlighted by the GPR survey were analyzed. Additional details regarding the GPR survey and the findings are provided in GRPS's Summary of Scanning for Underground Storage Tanks (USTs) dated January 19, 2021.

The owner indicated regions where fill material, taken from prior location of the Central Pacific railroad, was used to level the topography. During the Phase II ESA soil samples from these locations were analyzed to verify if the fill material is impacted by petroleum hydrocarbons.

A domestic well (well logs #15147 & 15215) was identified on the site. The domestic well is in the northwestern most building on the site (APN: 084-160-79). The domestic well was initially drilled on August 20, 1974, and completed on September 6, 1974. The well was approximately eight inches in diameter and around 130 feet deep. The domestic well was initially screened from 110 feet below ground surface (bgs) to 130 feet bgs and had a 60-foot seal per well log #15215.

In September 1975, the domestic well was deepened and reconditioned. Per well log #15147, "the well was originally drilled by G.W. Peterson, supposedly to 127-foot depth. The well was filled to the 105-foot depth and length of eight-inch casing is unknown. Water quality was bad due to the prevalence of oil in the hole. The well was drilled and cased to 151 feet bgs with six-inch casing and a cement slurry poured between the two casings to shut off the undesirable water. It is conclusive that the upper, or original water was shut off." Static water level was reported at 45 feet bls.

As indicated above in well log #15147 poor water quality was noted due to "oil" being in the well. Subsequently, the well was re-drilled and reconditioned to "shut off the undesirable water." No analytical data and/or testing of the water from the domestic well was provided and/or available. Based on information provided, the Phase I ESA findings conducted by Broadbent on September 18, 2020, note that RECs from potentially impacted groundwater and domestic well are currently present at the site at the time of the site reconnaissance. The Phase II ESA conducted by Broadbent on March 2, 2022, was unable retrieve samples from the well because the well was inaccessible.

Mr. Brandon Reiff of Broadbent conducted a site reconnaissance of the site on August 24, 2020, the results of which are summarized in the Phase I ESA 2020 report (available upon request).

Due to the presence of the RECs identified during the Phase I ESA, an SAP entitled *Sampling Analysis Plan Smith Site* dated December 23, 2021, was prepared for the site. As discussed in the SAP the "Phase

II ESA has been proposed to further investigate RECs and quantitatively assess the potential environmental impacts to the subject site”.

3. PHASE II ESA ACTIVITIES

The objective of this assessment was to evaluate the RECs and BERs on these two subject parcels to inform the PLPT of the existing levels of residual petroleum hydrocarbon soil impacts and hazardous building materials of the four buildings. The historical cases on the site are summarized in the September 18, 2020, *Phase I Environmental Site Assessment*, 319 and 385 Main Street, (APNs: 084-160-79 and 084-160-89).

Site information was reviewed to evaluate historical uses and identify hazardous substances that may be present on site. The information and site history were used to select the most effective sampling design to meet the project objectives within the schedule and budgetary constraints. The following potential sources of contamination were identified:

- Analytes of concern (AOCs) in soil: TPH-GRO, TPH-DRO, TPH-ORO, VOCs, SVOCs, and RCRA 8-metals. AOCs, if present at concentrations above screening levels, could pose a human health risk via inhalation, direct contact, or incidental ingestion.
- Hazardous building materials: ACM and LBP. If present the potential exists for worker exposure to asbestos fibers and/or lead paint dust from the materials at the site during renovation or demolition activities.

Previous assessment at the site has documented the presence of ACM in four buildings; no effort prior to this Phase II ESA has been performed to assess for LBP at the site or assess if the soil is impacted by contaminants. Additional data are needed to inform the PLPT of potential presence of soil impacts and potential presence of hazardous building materials. Future redevelopment plans for the site are undetermined. Should renovation or redevelopment occur, potential receptors include construction workers that may be moving soil and performing building modifications/renovations and future residential tenants. Thus, the protection of human health based on residential exposure scenario is appropriate.

The following field activities were conducted from March 2 and 3, 2022:

- Broadbent personnel observed the advancement and sampling of 17 soil borings (SS-1 through SS-17) to a total depth of 15 feet bls. Boring advancement was conducted using a direct push drill rig. During advancement of each boring, soil was continuously cored, and the lithology logged.
- Soil samples were collected from borings SS-1 to SS-8 at 15 feet bls, borings SS-9 to SS-12 at 5 feet and 10 feet bls, and borings SS-13 to SS-17 at 2 feet and 5 feet bls. Soil samples for TPH (DRO & ORO), SVOCs, and RCRA-8 metals analyses were collected in certified pre-cleaned glass jars. Soil samples for TPH-GRO and VOC analyses were collected in Encore® samplers. Soil samples were labeled, stored chilled, and delivered to Alpha Analytical, Inc. of Sparks, Nevada, a Nevada certified laboratory under chain-of-custody protocol.
- A total of 32 soil samples were analyzed for TPH-DRO, TPH-ORO, and TPH-GRO by EPA Method 8015C; RCRA 8-metals by EPA Method 6020; SVOCs by EPA Method 8270C-SIM; and VOCs by EPA Method 8260B.

- Upon completion of each soil boring at the site, each borehole was backfilled with bentonite/cement grout.
- 107 bulk samples of homogeneous materials containing suspect ACM were collected and analyzed for by PLM using EPA Method 600/R-93/116 for asbestos
- 19 representative bulk samples of paint were collected from various types of paint and painted surfaces and analyzed for lead using EPA Sw-846 Method 7000B

Soil boring locations are shown in Drawings 2 and 3. The sampling rationale for the sampling locations are specified in the table below (Table 3-1).

Table 3-1 Sampling Design and Rationale Matrix - Soil

Sampling IDs	Depth (feet)	Analytical Parameter	Rationale
SS-1 through SS-8	15 feet BLS	TPH and VOCs	To characterize the soil beneath the potential former gasoline UST locations and the suspected heating oil UST locations.
SS-9 through -12	5 and 10 feet BLS	TPH and VOCs	To characterize soil beneath the former leach field and septic tank areas.
SS-13 through -17	2 and 5 feet BLS	TPH, RCRA-8 Metals, and SVOCs	To assess whether fill material taken from the adjacent railroad site(s) is impacted by petroleum hydrocarbons.

Soil sample analytical results were compared to NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs based on the anticipated future use of the site. The data collected during this site assessment were used to evaluate environmental concerns at the site and identify the potential impact on future redevelopment.

Building material sample locations are shown on Drawings 4 and 5. The sampling rationale is in the table below (Table 3-2).

Table 3-2 Sampling Design and Rationale Matrix – Building Materials

Sampling IDs	Analytical Parameter	Rationale
HA-1-1 through HA-37-3	Asbestos (ACM)	ACM survey of building materials potentially containing asbestos
LBP-1 through LBP-19	Lead (LBP)	LBP survey of building materials potentially containing lead that could be disturbed during renovation and/or demolition

3.1 SOIL SAMPLING

Based on the historical use of the site and knowledge of UST locations, judgmental sampling was the most appropriate sampling approach to assess potential soil impacts from heating oil UST, septic tanks, and fill material.

Soil borings were installed using a direct push drill rig. Soil samples (consisting of an eight-ounce (8oz) jar and three Encore® samplers) were collected from soil borings SS-1 through SS-8 at depths listed in Table 3-3. At boring locations where the drill rig encountered refusal, samples were collected from the deepest depth of soil core recovered. Duplicate and extra volume samples were collected for borings SS-5, SS-11, and SS-15. Sample depth and the analytical method are analyzed in Table 3-3.

Table 3-3 Summary of Soil Sample Depth and Analytical Methods

Sample ID	Sample Location	Target Sample Depth (ft)	Actual Sample Depth (ft)	Analytical Methods and Sample Containers			
				8W8015C 8-oz Jar	SW8260B 3 Encore®	SW8270C 8-oz Jar	6020 8-oz Jar
SS-1	SS-1	15	15	x	x		
SS-2	SS-2	15	15	x	x		
SS-3	SS-3	15	12	x	x		
SS-4	SS-4	15	12	x	x		
SS-5	SS-5	15	15	x	x		
SS-5D*	SS-5	15	15	x	x		
SS-5-MS	SS-5	15	15	x	x		
SS-6	SS-6	15	13.5	x	x		
SS-7	SS-7	15	11.6	x	x		
SS-8	SS-8	15	15	x	x		
SS-9-5	SS-9	5	5	x	x		
SS-9-10	SS-9	10	10	x	x		
SS-10-5	SS-10	5	5	x	x		
SS-10-10	SS-10	10	10	x	x		
SS-11-5	SS-11	5	5	x	x		
SS-11-10	SS-11	10	10	x	x		
SS-11-10D*	SS-11	10	10	x	x		
SS-11-MS	SS-11	10	10	x	x		
SS-12-5	SS-12	5	5	x	x		
SS-12-10	SS-12	10	9	x	x		
SS-13-2	SS-13	2	2	x		x	x
SS-13-5	SS-13	5	5	x		x	x
SS-14-2	SS-14	2	2	x		x	x
SS-14-5	SS-14	5	5	x		x	x
SS-15-2	SS-15	2	2	x		x	x
SS-15-5	SS-15	5	5	x		x	x
SS-15-5D*	SS-15	5	5	x		x	x

Sample ID	Sample Location	Target Sample Depth (ft)	Actual Sample Depth (ft)	Analytical Methods and Sample Containers			
				8W8015C 8-oz Jar	SW8260B 3 Encore®	SW8270C 8-oz Jar	6020 8-oz Jar
SS-15-MS	SS-15	5	5	x		x	x
SS-16-2	SS-16	2	2	x		x	x
SS-16-5	SS-16	5	5	x		x	x
SS-17-2	SS-17	2	2	x		x	x
SS-17-5	SS-17	5	5	x		x	x

Notes:

* = Duplicate Soil Samples

SW8015C analytical parameter TPH GRO, DRO, and ORO

6020 analytical parameter RCRA 8-metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)

8260B analytical parameter VOCs

SW8270C SIM analytical parameter SVOCs

Boring locations are depicted on Drawing 2. Subsurface soil sampling was conducted in accordance with the SAP and standard operating procedures (SOPs) in the SAP. It should be noted that it is Broadbent's policy to hand-clear the first 6.5 feet of all mechanically installed boreholes. Refusal while hand clearing each borehole location was met prior to reaching 6.5 feet bls. Per Section 6.3 (Scenario 2) in the SAP, the decision to proceed with drilling based on professional judgement (subsurface lithology, lack of marked utilities in the area, drillers experience) was followed.

Samples analyzed for VOCs (GRO and EPA Method 8260 constituents) were collected first. Once the desired sample depth was reached, each VOC sample was collected into a sample-dedicated Encore® container by pushing the sample container with a "T" bar into an undisturbed portion of the soil core as soon as it was retrieved from the boring. Encore® sample containers were labeled, placed in a zip lock bag, and stored in an iced cooler.

Soil samples analyzed for non-VOCs (SVOCs and RCRA-8 Metals) were collected from the soil core using a clean disposable scoop and transferred into laboratory-provided 8-ounce glass jars, labeled, and stored in an iced cooler.

Disposable, nitrile gloves were used during soil sample collection. The soil samples were labeled, placed in a laboratory-supplied cooler with ice (cooled to 4 °C) immediately upon collection and during transport to the laboratory. Since the laboratory is local, samples did not need to be shipped. Soil samples collected in Encore® Samplers were submitted to the laboratory on the same day as sample collection due to the 48-hour preparation/analysis time for the Encore®.

Soil sampling locations and depths were recorded on daily field sheets as sampling was completed. Daily field sheets are included in Appendix A. Photographs taken at soil sampling locations are included in Appendix B.

Soil was logged using the Unified Soil Classification System (USCS). Soil types and other pertinent geologic data were recorded on a boring log form. Lithologic logs for the site are included in Appendix C. Soil samples were screened for organic vapors using a photo-ionization detector (PID). The PID was calibrated and operated in accordance with manufacturer instructions. PID measurements were recorded on the boring log forms.

3.1.1 Field Quality Control Soil Sample Collection

Trip Blanks

One trip blank was submitted to the laboratory for analysis each day that samples were collected. Trip blanks for soil samples are VOA vials filled with purged deionized water that are transported to the field and then returned to the laboratory without being opened. A total of three trip blanks were submitted and analyzed for TPH via EPA Method 8015C and VOCs via EPA Method 8260B.

Field Duplicates

Field duplicate soil samples were collected at a frequency of one per 10 field sample locations for a total of three duplicate soil samples.

3.3 BUILDING MATERIAL SAMPLING

Sample locations are depicted on Drawing 4 for asbestos containing materials (ACM) and Drawing 5 for LBP. Building materials were visually inspected for asbestos using the methods presented in the Federal Asbestos Hazard Emergency Response Act regulations. The EPA Asbestos-Containing Materials in Schools, Final Rule and Notice (EPA, 1987) is generally accepted as the industry standard for ACM inspections. Potential ACMs were also physically assessed for friability, condition, and disturbance factors. Bulk samples of all homogeneous materials containing suspect ACMs were collected.

AHERA sample criteria guidelines were followed to determine the number of samples collected from each homogeneous area. A sample approximately 2 to 4 square inches in size was collected from each area of suspect ACM. The sample was collected by removing the material using a sampling blade, to cut away a representative piece. Each sample was placed in a plastic resealable bag and labeled. The sample number, location, and material type were recorded on field logs. ACM sampling was conducted in accordance with the SOPs in the approved SAP.

Broadbent visually inspected building materials for evidence of blistered or peeling paint. Painted surfaces exhibiting evidence of peeling or blistering was documented in the field notes along with a description of the structural member and approximate area observed to be peeling or blistered. Representative bulk samples of paint were collected from the various types of paint and painted surfaces. Where possible, a sample approximately 1 to 2 square inches in size was collected from each painted surface. The sample was collected by removing the paint using a sampling blade to cut away a representative piece. Each sample was placed in a plastic resealable bag and labeled. The sample number, location, and material type were recorded on field logs. LBP sampling was conducted in accordance with the US Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing – Appendix 13.2 Paint Chip Sampling*. This SOP is included in the approved SAP.

3.3.1 Building Material Field Quality Control Samples

Duplicate building material samples were collected at a rate of one per 10 field samples. Duplicate ACM samples were obtained from sampling of homogeneous surfacing materials. The procedure for determining the number of samples to be taken for homogeneous surfacing materials per AHERA is as follows:

- 3 Samples if the material is <1000 square feet.

- 5 Samples if the material is between 1000-5000 square feet.
- 7 Samples if the material is >5000 square feet.

These minimum number of samples required by AHERA were created to minimize errors due to lack of uniformity in the distribution of asbestos throughout the material and laboratory error. These samples are to check the consistency of the results obtained from a laboratory. The inspector can obtain a quality control sample by taking ACM samples adjacent to each other of the same homogeneous material. These are given unique sample numbers so the laboratory analysts cannot readily identify the quality control sample.

3.4 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

The following deviations from the SAP were made based on encountered field conditions:

- Soil boring SS-6 was moved approximately six feet east of the originally proposed location (specified in the SAP) due to the location of Southwest Gas active natural gas line.
- Groundwater samples were not collected due to drill rig refusal. A groundwater sample could not be collected from the onsite drinking water well due to an inoperable well pump. Soil sample results from this Phase II ESA did not identify significant soil contamination that would indicate a likely source of groundwater contamination.
- MS/MSD analysis was performed on soil samples SS-13-2 and SS-11-MS (collected at 10 feet depth) and not sample SS-15-MS (collected at 5 feet depth), but MS/MSD frequency requirement was met.

These deviations are judged to not have any adverse impact on the analytical data or conclusions of this report.

4. PHASE II ESA RESULTS

4.1 SOIL SAMPLING

Soil sample analytical results were compared to established NDEP and EPA screening levels for the protection of construction workers that may be moving soil and remnant building features to prepare the site for demolition and/or redevelopment and future site residents. The following screening levels were selected to correspond with the potential future residential use of the site:

- Soil sampling results for SVOCs and VOCs are compared to NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs based on the potential future residential use of the site. Soil sample results for TPH are compared to the NDEP action levels to obtain “Clean Closure” for a site generally posing an acceptable level of risk for all exposure scenarios (NDEP, 2014). TPH cumulative total values exceeding 100 mg/Kg would default to EPA RSLs for VOCs and SVOCs (EPA, 2019a). Soil sampling results for RCRA-8 metals are compared to NDEP Residential Closure Levels and US EPA RSLs.

The laboratory analytical results for subsurface soil samples for TPH, VOCs, and SVOCs are summarized in Tables 1, 2, and 3, respectively. Copies of the laboratory analytical reports and chains-of-custody are provided in Appendix D. Sampling locations are shown on Drawing 2, and analytical results for TPH and SVOCs are summarized on Drawing 3. Soil sample results are discussed below.

4.1.1 TPH Results in Soil

A total of 32 soil samples were collected and analyzed for TPH-GRO, TPH-DRO, and TPH-ORO.

- Reportable concentrations of TPH-GRO were not detected in any of the samples
- Reportable concentrations of TPH-DRO were detected in eight samples at concentrations ranging from 12 mg/Kg (SS-14-5) to 26 mg/Kg (SS-9-10)
- Reportable concentrations of TPH-ORO were detected in twelve samples at concentrations ranging from 11 mg/Kg (SS-12-5) to 210 mg/Kg (SS-9-10)
- TPH cumulative total values meeting or exceeding 100 mg/Kg were present in four samples at concentrations ranging from 105 mg/Kg (SS-17-5) to 236 mg/Kg (SS-9-10)

TPH cumulative total values are a sum of the TPH constituents including TPH-GRO, TPH-DRO, TPH-ORO. The NDEP has set <100 mg/Kg as the TPH action level to obtain “Clean Closure” for a site generally posing an acceptable level of risk for all exposure scenarios. Clean Closure criteria are met when all soil sample analytical results (using analytical EPA Method 8015 modified) are below 100 mg/Kg for TPH cumulative total values and TPH constituents. Any TPH cumulative total values exceeding 100 mg/Kg are evaluated using EPA RSLs for VOCs and SVOCs. The TPH cumulative total values are presented in Table 1 and summarized in Table 4-1 below. Laboratory analytical results for TPH-GRO, TPH-DRO, and TPH-ORO are presented in Table 1 and Drawing 3.

Table 4-1 Detected TPH Results Summary

Sample Information	TPH-DRO	TPH-ORO	TPH-cumulative total
Number of Samples Analyzed	32	32	32
Detected Result Range (mg/Kg)	12 – 26	11 - 210	11 – 236
Number of Detections	8	12	12
NDEP Clean Closure Value (mg/Kg)	100	100	100
Number of Exceedances	0	2	4
Notes: mg/Kg = milligrams per kilogram TPH-DRO = total petroleum hydrocarbons - diesel range TPH-ORO = total petroleum hydrocarbons - motor oil range TPH-Cumulative total = sum of all TPH constituents (TPH-DRO, TPH-GRO, TPH-ORO)			

4.1.2 VOC Results in Soil

A total of 20 soil samples were collected and analyzed for VOCs. VOCs were not detected above laboratory reporting limits in any of the soil samples analyzed. Laboratory analytical results for VOCs are presented in Table 2.

4.1.3 Semi Volatile Organic Compound-Polycyclic Aromatic Hydrocarbons in Soil

A total of 12 soil samples were collected and analyzed for SVOCs. SVOCs were primarily below laboratory reporting limits and/or detected at concentrations below NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs.

As shown in Table 3, soil samples SS-15-2, SS-15-5D, SS-15-MS, and SS-17-5 contained reportable concentrations of SVOCs. The following SVOCs exceeded screening levels:

- **Benzo(a)anthracene:** The NDEP residential closure level for benzo(a)anthracene of 0.15 mg/Kg was exceeded in sample SS-15-MS (0.180 mg/Kg).
- **Benzo(b)fluoranthene:** The NDEP residential closure level for Benzo(b)fluoranthene of 0.15 mg/Kg was exceeded in samples SS-15-2 (0.250 mg/Kg), SS-15-5D (0.280 mg/Kg), and SS-15-MS (0.520 mg/Kg).
- **Benzo(a)pyrene:** The NDEP residential closure level for benzo(a)pyrene of 0.015 mg/Kg was exceeded in samples SS-15-2 (0.076 mg/Kg), SS-15-5D (0.110 mg/Kg), and SS-15-MS (0.230 mg/Kg).
- **Indeno(1,2,3-cd)pyrene:** The NDEP residential closure level for Indeno(1,2,3-cd)pyrene of 0.15 mg/Kg was exceeded in samples SS-15-2 (0.80 mg/Kg), and SS-15-MS (0.220 mg/Kg).

Laboratory analytical results for SVOCs in soil samples are presented in Table 3 and detected results are summarized in Table 4-2 below.

Table 4-2 Detected SVOC Results Summary

Sample Information	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Phenanthrene	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Benzo (b&k) Fluoranthene Isometric pair	Benzo(a) Pyrene	Indeno (1,2,3-cd) Pyrene	Benzo (g,h,i) Perylene
Number of Samples	12	12	12	12	12	12	12	12	12	12	12	12
Detected Results (mg/Kg)	0.042	0.052	0.026, 0.074	0.200, 0.130, 0.110, 0.100	0.350, 0.550, 0.240, 0.077	0.340, 0.510, 0.240, 0.061	0.120, 0.180, 0.150, 0.027	0.130, 0.160, 0.370, 0.045	0.520, 0.280, 0.250	0.110, 0.076 0.230	0.80, 0.220, 0.081	0.220, 0.110, 0.098
Number of Detections	1	1	2	4	4	4	4	4	3	3	3	3
Screening Levels (mg/Kg)	2.0 (EPA-RSL: Residential) 3.8 (NDEP Industrial Closure Levels)	240 (EPA-RSL: Residential) 230 (NDEP Industrial Closure Levels)	18 (EPA-RSL: Residential) 17 (NDEP Industrial Closure Levels)	N/A	22,000 (EPA-RSL: Residential) 30,000 (NDEP Industrial Closure Levels)	17,000 (EPA-RSL: Residential) 23,000 (NDEP Industrial Closure Levels)	1.10 (EPA-RSL: Residential) 0.015 (NDEP Industrial Closure Levels)	210 (EPA-RSL: Residential) 290 (NDEP Industrial Closure Levels)	21 (EPA-RSL: Residential) 2.9 (NDEP Industrial Closure Levels)	0.11(EPA-RSL: Residential) 0.015 (NDEP Industrial Closure Levels)	2 (EPA-RSL: Residential) 2.9 (NDEP Industrial Closure Levels)	N/A
Number of Exceedances	0	0	0	N/A	0	0	1	0	0	3	0	N/A
Notes: N/A = not applicable mg/Kg = milligrams per kilogram												

4.1.4 RCRA-8 Metals

A total of 12 soil samples were collected and analyzed for RCRA-8 metals. Metals concentrations were primarily below laboratory reporting limits and/or detected at concentrations below NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs, except for arsenic.

As shown in Table 4, all soil samples contained reportable concentrations of metals. Arsenic concentrations exceeded the NDEP Residential Closure level of 0.39 mg/Kg in all soil samples at concentrations ranging from 4.0 mg/Kg to 11 mg/Kg. Laboratory analytical results for metals in soil samples are presented in Table 4 and detected results are summarized in Table 4-3 below.

Table 4-3 Detected RCRA-8 Results Summary

Sample Information	Chromium (Cr)	Arsenic (As)	Cadmium (Cd)	Barium (Ba)	Mercury (Hg)	Lead (Pb)
Number of Samples	12	12	12	12	12	12
Detected Result Range (mg/Kg)	9.30 – 22.0	4.00 – 11.0	1.10	59.0 – 150	0.410 – 0.730	5.10 – 210
Number of Detections	12	12	1	12	2	12
NDEP Clean Closure Value (mg/Kg)	38.0	0.390	8.00	N/A	6.70	400
Number of Exceedances	0	12	0	0	0	0
Notes: N/A = not applicable mg/Kg = milligrams per kilogram						

4.2 BUILDING MATERIALS

4.2.1 Asbestos Inspection

Asbestos containing materials are regulated under the National Emission Standard for Hazardous Air Pollutants (NESHAP) for demolition and renovation purposes. NESHAP regulations are contained in 40 Code of Federal Regulations (CFR) 61 Subpart M. In accordance with these regulations, Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering, or asphalt roofing product which contains more than one percent (1%) asbestos. Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos. A regulated asbestos-containing material (RACM) is defined by NESHAP as: (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

ACM is also regulated under the Occupational Safety & Health Administration (OSHA) and applicable regulations are contained in 29 CFR 1926.1101. In general, ACM should only be disturbed by workers

who have received the proper training in asbestos abatement and maintenance activities. Class I work is defined by OSHA as activities involving the removal of thermal system insulation (TSI), surfacing ACM, and presumed asbestos containing material (PACM). Class II work is defined by OSHA as activities involving the removal of ACM which is not TSI or surfacing material. This includes but is not limited to the removal of asbestos containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics. Material quantities, NESHAP Categories, and OSHA Classifications for each material having an asbestos content of greater than 1% (i.e. ACM) are recorded. Materials containing an asbestos content of less than 1% are not regulated by NESHAP and do not have an assigned class of asbestos work under OSHA. However, to ensure the safety of workers, OSHA still requires implementation of wet methods, prompt containment of waste in leak-tight containers, and performance of a Negative Exposure Assessment verified by air monitoring during the disturbance of materials containing asbestos above 0% but below 1%. **QUANTITIES OF ACM PROVIDED ARE APPROXIMATE. ALL ACM IDENTIFIED IN THIS REPORT SHOULD BE REMEASURED PRIOR TO BIDDING, ABATEMENT, OR DEMOLITION ACTIVITIES.**

Laboratory results of building materials analyzed for asbestos are summarized in Table 5. The majority of sample did not contain asbestos, but three samples from Building 1 contained asbestos greater than 1%. Asbestos was reported at 1%-5% in the mastic layer (samples HA-14-1, HA-14-2, HA-14-3) and was reported at 20%-30% in the vinyl sheet flooring (samples HA-14-1, HA-14-2, HA-14-3).

Building one contains ACM of up to 500 square feet (ft²) of non-friable vinyl sheet flooring and yellow mastic. Vinyl sheet flooring contains 20-30% of chrysotile, and the yellow mastic contains 1-5% chrysotile (sample identifications HA-14-1, HA-14-2, and HA-14-3). The material was observed to be in good conditions (Category I, Class II).

Table 5, attached, contains the analytical results of the ACM that were identified on the property. Drawing 4 shows where each sample was collected and summarizes the sample results.

4.2.2 LBP Inspection

The EPA and the U.S. Department of Housing and Urban Development (HUD) define LBP as paint coatings containing lead in an amount equal to or more than 0.5% by weight. OSHA regulations do not define a minimum concentration of lead as a threshold for action. As a result, paint coatings with concentrations of lead below 0.5% by weight are still regulated by OSHA and are defined as lead containing paint (LCP).

Paint coating sample results are summarized in Table 6. Six samples contained greater than 0.5% lead by weight ranging from 0.55% (LBP-6) to 14% (LBP-17).

BUILDING ONE:

1. White interior door frame (sample LBP-2)
2. White exterior wall (sample LBP-3)
3. Shop area red exterior wall (sample LBP-5)

BUILDING THREE:

1. Red exterior wall (sample LBP-13)
2. Interior white wall (sample LBP-16)

BUILDING FOUR:

1. Exterior red wall (sample LBP-17)

Eight samples contained lead at or above the reporting limit of 0.0050% ranging from 0.005% (LBP-14) to 0.067% (LBP-9). Based on analytical results of paint chip samples collected during this inspection, LBP was identified in 14 of 20 paint chip samples collected and the following building materials contain greater than 0.5% lead and are designated as LBP containing:

BUILDING ONE:

1. Shop area red wall (sample LBP-5)

BUILDING TWO:

1. Exterior white wall (sample LBP-7)
2. Exterior tan wall (sample LBP-8)
3. Exterior teal green wall (sample LBP-9)

BUILDING THREE:

1. White exterior wall (sample LBP-12)
2. Blue interior wall (sample LBP-15)
3. Interior white wall (sample LBP-16)

BUILDING FOUR:

1. Red exterior wall (sample LBP-11)

Table 6, attached, provides the concentrations of LBP that were identified at the Property. Drawing 5 shows the sample locations and summarizes the sample results.

4.3 QC SAMPLE RESULTS**4.3.1 Soil Samples***Trip Blanks*

One trip blank was submitted to the laboratory for analysis each day that samples were collected. A total of two trip blanks were analyzed for TPH-GRO, TPH-DRO, TPH-ORO, and VOCs. Trip blanks for soil samples are VOA vials filled with purged deionized water that are transported to the field and then

returned to the laboratory without being opened. Laboratory analytical results for each of the trip blanks (Trip Blank 1, Trip Blank 2) were below laboratory reporting limits.

Field Duplicates

Three field duplicate soil samples (SS-5D, SS-11-10D, and SS-15-5D) were collected and analyzed for TPH. Samples SS-5D and SS-11-10D were also analyzed for VOCs, and sample SS-15-5D was analyzed for SVOCs and metals. Precision of field duplicates were evaluated by calculating the relative percent difference (RPD). The RPD is calculated with the following equation:

$$RPD (\%) = (S-D)/[(S+D)/2] * 100$$

Where: S is the sample concentration, and
D is the duplicate concentration

Primary samples SS-5 and SS-11-10 and duplicate samples SS-5D and SS-11-10D were ND for TPH and VOCs, so RPDs were not calculated. RPDs for reportable SVOC concentrations for primary sample SS-15-5 and duplicate sample SS-15-5D are summarized below. Since the soil sampled was a heterogeneous media, sample variability was anticipated and an RPD threshold value was not established in the SAP.

Table 4-4 Soil Sample Field Duplicates RPD Summary

Analyte	Primary Sample: SS-15-5	Duplicate Sample: SS-15-5D	RPD (%)
	Concentration (mg/Kg)	Concentration (mg/Kg)	
1-Methylnaphthalene	<0.025	0.026	3.9
Phenanthrene	<0.025	0.13	135.5
Fluoranthene	<0.025	0.35	173.3
Pyrene	<0.025	0.34	172.6
Benzo(a)anthracene	<0.025	0.15	142.9
Chrysene	<0.025	0.16	145.9
Benzo(b&k)fluoranthene	<0.050	0.28	139.4
Benzo(a)pyrene	<0.025	0.11	125.9
Indeno(1,2,3-cd)pyrene	<0.025	0.081	105.7
Benzo(g,h,i)perylene	<0.025	0.11	125.9
Chromium	21	14	40.0
Arsenic	4.7	6.0	24.3
Selenium	130	130	0.0
Mercury	<0.20	0.41	68.9
Lead	33	92	94.4

Laboratory QC Sample Results

Laboratory QC Summary Reports listed the following qualifiers:

Work Order BBA2203072

- MSD for barium (Ba) and lead (Pb) qualified “RS” - RPD outside accepted recovery limits

Work Order BBA2203072

- MS for barium (Ba) and lead (Pb) qualified “S” – spike recovery outside accepted recovery limits

Work Order BBA2203072

- MSD for chloromethane and vinyl chloride qualified “R” – RPD outside accepted recovery limits

Based on a review of the laboratory analytical reports and QC summary reports, the data meet the project Data Quality Objectives (DQOs) and are acceptable for project purposes.

4.3.2 Building Material Samples

One LBP duplicate sample (LBP-10D) was collected. The primary sample did not contain a reportable concentration of lead (<0.0050%) and the duplicate sample contained a reportable lead concentration (0.0080%) below the screening level of 5% by weight.

Four asbestos duplicate samples (HA-10-3, HA-18-3, HA-28-3, and HA-37-3) were collected. None of the primary samples or duplicate samples contained a reportable percentage of asbestos.

5. DISCUSSION

5.1 SOIL SAMPLE RESULTS

None of the soil samples analyzed contained reportable concentrations of TPH-GRO or VOCs. Cumulative TPH concentrations exceeding the NDEP Clean Closure concentration were present in four soil samples. Reportable concentrations of SVOCs were present in four soil samples. Of those four, two were below NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs, and two exceeded NDEP Petroleum in Soils Analyte Specific Closure Levels (Residential) and US EPA RSLs. Concentrations of RCRA-8 metals above reporting limits were present in all 12 samples analyzed. All samples were above NDEP Industrial Closure Levels and US EPA RSLs for arsenic.

The Phase II ESA identified concentrations of TPH and SVOCs slightly above NDEP Clean Closure and/or EPA RSLs at three sample locations:

Boring SS-9

This boring location was selected to target a septic tank associated with an onsite leachfield. Sample SS-9-5 (5 ft depth sample) contained TPH-DRO and TPH-ORO at concentrations below the NDEP Clean Closure Level of 100 mg/Kg, but SS-9-10 contained TPH-ORO at a concentration of 210 mg/Kg. Based on the available data, TPH is present in soil at a concentration above 100 mg/Kg and the vertical and lateral extent of impacted soil has not been defined.

Boring SS-15

This boring location was selected to characterize fill material. Sample SS-15-2 contained TPH-ORO at a

concentration less 100 mg/Kg but contained SVOCs above the NDEP Analyte-Specific Closure Levels for residential sites. Sample SS-15-5 contained TPH-ORO at a concentration of 160 mg/Kg, and the duplicate samples from this location (SS-15-5D and SS-15-5S) contained SVOCs above the NDEP Analyte-Specific Closure Levels for residential sites. Duplicate sample SS-15-5S also contained a cumulative TPH concentration of 117 mg/Kg. Based on the available data, TPH and SVOCs are present in soil at concentrations above Closure Levels and the vertical and lateral extent of impacted soil has not been defined.

Boring SS-17

SS-17-5: This sample location was selected to characterize fill material. Sample SS-17-2 did not contain reportable concentrations of TPH. Sample SS-17-5 contained cumulative TPH at a concentration of 105 mg/Kg. Based on the available data, TPH is present in soil at a concentration above 100 mg/Kg and the vertical and lateral extent of impacted soil has not been defined.

While the concentrations of TPH and/or SVOCs at the above boring locations exceed screening levels, the volume of contaminated soil may not exceed the NDEP reportable quantity of three cubic yards. Since the three locations are not adjacent to one another, each location is considered independently with respect to the potential volume of soil containing contaminants above Closure Levels.

Each of the 12 soil samples collected from boring locations SS-13, SS-14, SS-15, SS-16, and SS-17 contained arsenic above the Residential Closure Level, but the concentrations appear to be representative of background conditions in the area. A *Map Showing Arsenic Concentrations from Stream Sediments and Soils Throughout the Humboldt River Basin* (USGS, 2003) shows arsenic concentrations ranging from 1.9 - 17 mg/Kg in the Wadsworth area.

Based on the relatively low concentrations and apparently limited lateral extent, additional assessment may be warranted to evaluate the risk posed to future site workers or occupants from contaminants in soil. Alternatively, if redevelopment activities at the site include structure demolition and/or septic tank and heating oil UST removal, excavation and removal of soil containing contaminants above screening levels could be performed during site redevelopment.

5.2 BUILDING MATERIALS

As previously presented, up to 500 ft² of non-friable yellow vinyl sheet flooring and yellow mastic were present in the underlying flooring throughout the living room of building, and this flooring and mastic contain asbestos concentrations above 1% (Sample Identifications HA-14-1 to HA-14-3). The material was observed to be in good condition (Category I, Class II). All four buildings contain coatings of lead greater than 0.5% by weight, which by EPA and HUD standards classify the materials as LBP.

Future use of the site is currently undetermined. Should structure renovation or demolition occur, it is recommended that identified ACM/LBP materials that will be impacted by the demolition and/or renovation be properly abated to comply with federal and state regulations. Please refer to the recommendation section of this report.

6. CONCLUSIONS

6.1 SOIL SAMPLES

The following conclusions are provided based on the Phase II ESA results:

- TPH concentrations are above NDEP clean closure values in shallow subsurface soil at three discrete locations (SS-9, SS-15, and SS-17).
- Shallow subsurface soil sample results for SVOCs indicate concentrations that exceed NDEP Residential Closure Levels and EPA RSLs at one location (SS-15).
- Shallow subsurface soil sample results indicate arsenic concentrations that exceed NDEP Residential Closure Levels and RSLs, but the arsenic concentrations may be indicative of background soil concentrations.

6.2 BUILDING MATERIALS

Building material samples collected from four buildings at the site indicate:

- LBP above the screening level of 0.5% by weight was reported in samples collected from Building 1, Building 3, and Building 4.
- ACM (material containing more than 1% asbestos) was detected in the living room floor of Building 1.

7. RECOMMENDATIONS

7.1 SOIL SAMPLES

The following recommendations are provided based on the available information from the Phase II ESA and previous investigations:

Based on the presence of TPH and SVOCs in site soil at concentrations above NDEP Residential Closure Levels and EPA RSLs, additional assessment or remediation of soil at the site may be warranted. With consideration given to the planned reuse of the site, additional assessment could be performed to evaluate risk-based closure options to redevelop the site without soil remediation. Alternatively, soil remediation could be performed and confirmation samples collected following remediation to expedite site redevelopment and implement a protective remedy. The concentrations of TPH and SVOCs in subsurface soil at the site exceed NDEP reportable concentrations, but the extent of contamination, while currently undefined, does not appear to exceed the NDEP reportable quantity of three cubic yards of impacted soil at any one of the three locations. NDEP release reporting regulations are based on reportable quantity exceedance at individual releases and are not intended to consider reportable quantities based on combining individual releases.

During site redevelopment, removal of heating oil UST's and septic systems is also recommended. Additionally, if future use of the domestic well is anticipated, an evaluation of water quality is recommended.

7.2 BUILDING MATERIALS

7.2.1 Asbestos Containing Materials

At the time of inspection, the ACM was in good condition and did not appear to be friable, thus was not designated as a regulated asbestos containing material (RACM). As a result, the material can remain in

place during demolition provided it is not subject to sanding, grinding, cutting, or abrading, and does not become crumbled, pulverized, or reduced to a powder by the forces expected to act on the material during demolition or renovation operations. This demolition debris should be disposed as non-friable asbestos containing construction waste at an appropriate disposal facility.

6.2.1.1 OSHA ASBESTOS REGULATIONS INCLUDING ADDITIONAL NEVADA REGULATIONS

The ACMs identified during this inspection were designated as a Class II. The work shall comply with the practices and prohibitions described in the OSHA asbestos regulation for Class II work. Abatement and demolition activities should only be performed by workers who have been properly trained in this class of work. In accordance with NAC 618.951 *"Exemption of Certain Activities From Requirements,"* vinyl asbestos floor tile, exterior roofing materials, exterior siding, drywall, joint compound, and other non-friable materials containing asbestos are exempt from requirements of NAC 618.850 to 618.986. To remain eligible for this exemption, the activities must be performed in accordance with 29 CFR 1910.1001 and 29 CFR 1926.1101, and practices must be maintained to ensure that materials containing asbestos are:

1. not sanded, power sawed, or drilled;
2. removed in the largest sections practicable and carefully lowered to the ground;
3. handled carefully to minimize breakage throughout removal, handling, and transportation to an authorized disposal site; and
4. wetted before removal and during subsequent handling to the extent practicable.

If building materials are to be recycled, all ACM must first be removed from these materials in accordance with all applicable federal, state, and local regulations by a Nevada-licensed asbestos abatement contractor before transport to the recycling facility.

7.2.2 Lead Based Paint Recommendations

For LBP, should demolition and/or renovation activities be undertaken, it is recommended that all LBP that will be impacted by the demolition and/or renovation be properly abated to comply with federal and state regulations.

To prevent LBP dust and debris from contaminating the environment beyond the demolition area, the LBP must be in good condition or stabilized (loose materials scraped and edges encapsulated) before demolition.

Demolition standards involving LBP and other lead containing or contaminated materials are provided in the OSHA Construction Industry Standard for Lead 29 CFR 1926.62. This standard addresses such issues as worker training, medical evaluations, personnel protective equipment, exposure assessment, biological monitoring, air monitoring, hygiene facilities, work practices, and health and safety plans. This document should be referenced by those performing activities on or around materials coated with LBP as it pertains to worker health and safety.

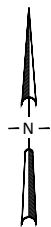
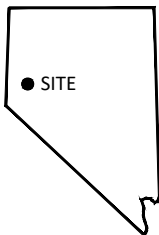
8. LIMITATIONS

The findings presented in this report are based upon information provided by observations of field personnel, activities reported by Broadbent, points investigated, results of laboratory tests performed by Alpha Analytical, Inc. (soils samples), Asbestos TEM Laboratories, Inc. (building materials), and our understanding of Nevada Administrative Code. Our services were performed in accordance with the generally accepted standard or practice at the time this report was written. No other warranty expressed or implied was made. This report has been prepared for the exclusive use of EPA and the PLPT. It is possible that variations in soil could exist beyond points explored in this investigation; and changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors. Additionally, there is a possibility that additional suspect ACM and LCP may be found during demolition and/or renovation activities. If additional suspect material is identified, samples of these suspect materials should be collected and submitted for laboratory analysis. Activities which may impact these suspect materials should cease until completion of laboratory analysis. Suspect materials should be assumed to be hazardous and handled as such unless laboratory analysis has been performed.

REFERENCES

- ASTM. 2019. E1903-19, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.
- Broadbent & Associates, September 18, 2020. Phase I Environmental Site Assessment, 319 & 385 Main St. (APN: 084-160-79 & 084-160-89), Wadsworth, NV.
- Broadbent & Associates, December 23, 2021. Sampling and Analysis Plan, 319 & 385 Main St. (APN: 084-160-79 & 084-160-89), Wadsworth, NV.
- NDEP. 2009. Draft Guidelines for Discovery Events (Soil RCs), Appendix A2 Full List of Reportable Concentrations in Soil, Version 01/28/2009. January 28.
- NDEP. 2014. Closure Checklist and Closure Citation Guidelines. June.
- US EPA. 2006. Guidance on Systematic Planning using the Data Quality Objectives Process. February. EPA QA/G-4, EPA/240/B-06/001.
- US EPA. 2018. Sampling and Analysis Plan Guidance and Template, Version 4, Brownfields Assessment Projects (EPA, August 2018).
- USGS. 2003. Map Showing Arsenic Concentrations from Stream Sediments and Soils Throughout the Humboldt River Basin and Surrounding Areas, Northern Nevada by Douglas B. Yager and Helen W. Folger (USGS, 2003).

DRAWINGS



0 2,000 4,000
APPROXIMATE SCALE (ft)

IMAGE SOURCE: Google Earth



5450 Louie Lane, #101
Reno, Nevada 89511

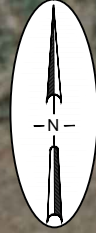
Project No.: 19-02-139 Date: 5/4/2022

Phase II ESA
319 and 385 Main St.
Wadsworth, Nevada 89442

Site Location Map

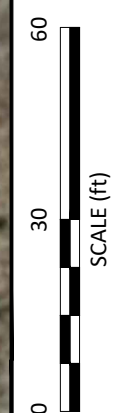
Drawing

1



LEGEND

- SS-9 Septic Tank Assessment Boring Location
- SS-1 Potential UST Assessment Boring Location
- SS-17 Fill Material Assessment Boring Location
- DW-1 Approximate Domestic Well Location



BROADBENT
5450 Louie Lane, #101
Reno, Nevada 89511
Project No.: 19-02-139 Date: 7/5/2022

Phase II ESA
APNs 084-160-79 & 084-160-89
319 and 385 Main St.
Wadsworth, Nevada 89442



SS-15-2	mg/Kg
3/3/2022	
BaA	-
Benzo b&k	0.250
BaP	0.076
1,2,3-cd	0.80

SS-15-5D	mg/Kg
3/3/2022	
BaA	-
Benzo b&k	0.280
BaP	0.110
1,2,3-cd	-

SS-15-MS	mg/Kg
3/3/2022	
BaA	0.180
Benzo b&k	0.520
BaP	0.230
1,2,3-cd	0.220

SS-15-5	mg/Kg
3/3/2022	
DRO	19
ORO	160
GRO	<10

SS-15-MS	mg/Kg
3/3/2022	
DRO	22
ORO	95
GRO	<10

SS-17-5	mg/Kg
3/3/2022	
DRO	24
ORO	81
GRO	<10

SS-9-10	mg/Kg
3/3/2022	
DRO	26
ORO	210
GRO	<10

APN 084-160-79
319 Main St.

APN 084-160-89
385 Main St.

LEGEND

- SS-9 Septic Tank Assessment Boring Location
- SS-1 Potential UST Assessment Boring Location
- SS-17 Fill Material Assessment Boring Location
- DW-1 Approximate Domestic Well Location

Boring ID	Units
SS-15-5	mg/Kg
Date	
DRO	19
ORO	160
GRO	<10

Detected Analytes
— TPH-E (Diesel)
— TPH-E (Oil)
— TPH-P (Gasoline)

Boring ID	Units
SS-15-MS	mg/Kg
Date	
BaA	0.180
Benzo b&k	0.520
BaP	0.230
1,2,3-cd	0.220

Detected Analytes
— Benzo (a) Anthracene
— Benzo (b,K) fluoranthene
— Benzo (a) Pyrene
— Indeno (1,2,3-cd) pyrene

HA-1

HA-14-1

Approximate Location and Identification of Asbestos Sample

Approximate Location and Identification of Asbestos Sample with Chrysotile Results (%)

HA-14-1

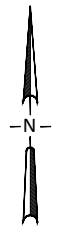
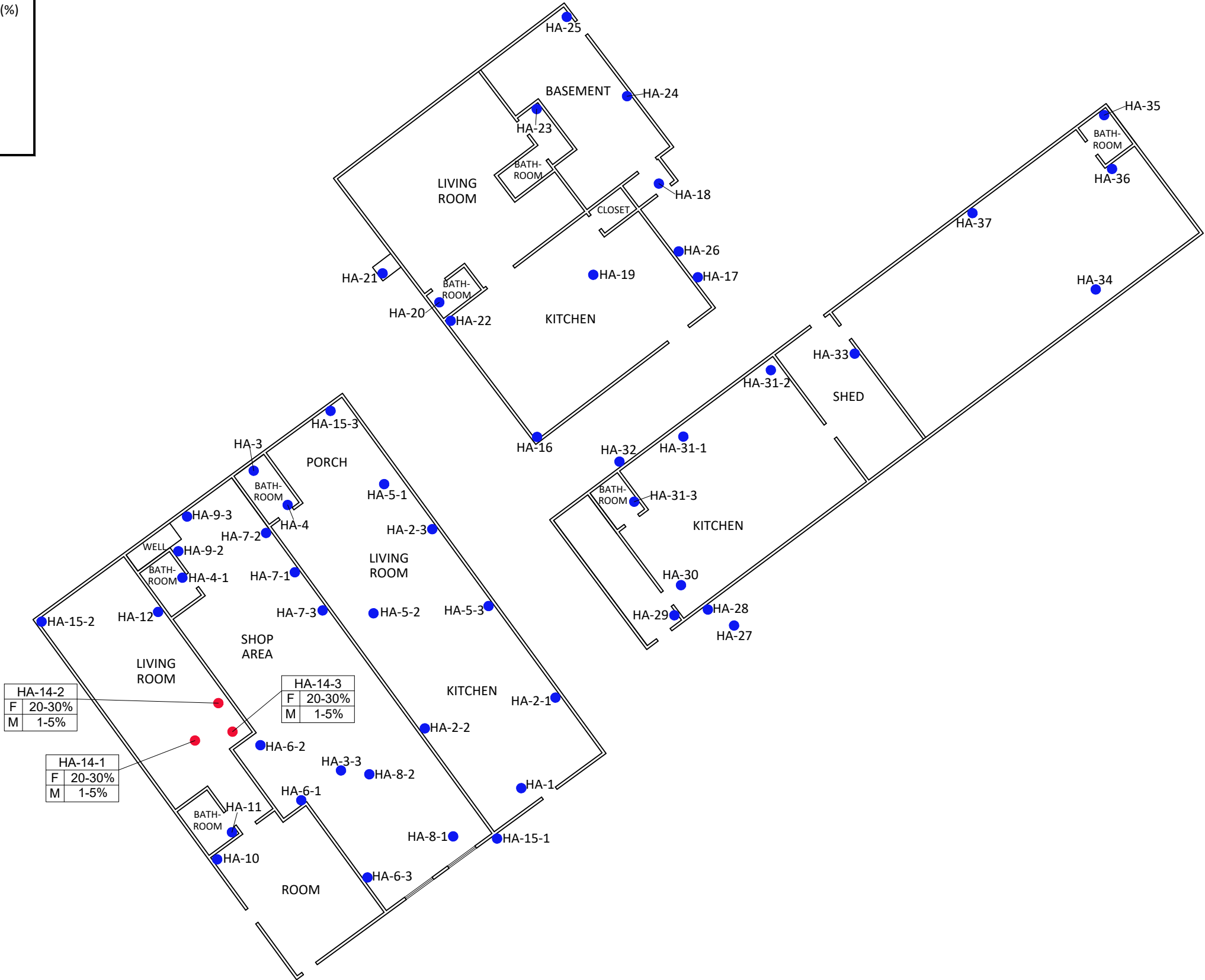
F 20-30%

M 1-5%

Sample Identification

Chrysotile

F = Flooring
M = Mastic





TABLES

APPENDIX A
DAILY FIELD SHEETS



DAILY REPORT

Page 1 of 2

Project: PLPT - Smith Site Project No.: 19-02-139
Field Representative(s): Brandon Reiff & Morgan Sawyer Day: Wednesday Date: 03/02/22
Time Onsite: From: 8:30 To: 15:25; From: _____ To: _____; From: _____ To: _____

☒ Signed HASP ☒ Safety Glasses ☒ Hard Hat ☒ Safety Toe Boots ☒ Safety Vest
☒ UST Emergency System Shut-off Switches Located ☒ Proper Gloves ☒ Drum Count
Proper Level of Barricading _____ Other PPE (describe) _____

Weather: Cloudy with a light breeze (45-70°F)

Equipment in Use: PID

Visitors: n/a

CALIBRATION LOG

PID:	Fresh Air:	ppm	Span:	ppm
Multi	Fresh Air:	CO: _____ ppm	VOC: _____ ppm	H ₂ S: _____ ppm
Gas		LEL: _____ %	Oxy: _____ %	
Meter:	Bump Test:	CO: _____ ppm	VOC: _____ ppm	H ₂ S: _____ ppm
		LEL: _____ %	Oxy: _____ %	

TIME:

WORK DESCRIPTION:

9:20-10:20 SS-1. Encountered hard rock at ~10' & couldn't drill past 21'. Tried moving to a different location ~3' away & hit the same problem. What is logged is from the first hole (original location). Due to this issue we decided to mix collecting ^{9N}water samples. Collected 3 encore & a jar sample.

11:00-11:25 SS-2 got to 15' recovered 3 encore & a jar sample

12:05-12:20 SS-3 got to 12' before refusal. Collected 3 encore & a jar sample

12:50-13:00 SS-4 got to 12' before refusal. Collected 3 encore & a jar sample

13:30-13:55 SS-6 Moved slightly ~6' east of original mark to avoid hitting southwest gas natural gas line. Refusal at 13'6". Samples collected from 12' boring. Collected 3 encores and 1 jar.

14:15-14:40 SS-5 made it to 15' BGS. Collected 3 encore & a jar sample

15:15-15:25 SS-7 hit solid rock at 11'8". Collected 3 encore & a jar sample at the 11'8" depth.

16:00 samples dropped off at Alpha Analytical.

Signature: Morgan Sawyer

Revision: 03/16/2017

Project: PLPT - Smith Site Project No.: 19-02-139
 Field Representative(s): Brandon Reiff + Morgan Sawyer Day: Thursday Date: 03/03/22
 Time Onsite: From: 8:20 To: 15:20 ; From: _____ To: _____ ; From: _____ To: _____

☒ Signed HASP ☐ Safety Glasses ☒ Hard Hat ☒ Safety Toe Boots ☒ Safety Vest
☒ UST Emergency System Shut-off Switches Located ☒ Proper Gloves ☒ Drum Count
 _____ Proper Level of Barricading _____ Other PPE (describe) _____

Weather: cool & breezy (40-65°F)
 Equipment in Use: PID

Visitors: Cindy from the Brownsfields project (new hire so observed the process)

CALIBRATION LOG

PID:	Fresh Air:	_____ ppm	Span:	_____ ppm		
Multi	Fresh Air:	CO: _____ ppm	VOC: _____ ppm	H ₂ S: _____ ppm		
Gas		LEL: _____ %	Oxy: _____ %			
Meter:	Bump Test:	CO: _____ ppm	VOC: _____ ppm	H ₂ S: _____ ppm		
		LEL: _____ %	Oxy: _____ %			

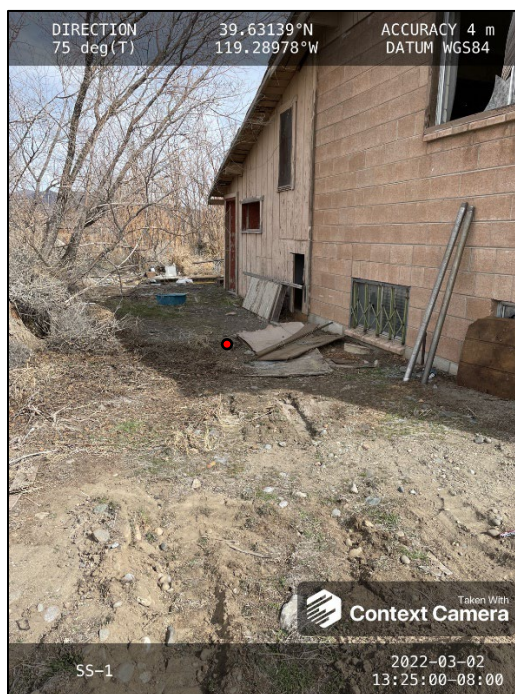
TIME:
WORK DESCRIPTION:

7:00-9:25 SS-8 got to 15'. collected 3 encores & a jar sample
 9:50-9:55 SS-17-2 collected 3 jar samples (from hand auger)
 9:55-10:00 SS-17-5 collected 3 jar samples ~~SS-17-5 collected 3 jar samples~~
 10:15-10:20 SS-16-2 collected 3 jar samples
 10:25-10:30 SS-16-5 collected 3 jar samples
 10:40-11:00 SS-15-2 collected 3 jar samples
 11:05-11:10 SS-15-5 collected 3 jar samples
 11:10-11:15 SS-15-5D not enough sample left to get a sample from SS-15-5's sleeve so pulled another & gathered 3 jar samples
 11:15-11:20 SS-15MS not enough sample from SS-15-5D so pulled another ^{sleeve} ~~SS-15-5D~~ & gathered 3 jar samples from the third sleeve.
 11:30-11:40 SS-14-2 collected 3 jar samples.
 11:40-11:50 SS-14-5 collected 3 jar samples
 12:05-12:10 SS-13-2 collected 3 jar samples
 12:10-12:15 SS-13-5 collected 3 jar samples
 12:30-12:35 SS-12-5 collected ~~3 jar samples~~ 3 encore & 1 jar sample
 12:45-12:50 SS-12-10 refusal at 9'. collected ~~3 jar samples~~ 3 encore & 1 jar sam
 12:50-13:00 SS-9-5 Hit ^{wood} ~~SS-9-5~~ at ~4.5' collected 1 jar & 3 encores.
 13:00-13:05 SS-9-10 collected 1 jar & 3 encores
 13:20-13:30 SS-11-5 collected 1 jar & 3 encores
 13:30-13:35 SS-11-10 collected 3 jars & 9 encores (duplicate sample : SS-11-10D & MS sample: SS-11-MS)
 14:15-14:20 SS-10-10 collected 1 jar & 3 encores
 14:20-14:30 SS-10-5 collected 1 jar & 3 encores.
 16:05 Dropped samples off at the lab

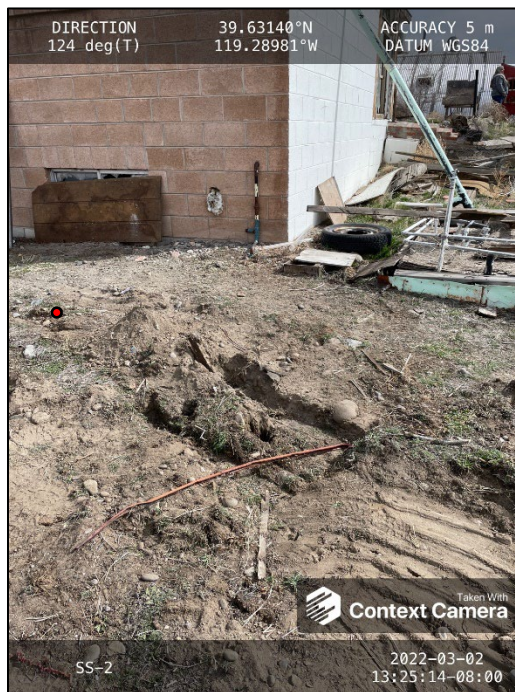
Signature: Morgan Sawyer

APPENDIX B

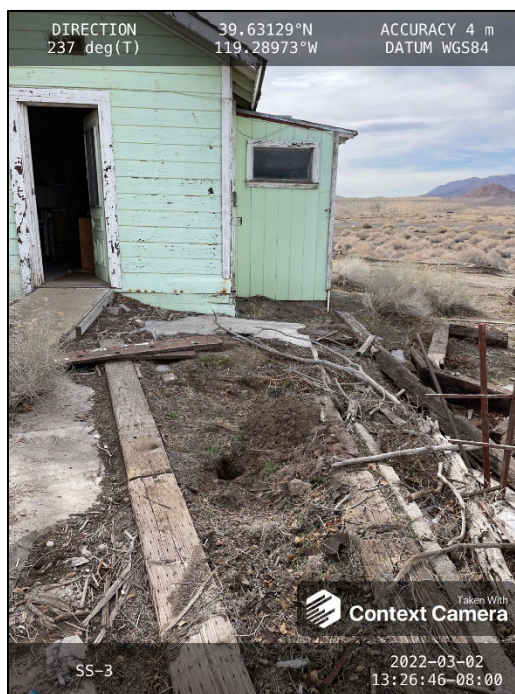
SITE PHOTOGRAPHS



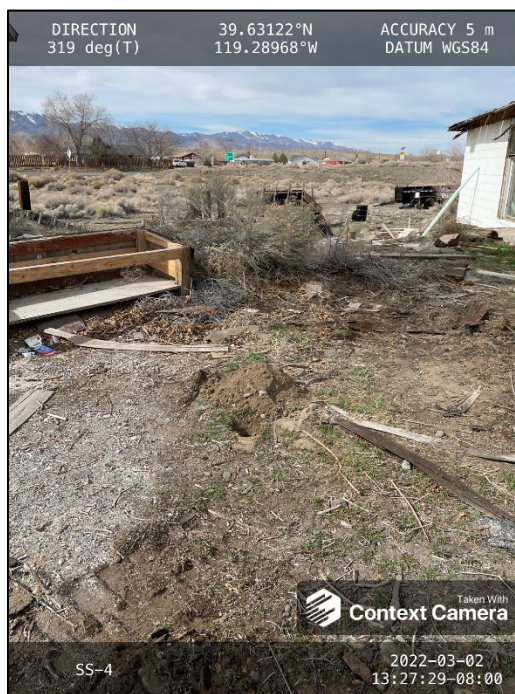
Photograph 1 taken by Morgan Sawyer. View facing northeast: Soil boring SS-1 location represented by the red dot.



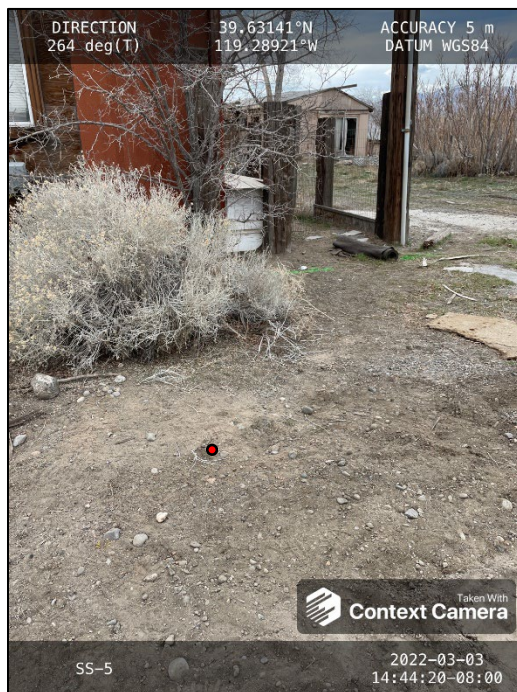
Photograph 2 taken by Morgan Sawyer. View facing southeast: Soil boring SS-2 location represented by the red dot.



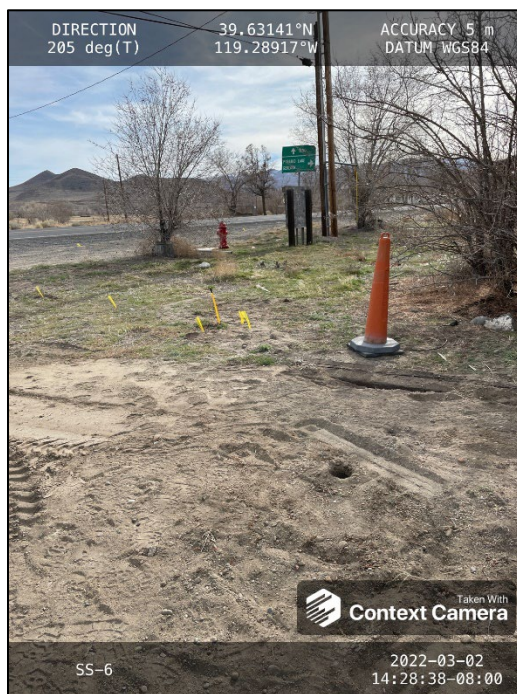
Photograph 3 taken by Morgan Sawyer. View facing southwest: Soil boring SS-3.



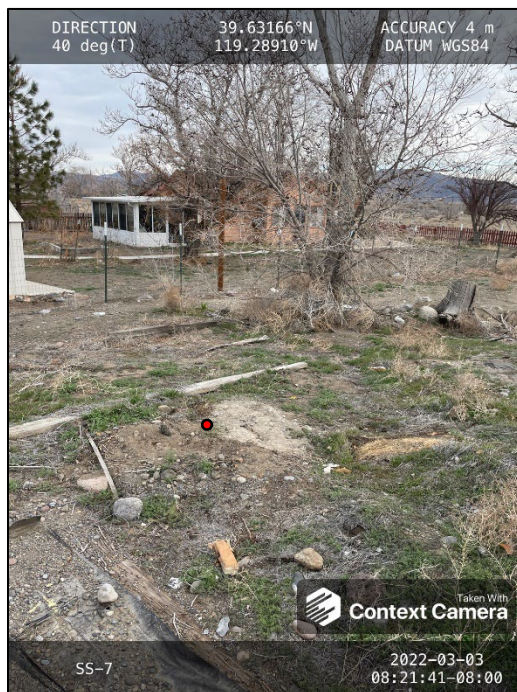
Photograph 4 taken by Morgan Sawyer. View facing northwest: Soil boring SS-4.



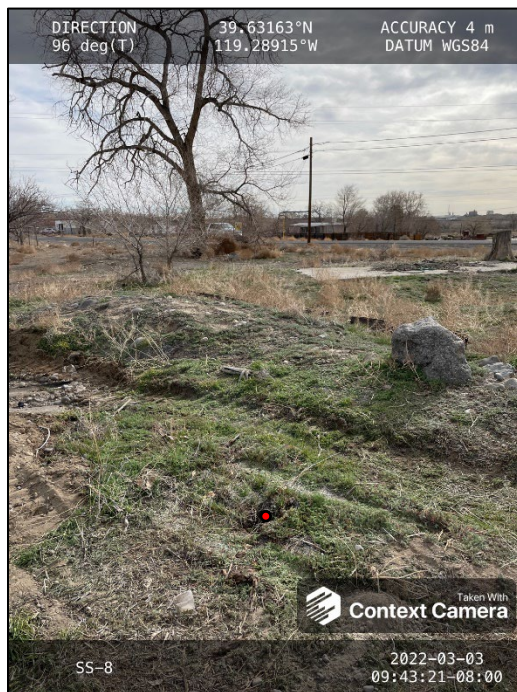
Photograph 5 taken by Morgan Sawyer. View facing west: Soil boring SS-5 location represented by the red dot.



Photograph 6 taken by Morgan Sawyer. View facing southwest: Soil boring SS-6.



Photograph 7 taken by Morgan Sawyer. View facing north: Soil boring SS-7 location represented by the red dot.



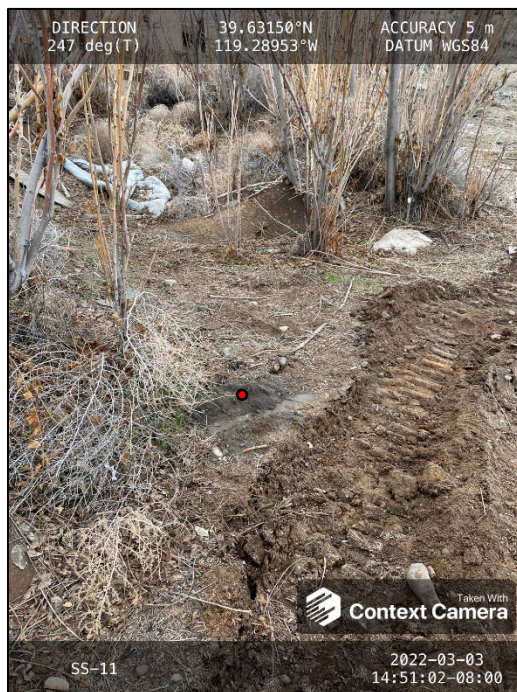
Photograph 8 taken by Morgan Sawyer. View facing east: Soil boring SS-8 location represented by the red dot.



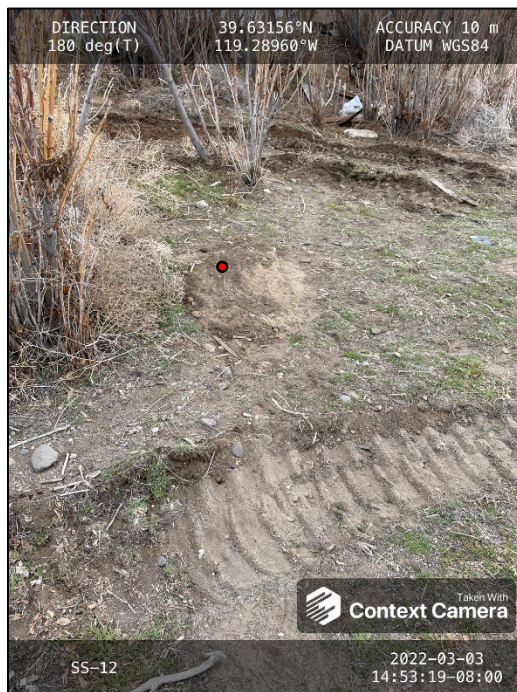
Photograph 9 taken by Morgan Sawyer. View facing southeast: Soil boring SS-9.



Photograph 10 taken by Morgan Sawyer. View facing northwest: Soil boring SS-10 location represented by the red dot.



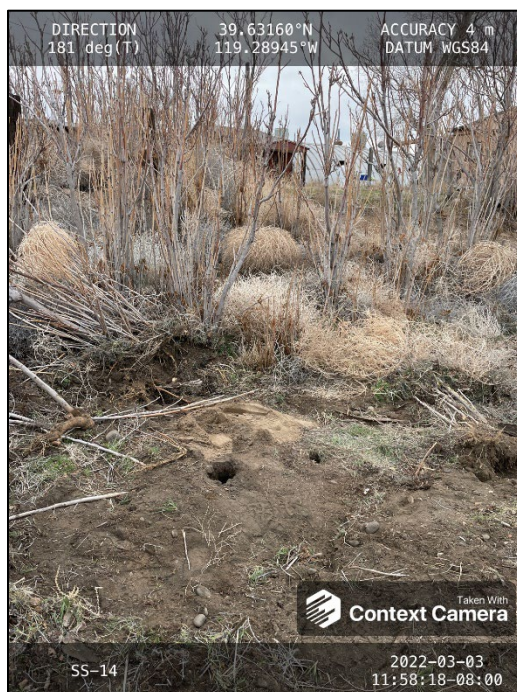
Photograph 11 taken by Morgan Sawyer. View facing southwest: Soil boring SS-11 location represented by the red dot.



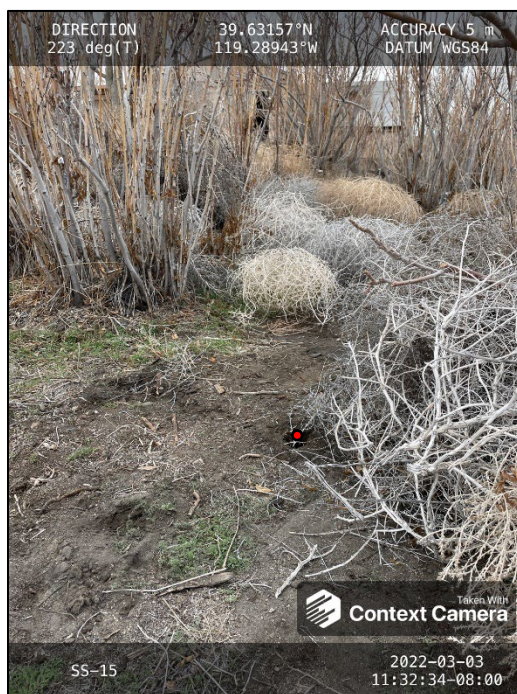
Photograph 12 taken by Morgan Sawyer. View facing south: Soil boring SS-12 location represented by the red dot.



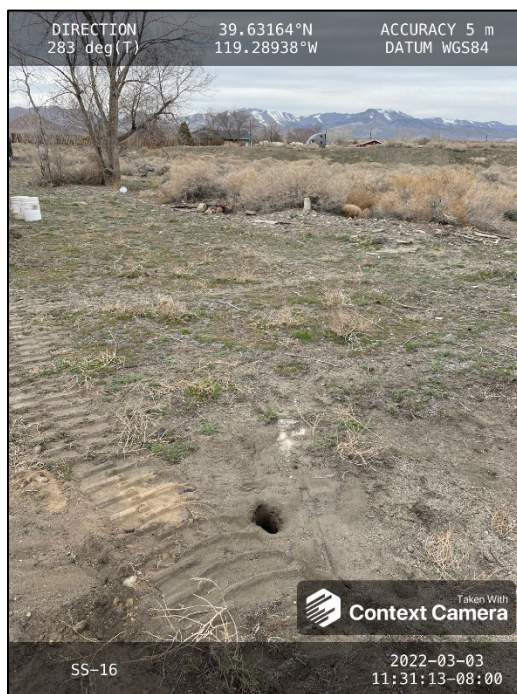
Photograph 13 taken by Morgan Sawyer. View facing east: Soil boring SS-13 location represented by the red dot.



Photograph 14 taken by Morgan Sawyer. View facing south: Soil boring SS-14.



Photograph 15 taken by Morgan Sawyer. View facing southwest: Soil boring SS-15 location represented by the red dot.



Photograph 16 taken by Morgan Sawyer. View facing northwest: Soil boring SS-16.



Photograph 17 taken by Morgan Sawyer. View facing southwest: Soil boring SS-17.

APPENDIX C LITHOLOGIC LOGS



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT - Smith Site

SITE ADDRESS: 319 Main St. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2"

SCREEN SLOT SIZE: -

SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/02/22

START: 9:20

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-1

STOP: ~~10:20~~ 10:20

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
				MOISTURE	COLOR					
3		SS-1	0	Dry	Black		Loose	coarse grain (angular poorly graded sands)	S P	-
6		SS-1	1.0	Dry	Tan		Loose	coarse grain (angular poorly graded sands)	S P	-
9										
12		SS-1	3.0	Dry	Tan		compact	coarse grain (very angular poorly graded sands)	S P	medium dense sands
15										
18		SS-1	3.0	Dry	Gray		compact	coarse (angular well graded sands)	S W	medium dense sands
21										
24										
27										
30										
33										
36										
39										
42										
45										
48										
51										

REFUSAL

Ran into
hard rock
at ~10'.
couldn't
drill past
21'. Target
was @ 50'.

TOTAL BORING DEPTH: 21'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

Using excel: CAD templates LITHOLOG.DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith Site

SITE ADDRESS: 319 Main St. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/02/2022

START: 11:00

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-2

STOP: 11:25

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jars

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1							Coarse grained		
2							(sub-angular, poorly		
3							graded)	S	
4		SS-2	0	Dry	Tan	Loose		P	-
5									
6									
7									
8									
9							Coarse grained		
10		SS-2	0.4	Dry	Tan	Loose	(angular, poorly graded)	S	-
11								P	
12									
13							Coarse grained		
14		SS-2	0.4	Dry	Tan	Loose	(angular, well graded)	S	-
15								W	

TOTAL BORING DEPTH: 15'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

\\neno-public\CAD\templates\LITHOLOG.DWG

PROJECT NAME: PLP - Smith site

SITE ADDRESS: 319 Main St. Wadsworth, NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: 1/2" SAND SIZE: 1/2"

LOGGED BY: Morgan Sawyer

DATE: 03/02/22

START: 12:05

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: 88-3

STOP: 12:20

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jars

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1							Coarse grained (angular, well graded)		
2									
3									
4		SS-3	0	Dry	Tan	Loose			S W
5									
6									
7									
8									
9							Coarse grained (sub-angular, well graded)		
10		SS-3	0	Dry	Tan	Loose			S W
11									
12									
13									
14									
15									
									XXXXXXXXXX couldn't push the geoprobe past 12'. Target was 15'. Hole kept collapsing.

TOTAL BORING DEPTH: 12'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

I:\ano\cs4\c\CAD\templates\LTIT\LOG.DWG

PROJECT NAME: PLPT-smith site

SITE ADDRESS: 319 Main St. Wadsworth NV 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: — SAND SIZE: —

LOGGED BY: Morgan Sawyer

DATE: 03/02/22

START: 12:50

DRILLING COMPANY: **EnProbe**

DRILLER: Josh

WELLID: SS-4

STOP: 13:00

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jars

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-4	0	Dry	Tan	Loose	coarse grained (sub-angular, well graded)	S W	—
2									
3									
4									
5									
6									
7									
8									
9		SS-4	0	Dry	Tan	Loose	coarse grained (sub-angular, well graded)	S W	—
10									
11									
12									
13									
14									
15									
16									
17		REFUSAL							could not push the geoprobe past 12'. Target was 15'. Hole kept collapsing.
18									
19									
20									
21									
22									
23									
24									

TOTAL BORING DEPTH: 12'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

Source: U.S. Census Bureau, Current Population Reports, 1990, 1995, 2000, 2005, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055, 2060, 2065, 2070, 2075, 2080, 2085, 2090, 2095, 2100, 2105, 2110, 2115, 2120, 2125, 2130, 2135, 2140, 2145, 2150, 2155, 2160, 2165, 2170, 2175, 2180, 2185, 2190, 2195, 2200, 2205, 2210, 2215, 2220, 2225, 2230, 2235, 2240, 2245, 2250, 2255, 2260, 2265, 2270, 2275, 2280, 2285, 2290, 2295, 2300, 2305, 2310, 2315, 2320, 2325, 2330, 2335, 2340, 2345, 2350, 2355, 2360, 2365, 2370, 2375, 2380, 2385, 2390, 2395, 2400, 2405, 2410, 2415, 2420, 2425, 2430, 2435, 2440, 2445, 2450, 2455, 2460, 2465, 2470, 2475, 2480, 2485, 2490, 2495, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2535, 2540, 2545, 2550, 2555, 2560, 2565, 2570, 2575, 2580, 2585, 2590, 2595, 2600, 2605, 2610, 2615, 2620, 2625, 2630, 2635, 2640, 2645, 2650, 2655, 2660, 2665, 2670, 2675, 2680, 2685, 2690, 2695, 2700, 2705, 2710, 2715, 2720, 2725, 2730, 2735, 2740, 2745, 2750, 2755, 2760, 2765, 2770, 2775, 2780, 2785, 2790, 2795, 2800, 2805, 2810, 2815, 2820, 2825, 2830, 2835, 2840, 2845, 2850, 2855, 2860, 2865, 2870, 2875, 2880, 2885, 2890, 2895, 2900, 2905, 2910, 2915, 2920, 2925, 2930, 2935, 2940, 2945, 2950, 2955, 2960, 2965, 2970, 2975, 2980, 2985, 2990, 2995, 3000, 3005, 3010, 3015, 3020, 3025, 3030, 3035, 3040, 3045, 3050, 3055, 3060, 3065, 3070, 3075, 3080, 3085, 3090, 3095, 3100, 3105, 3110, 3115, 3120, 3125, 3130, 3135, 3140, 3145, 3150, 3155, 3160, 3165, 3170, 3175, 3180, 3185, 3190, 3195, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3245, 3250, 3255, 3260, 3265, 3270, 3275, 3280, 3285, 3290, 3295, 3300, 3305, 3310, 3315, 3320, 3325, 3330, 3335, 3340, 3345, 3350, 3355, 3360, 3365, 3370, 3375, 3380, 3385, 3390, 3395, 3400, 3405, 3410, 3415, 3420, 3425, 3430, 3435, 3440, 3445, 3450, 3455, 3460, 3465, 3470, 3475, 3480, 3485, 3490, 3495, 3500, 3505, 3510, 3515, 3520, 3525, 3530, 3535, 3540, 3545, 3550, 3555, 3560, 3565, 3570, 3575, 3580, 3585, 3590, 3595, 3600, 3605, 3610, 3615, 3620, 3625, 3630, 3635, 3640, 3645, 3650, 3655, 3660, 3665, 3670, 3675, 3680, 3685, 3690, 3695, 3700, 3705, 3710, 3715, 3720, 3725, 3730, 3735, 3740, 3745, 3750, 3755, 3760, 3765, 3770, 3775, 3780, 3785, 3790, 3795, 3800, 3805, 3810, 3815, 3820, 3825, 3830, 3835, 3840, 3845, 3850, 3855, 3860, 3865, 3870, 3875, 3880, 3885, 3890, 3895, 3900, 3905, 3910, 3915, 3920, 3925, 3930, 3935, 3940, 3945, 3950, 3955, 3960, 3965, 3970, 3975, 3980, 3985, 3990, 3995, 4000, 4005, 4010, 4015, 4020, 4025, 4030, 4035, 4040, 4045, 4050, 4055, 4060, 4065, 4070, 4075, 4080, 4085, 4090, 4095, 4100, 4105, 4110, 4115, 4120, 4125, 4130, 4135, 4140, 4145, 4150, 4155, 4160, 4165, 4170, 4175, 4180, 4185, 4190, 4195, 4200, 4205, 4210, 4215, 4220, 4225, 4230, 4235, 4240, 4245, 4250, 4255, 4260, 4265, 4270, 4275, 4280, 4285, 4290, 4295, 4300, 4305, 4310, 4315, 4320, 4325, 4330, 4335, 4340, 4345, 4350, 4355, 4360, 4365, 4370, 4375, 4380, 4385, 4390, 4395, 4400, 4405, 4410, 4415, 4420, 4425, 4430, 4435, 4440, 4445, 4450, 4455, 4460, 4465, 4470, 4475, 4480, 4485, 4490, 4495, 4500, 4505, 4510, 4515, 4520, 4525, 4530, 4535, 4540, 4545, 4550, 4555, 4560, 4565, 4570, 4575, 4580, 4585, 4590, 4595, 4600, 4605, 4610, 4615, 4620, 4625, 4630, 4635, 4640, 4645, 4650, 4655, 4660, 4665, 4670, 4675, 4680, 4685, 4690, 4695, 4700, 4705, 4710, 4715, 4720, 4725, 4730, 4735, 4740, 4745, 4750, 4755, 4760, 4765, 4770, 4775, 4780, 4785, 4790, 4795, 4800, 4805, 4810, 4815, 4820, 4825, 4830, 4835, 4840, 4845, 4850, 4855, 4860, 4865, 4870, 4875, 4880, 4885, 4890, 4895, 4900, 4905, 4910, 4915, 4920, 4925, 4930, 4935, 4940, 4945, 4950, 4955, 4960, 4965, 4970, 4975, 4980, 4985, 4990, 4995, 5000, 5005, 5010, 5015, 5020, 5025, 5030, 5035, 5040, 5045, 5050, 5055, 5060, 5065, 5070, 5075, 5080, 5085, 5090, 5095, 5100, 5105, 5110, 5115, 5120, 5125, 5130, 5135, 5140, 5145, 5150, 5155, 5160, 5165, 5170, 5175, 5180, 5185, 5190, 5195, 5200, 5205, 5210, 5215, 5220, 5225, 5230, 5235, 5240, 5245, 5250, 5255, 5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325, 5330, 5335, 5340, 5345, 5350, 5355, 5360, 5365, 5370, 5375, 5380, 5385, 5



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT - Smith site SITE ADDRESS: 319 Main St. Wadsworth, NV, 89442

PROJECT NUMBER: 19-02-139 DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/02/22 START: 14:15 DRILLING COMPANY: EnProbe DRILLER: Josh

WELLID: SS-5 STOP: 14:40 DRILLING METHOD: Geoprobe SAMPLE METHOD: Jars

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY		GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1										coarse grain		
2										(sub-angular, very well		
3										graded)		
4		SS-5	0	Dry	Tan	Loose					SW	
5												
6												
7												
8										coarse grain		
9										(sub-angular, well graded)		
10		SS-5	0	Dry	Tan	Loose					SW	
11												
12										coarse grain		
13										(sub-angular, well		
14		SS-5	0	Dry	Tan	Loose				graded)	SW	
15										12'-14' very cobbly.		

TOTAL BORING DEPTH: 15'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

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ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

SITE ADDRESS: 319 Main St. Wadsworth NV. 89442

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

DRILLER: Tosh

SAMPLE METHOD: **Tax**

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-6	0	Dry	Tan	Loose		coarse grain (sub-angular, well graded)		S W	—
2											
3											
4											
5											
6											
7											
8											
9		SS-6	0	Dry	Tan	Loose		coarse grain (sub-angular, well graded)		S W	—
10											
11											
12											
13											
14											
15											
	R E F U S A L										could not push the geoprobe past 13'6". Target was 15'. Hole kept collapsing

ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

Version 2.0: 8/1/2010 CALY templates LITHLOG.CNV

PROJECT NAME: PLRT - Smith site

SITE ADDRESS: 385 Main St. Wadsworth NV 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: — SAND SIZE: —

LOGGED BY: Morgan Sawyer

DATE: 03/02/27

START: 15:15

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-7

STOP: 15:25

DRILLING METHOD: **Geoprobe**

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-7	D	Dry	Tan	Loose		coarse grained (angular, well graded)		S W	—
2											
3											
4											
5											
6											
7		SS-7	D	Dry	Tan	Loose		coarse grained (angular, well graded)		S W	—
8											
9											
10											
11											
12											
13	R E F U S A L								could not push the geoprobe past 11'8"		
14									Hole kept collapsing.		
15											

TOTAL BORING DEPTH: 11' 8"

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT - Smith site

SITE ADDRESS: 385 Main St. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 9:00

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-8

STOP: 9:25

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-8	0	Dry	Tan	Loose	Coarse grain (sub rounded well graded sands)	S	-
2								W	
3									
4									
5		SS-8	0	Dry	Tan	Loose	Coarse grain (sub-angular well graded sands)	S	-
6								W	
7									
8									
9		SS-8	0	Dry	Tan ↓ Light gray	Loose	Coarse grain (sub-angular well graded sands)	S	-
10								W	
11									
12									
13		SS-8	0	Dry	Tan	Loose	Coarse grain (sub-angular well graded sands)	S	-
14								W	
15									

TOTAL BORING DEPTH: 15'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY VARY AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

19mnp-jls-B: CAG bery-bent LITHO LOG.DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith Site

SITE ADDRESS: 319 Main St. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 12:50

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-9-00

STOP: 13:05

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1					Organics ↓		coarse grain (sub- angular poorly rounded graded sands)		grading varied between
2					Black			S	coarse sand to
3		SS-9-5	0	Moist		Loose		P	fine fine gravel
4					↓				Hit wood wood
5					Tan				at ~4.5 ft (ra End @ 13:00
6				Moist			coarse grain (sub-angular graded sands)		@ mostly coarse sand w/
7		SS-9-10	0		Tan	Loose		S	a 0.5' section of medium sand.
8									Grading varied from
9								W	medium sand to cobblers.
10				Dry					XXXXXXXXXX

TOTAL BORING DEPTH: 10'

PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH:

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1:1000 (scale) CAD template 11-11-00 DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith site SITE ADDRESS: 319 Main St. Wadsworth NV 89442

PROJECT NUMBER: 19-02-139 DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22 START: 14:15 DRILLING COMPANY: EnProbe DRILLER: Josh

WELLID: SS-10 STOP: 14:30 DRILLING METHOD: Geoprobe SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1									
2									
3		SS-10-5	0	Moist	Brown	Loose	coarse grain (sub-angular, well graded)	S	color change occurred at ~4'
4								W	consistency change at ~1'
5					Black				Grades ranged from coarse sands to cobbles
6				Moist	Black		coarse grain (sub-angular well graded)	S	End @ 14:30
7		SS-10-10	0			Loose		W	color + moisture changed at ~7 ft
8									Grades ranged from medium sands to cobbles
9				Dry	Tan				Medium sands ~0.5' thick from 5.5-6'
10									

TOTAL BORING DEPTH: 10'

PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

190602-01 CAU templates LITHO LOG.DWG

**BROADBENT & ASSOCIATES, INC.**

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOGPROJECT NAME: PLPT-Smith siteSITE ADDRESS: 319 Main St. Wadsworth NV, 89442PROJECT NUMBER: 19-02-139DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -LOGGED BY: Morgan SawyerDATE: 03/08/22START: 13:20DRILLING COMPANY: EnProbeDRILLER: JoshWELLID: SS-11STOP: 13:35DRILLING METHOD: GeoprobeSAMPLE METHOD: Jars

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE		COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-11-5	0	Dry		Tan	Loose	coarse grain (rounded well graded)	S W	grade varied between coarse sands & cobbles End @ 13:30
2										
3										
4										
5						Black				
6						Black		coarse grained (rounded well graded)	S	about 0.5' was medium to fine sands at 47ft.
7										
8		SS-11-10	0	Dry			Loose		W	The rest was coarse sands w/ cobbles.
9										
10						Tan				End @ 13:35

TOTAL BORING DEPTH: 10'PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH: _____

THIS STANDARD APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SURFACE AND SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.Version 10.0 04/2019 LITHOLOG.DWG

PROJECT NAME: PLPT-smith site

SITE ADDRESS: 319 Main St. Wadsworth NV 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 2:30

DRILLING COMPANY: **En Probe**

DRILLER: Josh

WELLID: SS-12

STOP: 12:50

DRILLING METHOD: Geo probe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-12-5	0	Dry	Tan	Loose	coarse grain (sub-rounded poorly graded) poorly	S P	End @ 12:35
2									
3									
4									
5		SS-12-10	0	Dry	Tan	Loose	coarse grain (sub-rounded, poorly graded)	S P	some medium coarse sand grains (~10% of boring) 90% coarse sands) End @ 12:50
6									
7									
8									
9									could not push the geoprobe past 9'. Target was 10'. Hole kept collapsing.
10									

TOTAL BORING DEPTH: 9'

PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

Lippman et al. • Ca^{2+} Homeostasis in the Cerebellar PGC



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith site SITE ADDRESS: 319 Main St Wadsworth NV, 89442

PROJECT NUMBER: 19-02-189 DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22 START: 12:05 DRILLING COMPANY: EnProbe DRILLER: Josh

WELLID: SS-13 STOP: 12:15 DRILLING METHOD: Hand Auger SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
				MOISTURE							
1		SS-13-2	0	Moist	Dark		Brown	Loose	coarse grain (sub-rounded well graded)	S	coarse sands to cobbles End @ 12:10
2									coarse grain (sub-rounded graded, but not enough to be considered well graded)		some medium sands but mostly coarse sands (~90%) grades went into fine gravel
3		SS-13-5	0	Dry	Tan			Loose		P	End @ 12:15
4											
5											

TOTAL BORING DEPTH: 5'

PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH: _____

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1 in 1000 plot by CAD using AutoCAD LITHOLOG.DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith site

SITE ADDRESS: 319 Main St. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 11:30

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-14

STOP: 11:50

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-14-2	0	Moist			Brown ↓	Loose	coarse grain (sub-rounded well graded sands)	S W	color change was gradational End @ 11:40
2				Moist			Black ↓		coarse grain (rounded well graded sands)		
3		SS-14-5	0				Brown ↓	Loose		S W	color + moisture change at ~4.5 - 4.75' End @ 11:50
4							↓				
5				Dry			Tan ↓				

TOTAL BORING DEPTH: 5'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND
MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

1/2020 PLS B. CAD 10/10/2019 LITHOLOG.DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT - Smith site SITE ADDRESS: 319 Main St. Wadsworth NV, 89442
PROJECT NUMBER: 19-02-139 DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -
LOGGED BY: Morgan Sawyer
DATE: 03/03/22 START: 10:40 DRILLING COMPANY: EnProbe DRILLER: Josh
WELLID: SS-15 STOP: 11:10 DRILLING METHOD: Geoprobe SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1											
		SS-15-2	0	Dry	Black			Loose	coarse grained (rounded well graded sands)	S	organics for 1st foot. 100% Tons of rocks. End @ 11:10
2											
				Moist Dry	Black				coarse grained (sub-angular well graded sands)		color change & moisture change at ~3.5ft
3										S	(coarser at top becomes finer w/ depth. & more rounded)
		SS-15-5	0							W	End @ 11:10
4											
				Moist	Tan						
6											

TOTAL BORING DEPTH: 5'

PAGE NO: 1 OF 1

ESTIMATED GROUND WATER DEPTH: _____

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MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

1:10:00 (1:10:00) Logging & Data Collection



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT - Smith Site

SITE ADDRESS: 319 Main St Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: - SAND SIZE: -

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 9:55:00 10:15

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: ~~SS-16-2~~ SS-16

STOP: ~~10:20:00~~ 10:30

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE			COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-16-2	0	Moist	Light Brown			Loose	coarse grain (rounded, poorly graded)	S P	End @ 10:20
2					Dark gray				coarse grain (rounded, poorly graded)	S	End @ 10:30
3		SS-16-5	0	Moist				Loose		P	
4											
5											

TOTAL BORING DEPTH: 5'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH: _____

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE DATE OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

1 inch = 1 foot CAD: 1999/03/03 B&A LITHO LOG.DWG



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: PLPT-Smith Site

SITE ADDRESS: 385 Main H. Wadsworth NV, 89442

PROJECT NUMBER: 19-02-139

DIAMETER: 2" SCREEN SLOT SIZE: — SAND SIZE: —

LOGGED BY: Morgan Sawyer

DATE: 03/03/22

START: 9:50

DRILLING COMPANY: EnProbe

DRILLER: Josh

WELLID: SS-17

STOP: 10:00

DRILLING METHOD: Geoprobe

SAMPLE METHOD: Jar

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1		SS-17-2	0	Dry	Light Brown	Loose	coarse grain (rounded poorly graded sands)	S P	End @ 9:55
2					Tan		coarse grain (sub-angular poorly graded sands)	S	End @ 10:00
3		SS-17-5	0	Dry		Loose		P	
4					Dark gray				
5									

TOTAL BORING DEPTH: 5'

PAGE NO: 1 OF 1



ESTIMATED GROUND WATER DEPTH:

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. SLURRY FACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

1/2019 JWB CAD Templates LITHOLOG.DWG

APPENDIX D

LABORATORY ANALYTICAL REPORTS



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

March 10, 2022

Josh Fortmann
Broadbent & Associates
5450 Louie Lane, #101
Reno, NV 89511
TEL: (775) 322-7969
FAX: (775) 322-7956
RE: 19-02-139/PLPT-Smith

Order No.: BBA2203072

Dear Josh Fortmann:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Randy Gardner".

Randy Gardner
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 9:25:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-01

Matrix: SOIL

Client Sample ID: SS-8

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	121	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	121	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:00:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-02

Matrix: SOIL

Client Sample ID: SS-9-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	16	10	L	mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	72	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	102	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	97	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	97	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:05:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-03

Matrix: SOIL

Client Sample ID: SS-9-10

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	26	10	LC	mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	210	10	C	mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	110	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	320		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	320		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	320		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	110	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

NOTES:

Reporting Limit(s) increased due to sample foaming.

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 2:30:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-04

Matrix: SOIL

Client Sample ID: SS-10-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	14	10	L	mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	39	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	101	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 2:20:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-05

Matrix: SOIL

Client Sample ID: SS-10-10

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:30:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-06

Matrix: SOIL

Client Sample ID: SS-11-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	160		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	160		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	160		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	40		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

NOTES:

Reporting Limit(s) increased due to sample foaming.



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TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:35:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-07

Matrix: SOIL

Client Sample ID: SS-11-10

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	91	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	119	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	91	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	119	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:35:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-08

Matrix: SOIL

Client Sample ID: SS-11-10D

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	100	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	114	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	114	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 1:35:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-09

Matrix: SOIL

Client Sample ID: SS-11-MS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	100	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 12:35:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-10

Matrix: SOIL

Client Sample ID: SS-12-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
TPH-E (ORO)	11	10		mg/Kg	3/5/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/5/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	109	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 12:50:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-11

Matrix: SOIL

Client Sample ID: SS-12-10

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	111	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 12:10:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-12

Matrix: SOIL

Client Sample ID: SS-13-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	9.3	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Arsenic (As)	4.0	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/10/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Barium (Ba)	59	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/10/2022	Metals by EPA 6020
Lead (Pb)	41	1.0		mg/Kg	3/10/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	99	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	109	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	13	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	114	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C



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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 12:15:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-13

Matrix: SOIL

Client Sample ID: SS-13-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	15	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	4.0	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	21	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	98	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	112	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	96	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	110	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:40:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-14

Matrix: SOIL

Client Sample ID: SS-14-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	18	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.9	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	17	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	101	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	106	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	119	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C



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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:50:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-15

Matrix: SOIL

Client Sample ID: SS-14-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	20	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.3	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	5.8	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	97	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	106	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	12	10	L	mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	32	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	104	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	97	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C



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255 Glendale Ave, #21
Sparks, Nevada 89431
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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:00:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-16

Matrix: SOIL

Client Sample ID: SS-15-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	15	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.6	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	89	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	210	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Phenanthrene	110	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluoranthene	240	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Pyrene	240	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	120	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Chrysene	130	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	250	50		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	76	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	80	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	98	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	79	52-130		%Rec	3/10/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	84	54-158		%Rec	3/10/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	49	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	99	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	113	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:10:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-17

Matrix: SOIL

Client Sample ID: SS-15-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	21	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	4.7	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	130	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	33	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	94	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	104	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	19	10	L	mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	160	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	112	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:15:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-18

Matrix: SOIL

Client Sample ID: SS-15-5D

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	14	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	6.0	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	130	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	0.41	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	92	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	26	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Phenanthrene	130	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluoranthene	350	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Pyrene	340	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	150	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Chrysene	160	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	280	50		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	110	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	81	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	110	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	87	52-130		%Rec	3/10/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	82	54-158		%Rec	3/10/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	112	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 11:20:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-19

Matrix: SOIL

Client Sample ID: SS-15-MS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	18	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.7	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	1.1	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	150	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	0.73	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	160	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	200	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	550	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	510	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	180	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	370	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	520	250		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	230	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	220	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	220	120		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	93	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	100	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM

NOTES:

Reporting Limit(s) increased due to sample matrix interferences.

TPH-E (DRO)	22	10	L	mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	95	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C



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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 10:20:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-20

Matrix: SOIL

Client Sample ID: SS-16-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	21	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	11	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	100	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	6.0	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	103	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	108	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/8/2022	TPH-E by EPA 8015C
Surr: Nonane	96	66-134		%Rec	3/8/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	109	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 10:30:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-21

Matrix: SOIL

Client Sample ID: SS-16-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	19	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	7.8	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	83	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Phenanthrene	36	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluoranthene	56	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Pyrene	46	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Chrysene	34	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	78	52-130		%Rec	3/10/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	82	54-158		%Rec	3/10/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	19	10	L	mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	76	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	103	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/8/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	111	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C



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Analytical Report

WO#: BBA2203072

Report Date: 3/10/2022

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 9:55:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-22

Matrix: SOIL

Client Sample ID: SS-17-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	22	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.1	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	5.1	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Phenanthrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Fluoranthene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Chrysene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/9/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	98	52-130		%Rec	3/9/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	102	54-158		%Rec	3/9/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	ND	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/8/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	112	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C

CLIENT: Broadbent & Associates

Collection Date: 3/3/2022 10:00:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203072-23

Matrix: SOIL

Client Sample ID: SS-17-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	15	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Arsenic (As)	5.7	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Selenium (Se)	ND	2.0		mg/Kg	3/9/2022	Metals by EPA 6020
Silver (Ag)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Cadmium (Cd)	ND	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Barium (Ba)	110	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Mercury (Hg)	ND	0.20		mg/Kg	3/9/2022	Metals by EPA 6020
Lead (Pb)	130	1.0		mg/Kg	3/9/2022	Metals by EPA 6020
Naphthalene	42	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
2-Methylnaphthalene	52	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
1-Methylnaphthalene	74	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Acenaphthene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluorene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Phenanthrene	100	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Fluoranthene	77	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Pyrene	61	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)anthracene	27	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Chrysene	45	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	50		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	25		µg/Kg	3/10/2022	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	89	52-130		%Rec	3/10/2022	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	93	54-158		%Rec	3/10/2022	PNAs by EPA 8270SIM
TPH-E (DRO)	24	10	L	mg/Kg	3/9/2022	TPH-E by EPA 8015C
TPH-E (ORO)	81	10		mg/Kg	3/9/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/9/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/8/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	113	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	3/8/2022	TPH-P by EPA 8015C

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: METALS_SO

Sample ID: MB-15608			SampType: MBLK			TestCode: METALS_SO			Units: mg/Kg		
Client ID: PBS			Batch ID: 15608			TestNo: E200.8					
Prep Date: 3/8/2022			RunNo: 14503			SeqNo: 416323					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	ND	1									
Arsenic (As)	ND	1									
Selenium (Se)	ND	2									
Silver (Ag)	ND	1									
Cadmium (Cd)	ND	1									
Barium (Ba)	ND	1									
Mercury (Hg)	ND	0.2									
Lead (Pb)	ND	1									

Sample ID: LCS-15608			SampType: LCS			TestCode: METALS_SO		Units: mg/Kg			
Client ID: LCSS			Batch ID: 15608			TestNo: E200.8					
Prep Date: 3/8/2022			RunNo: 14503			SeqNo: 416346					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	50.7	1	50	0	101	79.51	120.49				
Arsenic (As)	51.1	1	50	0	102	79.51	120.49				
Selenium (Se)	46.7	2	50	0	93.4	79.51	120.49				
Silver (Ag)	53.2	1	50	0	106	79.51	120.49				
Cadmium (Cd)	50.6	1	50	0	101	79.51	120.49				
Barium (Ba)	48.5	1	50	0	97.0	79.51	120.49				
Mercury (Hg)	1.12	0.2	1	0	112	79.51	120.49				
Lead (Pb)	51.2	1	50	0	102	79.51	120.49				

Sample ID: 2203072-12AMSD			SampType: MSD			TestCode: METALS_SO		Units: mg/Kg			
Client ID: SS-13-2MSD			Batch ID: 15608			TestNo: E200.8					
Prep Date: 3/8/2022			RunNo: 14503			SeqNo: 416327					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	67.8	1	50	9.32	117	69.51	130.49	70.9	4.4	20	
Arsenic (As)	58.4	1	50	3.98	109	69.51	130.49	58.9	0.81	20	
Selenium (Se)	51.7	2	50	0	103	69.51	130.49	54.4	5.1	20	
Silver (Ag)	52.6	1	50	0	105	69.51	130.49	52.2	0.68	20	
Cadmium (Cd)	50.2	1	50	0	100	69.51	130.49	50.1	0.16	20	
Barium (Ba)	204	1	50	58.5	291	69.51	130.49	139	38	20	RS
Mercury (Hg)	1.03	0.2	1	0	103	69.51	130.49	1.07	3.4	20	
Lead (Pb)	177	1	50	41	273	69.51	130.49	143	22	20	RS

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 2203072

10-Mar-22

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: METALS_SO

Sample ID: 2203072-12AMSD	SampType: MSD	TestCode: METALS_SO	Units: mg/Kg
Client ID: SS-13-2MSD	Batch ID: 15608	TestNo: E200.8	
Prep Date: 3/8/2022	RunNo: 14503	SeqNo: 416327	
Analysis Date: 3/9/2022			
Analyte	Result	PQL	SPK Value
			SPK Ref Val
			%REC
			LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Sample ID: 2203072-12AMS	SampType: MS	TestCode: METALS_SO	Units: mg/Kg
Client ID: SS-13-2MS	Batch ID: 15608	TestNo: E200.8	
Prep Date: 3/8/2022	RunNo: 14503	SeqNo: 416326	
Analysis Date: 3/9/2022			
Analyte	Result	PQL	SPK Value
			SPK Ref Val
			%REC
			LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual
Chromium (Cr)	70.9	1	50
Arsenic (As)	58.9	1	50
Selenium (Se)	54.4	2	50
Silver (Ag)	52.2	1	50
Cadmium (Cd)	50.1	1	50
Barium (Ba)	139	1	50
Mercury (Hg)	1.07	0.2	1
Lead (Pb)	143	1	50

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: PNA_SIM_S

Sample ID: MB-15585			SampType: MBLK			TestCode: PNA_SIM_S			Units: µg/Kg		
Client ID: PBS			Batch ID: 15585			TestNo: SW8270C					
Prep Date: 3/4/2022			RunNo: 14524			SeqNo: 417245					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	25									
2-Methylnaphthalene	ND	25									
1-Methylnaphthalene	ND	25									
Acenaphthylene	ND	25									
Acenaphthene	ND	25									
Fluorene	ND	25									
Phenanthrene	ND	25									
Anthracene	ND	25									
Fluoranthene	ND	25									
Pyrene	ND	25									
Benzo(a)anthracene	ND	25									
Chrysene	ND	25									
Benzo(b&k)fluoranthene, isomeric pair	ND	50									
Benzo(a)pyrene	ND	25									
Indeno(1,2,3-cd)pyrene	ND	25									
Dibenz(a,h)anthracene	ND	25									
Benzo(g,h,i)perylene	ND	25									
Surr: 2-Fluorobiphenyl	320		312.5		102	48.7	168				
Surr: 4-Terphenyl-d14	350		312.5		113	36.7	182				

Sample ID: LCS-15585			SampType: LCS			TestCode: PNA_SIM_S		Units: µg/Kg			
Client ID: LCSS			Batch ID: 15585			TestNo: SW8270C					
Prep Date: 3/4/2022			RunNo: 14524			SeqNo: 417254					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	288	25	312.5	0	92.3	79.5	160				
2-Methylnaphthalene	351	25	312.5	0	112	61.6	155				
1-Methylnaphthalene	316	25	312.5	0	101	79.5	158				
Acenaphthylene	343	25	312.5	0	110	79.5	176				
Acenaphthene	308	25	312.5	0	98.5	79.5	167				
Fluorene	340	25	312.5	0	109	79.5	160				
Phenanthrene	270	25	312.5	0	86.3	61.8	150				
Anthracene	274	25	312.5	0	87.6	79.5	166				
Fluoranthene	304	25	312.5	0	97.1	78	158				
Pyrene	312	25	312.5	0	99.7	75	163				
Benzo(a)anthracene	266	25	312.5	0	85.0	22.8	178				
Chrysene	328	25	312.5	0	105	60.9	183				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: PNA_SIM_S

Sample ID: LCS-15585			SampType: LCS			TestCode: PNA_SIM_S		Units: µg/Kg			
Client ID: LCSS			Batch ID: 15585			TestNo: SW8270C					
Prep Date: 3/4/2022			RunNo: 14524			SeqNo: 417254					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b&k)fluoranthene, isomeric pair	575	50	625	0	92.0	69.7	171				
Benzo(a)pyrene	269	25	312.5	0	86.2	55.2	163				
Indeno(1,2,3-cd)pyrene	256	25	312.5	0	82.0	59.5	151				
Dibenz(a,h)anthracene	260	25	312.5	0	83.3	41.5	159				
Benzo(g,h,i)perylene	275	25	312.5	0	87.9	72.8	160				
Surr: 2-Fluorobiphenyl	294		312.5		94.1	80	153				
Surr: 4-Terphenyl-d14	309		312.5		99.0	73.3	160				

Sample ID: 2203072-12AMSD			SampType: MSD			TestCode: PNA_SIM_S		Units: µg/Kg			
Client ID: SS-13-2MSD			Batch ID: 15585			TestNo: SW8270C					
Prep Date: 3/4/2022			RunNo: 14524			SeqNo: 417256					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	298	25	312.5	0	95.4	67	123	322	7.7	32	
2-Methylnaphthalene	366	25	312.5	0	117	46	156	403	9.4	33	
1-Methylnaphthalene	348	25	312.5	0	111	45	158	365	4.8	30	
Acenaphthylene	388	25	312.5	0	124	31	172	397	2.3	36	
Acenaphthene	313	25	312.5	0	100	51	139	338	7.7	32	
Fluorene	337	25	312.5	0	108	45	159	371	9.5	42	
Phenanthrene	289	25	312.5	0	92.5	30	133	324	11	33	
Anthracene	282	25	312.5	20.2	83.8	36	135	302	6.9	42	
Fluoranthene	328	25	312.5	22.8	97.5	47	139	353	7.6	40	
Pyrene	335	25	312.5	0	107	50	135	365	8.8	49	
Benzo(a)anthracene	288	25	312.5	0	92.3	42	155	324	12	43	
Chrysene	327	25	312.5	0	105	55	129	349	6.3	36	
Benzo(b&k)fluoranthene, isomeric pair	582	50	625	0	93.1	47	143	641	9.7	43	
Benzo(a)pyrene	281	25	312.5	0	90.1	52	123	302	6.9	34	
Indeno(1,2,3-cd)pyrene	240	25	312.5	14.7	72.0	35	169	267	11	45	
Dibenz(a,h)anthracene	246	25	312.5	0	78.6	23	213	275	11	47	
Benzo(g,h,i)perylene	260	25	312.5	0	83.3	50	147	282	8.1	50	
Surr: 2-Fluorobiphenyl	329		312.5		105	59	130	336	0	0	
Surr: 4-Terphenyl-d14	319		312.5		102	70	138	355	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: PNA_SIM_S

Sample ID: 2203072-12AMS			SampType: MS			TestCode: PNA_SIM_S		Units: µg/Kg			
Client ID: SS-13-2MS			Batch ID: 15585			TestNo: SW8270C					
Prep Date: 3/4/2022			RunNo: 14524			SeqNo: 417255					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	322	25	312.5	0	103	67	123				
2-Methylnaphthalene	403	25	312.5	0	129	46	156				
1-Methylnaphthalene	365	25	312.5	0	117	45	158				
Acenaphthylene	397	25	312.5	0	127	31	172				
Acenaphthene	338	25	312.5	0	108	51	139				
Fluorene	371	25	312.5	0	119	45	159				
Phenanthrene	324	25	312.5	0	104	30	133				
Anthracene	302	25	312.5	20.2	90.3	36	135				
Fluoranthene	353	25	312.5	22.8	106	47	139				
Pyrene	365	25	312.5	0	117	50	135				
Benzo(a)anthracene	324	25	312.5	0	104	42	155				
Chrysene	349	25	312.5	0	112	55	129				
Benzo(b&k)fluoranthene, isomeric pair	641	50	625	0	103	47	143				
Benzo(a)pyrene	302	25	312.5	0	96.5	52	123				
Indeno(1,2,3-cd)pyrene	267	25	312.5	14.7	80.7	35	169				
Dibenz(a,h)anthracene	275	25	312.5	0	88.1	23	213				
Benzo(g,h,i)perylene	282	25	312.5	0	90.4	50	147				
Surr: 2-Fluorobiphenyl	336		312.5		108	59	130				
Surr: 4-Terphenyl-d14	355		312.5		113	70	138				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/E_S

Sample ID: MB-15581			SampType: MBLK			TestCode: TPH/E_S			Units: mg/Kg		
Client ID: PBS			Batch ID: 15581			TestNo: SW8015			SW8015		
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414967					
Analysis Date: 3/5/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	5									
TPH-E (ORO)	ND	10									
Surr: Nonane	6.1		6		101	66	134				

Sample ID: LCS-15581			SampType: LCS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: LCSS			Batch ID: 15581			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414968					
Analysis Date: 3/5/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	100	5	100	0	100	79.4	120.49				
Surr: Nonane	5.93		6		98.9	78	138				

Sample ID: 2203072-09AMSD			SampType: MSD			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-11-MSMSD			Batch ID: 15581			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414975					
Analysis Date: 3/5/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	105	5	100	6.05	98.6	59.8	136	106	1.1	37.9	
Surr: Nonane	6		6		100	63	134	6.08	0	0	

Sample ID: 2203072-09AMS			SampType: MS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-11-MSMS			Batch ID: 15581			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414974					
Analysis Date: 3/5/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	106	5	100	6.05	99.8	59.8	136				
Surr: Nonane	6.08		6		101	63	134				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/E_S

Sample ID: MB-15619			SampType: MBLK			TestCode: TPH/E_S			Units: mg/Kg		
Client ID: PBS			Batch ID: 15619			TestNo: SW8015			SW8015		
Prep Date: 3/8/2022			RunNo: 14501			SeqNo: 416276					
Analysis Date: 3/8/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	5									
TPH-E (ORO)	ND	10									
Surr: Nonane	5.8		6		97.0	66	134				

Sample ID: LCS-15619			SampType: LCS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: LCSS			Batch ID: 15619			TestNo: SW8015		SW8015			
Prep Date: 3/8/2022			RunNo: 14501			SeqNo: 416277					
Analysis Date: 3/8/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	102	5	100	0	102	79.4	120.49				
Surr: Nonane	6.04		6		101	78	138				

Sample ID: 2203072-19AMSD			SampType: MSD			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-15-MSMSD			Batch ID: 15619			TestNo: SW8015		SW8015			
Prep Date: 3/8/2022			RunNo: 14501			SeqNo: 416296					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	115	5	100	22.5	92.7	59.8	136	117	1.8	37.9	
Surr: Nonane	6.18		6		103	63	134	6.03	0	0	

Sample ID: 2203072-19AMS			SampType: MS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-15-MSMS			Batch ID: 15619			TestNo: SW8015		SW8015			
Prep Date: 3/8/2022			RunNo: 14501			SeqNo: 416295					
Analysis Date: 3/9/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	117	5	100	22.5	94.7	59.8	136				
Surr: Nonane	6.03		6		100	63	134				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/P_S

Sample ID: MB-15565			SampType: MBLK			TestCode: TPH/P_S			Units: mg/Kg		
Client ID: PBS			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415611					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	1									
Surr: 1,2-Dichloroethane-d4	0.2		0.2		97.5	69.51	130.49				
Surr: Toluene-d8	0.21		0.2		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.2		0.2		98.2	69.51	130.49				

Sample ID: GLCS-15565			SampType: GLCS			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: BatchQC			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415612					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	13.4	2	16	0	83.6	64.64	146.49				
Surr: 1,2-Dichloroethane-d4	0.382		0.4		95.5	69.51	130.49				
Surr: Toluene-d8	0.407		0.4		102	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.373		0.4		93.2	69.51	130.49				

Sample ID: 2203066-01AGSD			SampType: GSD			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: BatchQC			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/3/2022			RunNo: 14479			SeqNo: 415614					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	12.6	2	16	0	78.7	57.6	179	12.4	1.5	19.4	
Surr: 1,2-Dichloroethane-d4	0.377		0.4		94.2	69.51	130.49	0.38	0	0	
Surr: Toluene-d8	0.409		0.4		102	69.51	130.49	0.404	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.4		92.5	69.51	130.49	0.375	0	0	

Sample ID: 2203066-01AGS			SampType: GS			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: BatchQC			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/3/2022			RunNo: 14479			SeqNo: 415613					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	12.4	2	16	0	77.5	57.6	179				
Surr: 1,2-Dichloroethane-d4	0.38		0.4		95.0	69.51	130.49				
Surr: Toluene-d8	0.404		0.4		101	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.375		0.4		93.7	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/P_S

Sample ID: 2203066-01AGS				SampType: GS		TestCode: TPH/P_S		Units: mg/Kg			
Client ID: BatchQC				Batch ID: A15565B		TestNo: SW8015					
Prep Date: 3/3/2022				RunNo: 14479		SeqNo: 415613					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-15579			SampType: MBLK			TestCode: TPH/P_S			Units: mg/Kg		
Client ID: PBS			Batch ID: A15579B			TestNo: SW8015					
Prep Date: 3/4/2022			RunNo: 14491			SeqNo: 415585					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	ND	1									
Surr: 1,2-Dichloroethane-d4	0.18		0.2		88.7	69.51	130.49				
Surr: Toluene-d8	0.24		0.2		122	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.23		0.2		116	69.51	130.49				

Sample ID: GLCS-15579			SampType: GLCS			TestCode: TPH/P_S			Units: mg/Kg		
Client ID: BatchQC			Batch ID: A15579B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14491			SeqNo: 415586					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	13.2	2	16	0	82.4	64.64	146.49				
Surr: 1,2-Dichloroethane-d4	0.356		0.4		89.1	69.51	130.49				
Surr: Toluene-d8	0.46		0.4		115	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.425		0.4		106	69.51	130.49				

Sample ID: 2203072-12AGSD				SampType: GSD		TestCode: TPH/P_S			Units: mg/Kg		
Client ID: SS-13-2				Batch ID: A15579B		TestNo: SW8015					
Prep Date: 3/7/2022				RunNo: 14491		SeqNo: 415584					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-P (GRO)	12.5	2	16	0	78.3	57.6	179	13.4	6.8	19.4	
Surr: 1,2-Dichloroethane-d4	0.355		0.4		88.8	69.51	130.49	0.363	0	0	
Surr: Toluene-d8	0.458		0.4		114	69.51	130.49	0.455	0	0	
Surr: 4-Bromofluorobenzene	0.418		0.4		104	69.51	130.49	0.394	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/P_S

Sample ID: 2203072-12AGS			SampType: GS			TestCode: TPH/P_S			Units: mg/Kg		
Client ID: SS-13-2			Batch ID: A15579B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14491			SeqNo: 415583					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	13.4	2	16	0	83.8	57.6	179				
Surr: 1,2-Dichloroethane-d4	0.363		0.4		90.8	69.51	130.49				
Surr: Toluene-d8	0.455		0.4		114	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.394		0.4		98.6	69.51	130.49				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: MB-15579			SampType: MBLK			TestCode: VOC_S			Units: µg/Kg		
Client ID: PBS			Batch ID: A15579			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14491			SeqNo: 415579					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	40									
Vinyl chloride	ND	20									
Chloroethane	ND	20									
Bromomethane	ND	40									
Trichlorofluoromethane	ND	20									
1,1-Dichloroethene	ND	20									
Dichloromethane	ND	40									
trans-1,2-Dichloroethene	ND	20									
1,1-Dichloroethane	ND	20									
cis-1,2-Dichloroethene	ND	20									
Chloroform	ND	20									
1,2-Dichloroethane	ND	20									
1,1,1-Trichloroethane	ND	20									
Carbon tetrachloride	ND	20									
Benzene	ND	5									
1,2-Dichloropropane	ND	20									
Trichloroethene	ND	20									
Bromodichloromethane	ND	20									
cis-1,3-Dichloropropene	ND	20									
trans-1,3-Dichloropropene	ND	20									
1,1,2-Trichloroethane	ND	20									
Toluene	ND	5									
Dibromochloromethane	ND	20									
Tetrachloroethene	ND	20									
Chlorobenzene	ND	20									
Ethylbenzene	ND	5									
Bromoform	ND	20									
Xylenes, Total	ND	5									
1,1,2,2-Tetrachloroethane	ND	20									
1,3-Dichlorobenzene	ND	20									
1,4-Dichlorobenzene	ND	20									
1,2-Dichlorobenzene	ND	20									
Surr: 1,2-Dichloroethane-d4	180		200		88.7	69.51	130.49				
Surr: Toluene-d8	240		200		122	69.51	130.49				
Surr: 4-Bromofluorobenzene	230		200		116	69.51	130.49				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: LCS-15579			SampType: LCS			TestCode: VOC_S		Units: µg/Kg			
Client ID: LCSS			Batch ID: A15579			TestNo: SW8260C					
Prep Date: 3/4/2022			RunNo: 14491			SeqNo: 415580					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	173	80	400	0	43.2	5.73	179				
Vinyl chloride	245	40	400	0	61.2	37.8	194				
Chloroethane	89	40	400	0	22.3	13.4	120.4				
Bromomethane	62.3	80	400	0	15.6	7.97	129				
Trichlorofluoromethane	120	40	400	0	29.9	2.11	120.4				
1,1-Dichloroethene	241	40	400	0	60.3	31.3	154				
Dichloromethane	338	80	400	0	84.6	45.9	180				
trans-1,2-Dichloroethene	373	40	400	0	93.4	52.1	140				
1,1-Dichloroethane	338	40	400	0	84.5	53.8	140				
cis-1,2-Dichloroethene	371	40	400	0	92.7	54.6	133				
Chloroform	331	40	400	0	82.8	53.3	126				
1,2-Dichloroethane	308	40	400	0	76.9	56.8	132				
1,1,1-Trichloroethane	339	40	400	0	84.7	44.1	133				
Carbon tetrachloride	315	40	400	0	78.9	20	133				
Benzene	348	10	400	0	86.9	59.1	135				
1,2-Dichloropropane	339	40	400	0	84.7	59	134				
Trichloroethene	347	40	400	0	86.7	54.8	136				
Bromodichloromethane	298	40	400	0	74.6	31.5	128				
cis-1,3-Dichloropropene	315	40	400	0	78.7	32.8	133				
trans-1,3-Dichloropropene	287	40	400	0	71.7	31.8	134				
1,1,2-Trichloroethane	317	40	400	0	79.1	61.2	141				
Toluene	362	10	400	0	90.4	45.6	133				
Dibromochloromethane	351	40	400	0	87.8	30	133				
Tetrachloroethene	375	40	400	0	93.6	36.1	139				
Chlorobenzene	352	40	400	0	88.0	56.4	134				
Ethylbenzene	343	10	400	0	85.7	50.1	135				
Bromoform	319	40	400	0	79.9	35.5	136				
Xylenes, Total	697	10	800	0	87.1	57.4	135				
1,1,2,2-Tetrachloroethane	333	40	400	0	83.3	36.7	184				
1,3-Dichlorobenzene	365	40	400	0	91.3	55.9	130				
1,4-Dichlorobenzene	337	40	400	0	84.2	52.6	132				
1,2-Dichlorobenzene	359	40	400	0	89.7	56.6	127				
Surr: 1,2-Dichloroethane-d4	361		400		90.2	69.51	130.4				
Surr: Toluene-d8	429		400		107	69.51	130.4				
Surr: 4-Bromofluorobenzene	427		400		107	69.51	130.4				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: 2203072-09AMSD			SampType: MSD			TestCode: VOC_S		Units: µg/Kg			
Client ID: SS-11-MSMSD			Batch ID: A15579			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14491			SeqNo: 415582					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	262	80	400	0	65.5	11.3	167	137	62	27.1	R
Vinyl chloride	329	40	400	0	82.3	21.4	183	217	41	27.3	R
Chloroethane	94.4	40	400	0	23.6	2.79	110	82.9	13	33.6	
Bromomethane	80.8	80	400	0	20.2	2.99	142	56.4	36	43.8	
Trichlorofluoromethane	119	40	400	0	29.8	13.5	130	109	8.9	39	
1,1-Dichloroethene	270	40	400	0	67.6	12	159	248	8.6	38.6	
Dichloromethane	330	80	400	0	82.5	57.7	149	344	4.1	29.3	
trans-1,2-Dichloroethene	375	40	400	0	93.7	51	140	391	4.2	34	
1,1-Dichloroethane	343	40	400	0	85.7	58	132	340	0.69	24.6	
cis-1,2-Dichloroethene	384	40	400	0	95.9	57.8	133	383	0.26	24.7	
Chloroform	333	40	400	0	83.3	56.3	127	346	3.8	23.5	
1,2-Dichloroethane	304	40	400	0	76.0	57.5	126	321	5.5	23.2	
1,1,1-Trichloroethane	348	40	400	0	87.0	49.8	135	354	1.7	27	
Carbon tetrachloride	322	40	400	0	80.5	24.3	147	335	3.8	29.4	
Benzene	350	10	400	0	87.5	62.9	132	357	2	24.1	
1,2-Dichloropropane	336	40	400	0	84.0	63	130	357	6	23.5	
Trichloroethene	354	40	400	0	88.5	56.3	138	361	2.1	24.2	
Bromodichloromethane	299	40	400	0	74.9	37	135	315	5.2	24.4	
cis-1,3-Dichloropropene	315	40	400	0	78.8	37.3	144	333	5.4	24.3	
trans-1,3-Dichloropropene	290	40	400	0	72.6	36.5	148	302	3.8	24.3	
1,1,2-Trichloroethane	321	40	400	0	80.3	64	131	342	6.2	22	
Toluene	369	10	400	0	92.1	56.4	133	390	5.7	24.1	
Dibromochloromethane	352	40	400	0	87.9	37.4	139	384	8.9	26	
Tetrachloroethene	391	40	400	0	97.7	42.2	146	407	4.1	26.5	
Chlorobenzene	363	40	400	0	90.8	65.1	134	384	5.6	23.1	
Ethylbenzene	359	10	400	0	89.8	60.6	137	380	5.5	24.4	
Bromoform	333	40	400	0	83.3	47.1	127	334	0.17	26.6	
Xylenes, Total	733	10	800	0	91.7	62.5	144	746	1.7	24.2	
1,1,2,2-Tetrachloroethane	347	40	400	0	86.8	49.8	160	379	8.7	27.9	
1,3-Dichlorobenzene	370	40	400	0	92.6	62.1	138	387	4.4	24.8	
1,4-Dichlorobenzene	351	40	400	0	87.8	59.2	140	348	0.88	23.8	
1,2-Dichlorobenzene	357	40	400	0	89.3	63	129	371	3.9	24.7	
Surr: 1,2-Dichloroethane-d4	364		400		90.9	69.51	130.49	348	0	0	
Surr: Toluene-d8	437		400		109	69.51	130.49	431	0	0	
Surr: 4-Bromofluorobenzene	428		400		107	69.51	130.49	424	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: 2203072-09AMS			SampType: MS			TestCode: VOC_S		Units: µg/Kg			
Client ID: SS-11-MSMS			Batch ID: A15579			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14491			SeqNo: 415581					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	137	80	400	0	34.4	11.3	167				
Vinyl chloride	217	40	400	0	54.1	21.4	183				
Chloroethane	82.9	40	400	0	20.7	2.79	110				
Bromomethane	56.4	80	400	0	14.1	2.99	142				
Trichlorofluoromethane	109	40	400	0	27.3	13.5	130				
1,1-Dichloroethene	248	40	400	0	62.0	12	159				
Dichloromethane	344	80	400	0	85.9	57.7	149				
trans-1,2-Dichloroethene	391	40	400	0	97.8	51	140				
1,1-Dichloroethane	340	40	400	0	85.1	58	132				
cis-1,2-Dichloroethene	383	40	400	0	95.7	57.8	133				
Chloroform	346	40	400	0	86.5	56.3	127				
1,2-Dichloroethane	321	40	400	0	80.4	57.5	126				
1,1,1-Trichloroethane	354	40	400	0	88.5	49.8	135				
Carbon tetrachloride	335	40	400	0	83.6	24.3	147				
Benzene	357	10	400	0	89.3	62.9	132				
1,2-Dichloropropane	357	40	400	0	89.2	63	130				
Trichloroethene	361	40	400	0	90.3	56.3	138				
Bromodichloromethane	315	40	400	0	78.8	37	135				
cis-1,3-Dichloropropene	333	40	400	0	83.2	37.3	144				
trans-1,3-Dichloropropene	302	40	400	0	75.5	36.5	148				
1,1,2-Trichloroethane	342	40	400	0	85.4	64	131				
Toluene	390	10	400	0	97.5	56.4	133				
Dibromochloromethane	384	40	400	0	96.1	37.4	139				
Tetrachloroethene	407	40	400	0	102	42.2	146				
Chlorobenzene	384	40	400	0	96.1	65.1	134				
Ethylbenzene	380	10	400	0	94.9	60.6	137				
Bromoform	334	40	400	0	83.5	47.1	127				
Xylenes, Total	746	10	800	0	93.2	62.5	144				
1,1,2,2-Tetrachloroethane	379	40	400	0	94.7	49.8	160				
1,3-Dichlorobenzene	387	40	400	0	96.8	62.1	138				
1,4-Dichlorobenzene	348	40	400	0	87.0	59.2	140				
1,2-Dichlorobenzene	371	40	400	0	92.8	63	129				
Surr: 1,2-Dichloroethane-d4	348		400		86.9	69.51	130.49				
Surr: Toluene-d8	431		400		108	69.51	130.49				
Surr: 4-Bromofluorobenzene	424		400		106	69.51	130.49				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Definition Only

WO#: 2203072
Date: 3/10/2022

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's Josh Fortmann

WORKORDER SUMMARY

NV

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder: BBA2203072

Report Due By: 10-Mar-22

EDD Required: NO

Report Attention: Josh Fortmann

Client:

Broadbent & Associates
5450 Louie Lane, #101
Reno, NV 89511

TEL: (775) 322-7969

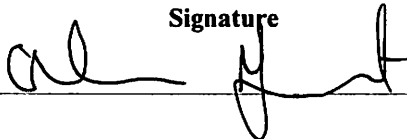
FAX: (775) 322-7956

ProjectNo: 19-02-139/PLPT-Smith

Date Received: 03-Mar-22

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks
				Alpha	Sub	TAT	METALS_SO	PNA_SIM_S	TPH/E_S	TPHP_S	VOC_S		
BBA2203072-01	SS-8	SO	3/3/2022 9:25:00 AM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-02	SS-9-5	SO	3/3/2022 1:00:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-03	SS-9-10	SO	3/3/2022 1:05:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-04	SS-10-5	SO	3/3/2022 2:30:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-05	SS-10-10	SO	3/3/2022 2:20:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-06	SS-11-5	SO	3/3/2022 1:30:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-07	SS-11-10	SO	3/3/2022 1:35:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-08	SS-11-10D	SO	3/3/2022 1:35:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		
BBA2203072-09	SS-11-MS	SO	3/3/2022 1:35:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		MS/MSD
BBA2203072-10	SS-12-5	SO	3/3/2022 12:35:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns		

Comments: Total Xylenes. 1 8oz. Jar and 3 25g Encores for samples -01 through -11. Samples kept cold and secure until login on 03/04/2022.

Logged in by:	Signature	Print Name	Company	Date/Time
		Alicia Triubet	Alpha Analytical, Inc.	03/04/2022 0914

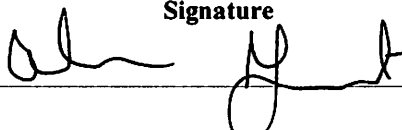
NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic Other

Page 40 of 43

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests							Sample Remarks
				Alpha	Sub	TAT	METALS_SO	PNA_SIM_S	TPH/E_S	TPH/P_S	VOC_S			
BBA2203072-11	SS-12-10	SO	3/3/2022 12:50:00 PM	4	0	5			A - TPH/E_N	A - GAS-N	A - 8260_Ns			
BBA2203072-12	SS-13-2	SO	3/3/2022 12:10:00 PM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				Mislabeled, matched by time.
BBA2203072-13	SS-13-5	SO	3/3/2022 12:15:00 PM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-14	SS-14-2	SO	3/3/2022 11:40:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-15	SS-14-5	SO	3/3/2022 11:50:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-16	SS-15-2	SO	3/3/2022 11:00:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-17	SS-15-5	SO	3/3/2022 11:10:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-18	SS-15-5D	SO	3/3/2022 11:15:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				Time on jars 11:10
BBA2203072-19	SS-15-MS	SO	3/3/2022 11:20:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				MS/MSD, time on jars 11:10
BBA2203072-20	SS-16-2	SO	3/3/2022 10:20:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				No time on jars
BBA2203072-21	SS-16-5	SO	3/3/2022 10:30:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-22	SS-17-2	SO	3/3/2022 9:55:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				
BBA2203072-23	SS-17-5	SO	3/3/2022 10:00:00 AM	3	0	5	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se	A - SIM	A - TPH/E_N	A - GAS-N				1 jar mislabeled, matched by time

Comments: Total Xylenes. 1 8oz. Jar and 3 25g Encores for samples -01 through -11. Samples kept cold and secure until login on 03/04/2022.

Logged in by:		Print Name	<u>Alicia Grubel</u>	Company	<u>Alpha Analytical, Inc.</u>	Date/Time	<u>03/04/2022</u> <u>0915</u>
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NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:
Company: Broadbent
Attn: Josh Fortmann
Address: _____
City, State, Zip: Reno, NV
Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
Northern NV: 350 7th St. Elko, NV 89801

Phone: 775-355-1044
Fax: 775-355-0406
Phone: 916-366-9089
Phone: 775-388-7043

Page # 1 of 2

Consultant/ Client Info:
Company: Broadbent
Address: _____
City, State, Zip: Reno, NV

Job and Purchase Order Info:
Job # 19-02-139
Job Name: PLPT-Smith
P.O. #: 19-02-139

Report Attention/Project Manager:
Name: Josh Fortmann
Email Address: _____
Phone #: 775-322-7969
Cell #: _____

QC Deliverable Info:
EDD Required? Yes ☒ No ☐ EDF Required? Yes ☒ No ☐
Global ID: _____
Date Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA Other

				Analysis Requested										Remarks	
Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered? (Yes / No)		# Containers** (See Key Below)							
						Yes	No								
0925	3/3	So	BBA2203072-01	SS-8	St.		X	4	X	X					
1300			02	SS-9-5											
1305			03	SS-9-10											
1430			04	SS-10-5											
1420			05	SS-10-10											
1330			06	SS-11-5											
1335			07	SS-11-10											
1335			08	SS-11-10D											
1335			09	SS-11-MS											
1235			10	SS-12-5											
1250			11	SS-12-10											
1210	✓	✓	12	SS-13-2	✓	✓	✓	3	✓		X	X			

ADDITIONAL INSTRUCTIONS:

3 Encores for VOCs
8oz Jar for TPH, SVOCs, & metals

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: <u>M. J. [Signature]</u>	Date: <u>03/03/22</u>	Time: <u>14:55</u>	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>03/03/2022</u>	Time: <u>14:55</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

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* Key: AQ - Aqueous AR-Air OT - Other SO - Soil WA-Waste **: B - Brass L - Liter O - Orbo OT-Other S-Soil Jar T - Tedlar V-VOA

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
Company: Broadbent
Attn: Josh Fortmann
Address: _____
City, State, Zip: Reno, NV
Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
Northern CA: 8991 Horn Road, Suite C, Rancho Cordova, CA 95827
Northern NV: 350 7th St. Elko, NV 89801

Phone: 775-355-1044
Fax: 775-355-0406
Phone: 916-366-9089
Phone: 775-388-7043

Page # 2 of 2

Consultant/ Client Info:
Company: Broadbent
Address: _____
City, State, Zip: Reno, NV

Job and Purchase Order Info:
Job #: 19-02-139
Job Name: PLPT - Smith
P.O. #: 19-02-139

Report Attention/Project Manager:
Name: Josh Fortmann
Email Address: _____
Phone #: 775-322-7969
Cell #: _____

QC Deliverable Info:
EDD Required? Yes No EDF Required? Yes No
Global ID: _____
Date Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered? (Yes / No)		# Containers** (See Key Below)	Analysis Requested										Remarks
						Yes	No												
1215	3/3	So	BBA2203072-13	SS-13-5	St.		X	43	X	X	X								
1140				14 SS-14-2															
1150				15 SS-14-5															
1100				16 SS-15-2															
1110				17 SS-15-5															
1115				18 SS-15-5D															
1120				19 SS-15-MS															
1020				20 SS-16-2															
1030				21 SS-16-5															
0955				22 SS-17-2															
1000	↓	↓		23 SS-17-5															

ADDITIONAL INSTRUCTIONS:

3 Encores & 8 oz jar

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: <u>M. J. [Signature]</u>	Date: <u>03/03/22</u>	Time: <u>14:55</u>	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>03/03/2022</u>	Time: <u>1550</u>
Relinquished by: (Signature/Affiliation): <u>M. J. [Signature]</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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* Key: AQ - Aqueous AR-Air OT - Other SO - Soil WA-Waste **: B - Brass L - Liter O - Orbo OT-Other S-Soil Jar T - Tedlar V-VOA

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

March 09, 2022

Josh Fortmann
Broadbent & Associates
5450 Louie Lane, #101
Reno, NV 89511
TEL: (775) 322-7969
FAX: (775) 322-7956
RE: 19-02-139/PLPT-Smith

Order No.: BBA2203066

Dear Josh Fortmann:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Randy Gardner".

Randy Gardner
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 10:17:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-01

Matrix: SOIL

Client Sample ID: SS-1

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	100	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	103	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	93	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	103	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 11:25:00 AM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-02

Matrix: SOIL

Client Sample ID: SS-2

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	105	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	105	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 12:20:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-03

Matrix: SOIL

Client Sample ID: SS-3

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	100	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	99	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 1:00:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-04

Matrix: SOIL

Client Sample ID: SS-4

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	107	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	94	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	107	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 2:45:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-05

Matrix: SOIL

Client Sample ID: SS-5

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	100	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 1:55:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-06

Matrix: SOIL

Client Sample ID: SS-6

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	23	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	105	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	105	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 2:45:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-07

Matrix: SOIL

Client Sample ID: SS-5D

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	97	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Website: www.alpha-analytical.com

Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 2:45:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-08

Matrix: SOIL

Client Sample ID: SS-5-MS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	104	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	106	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	3/7/2022	VOCs by EPA 8260B



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Analytical Report

WO#: BBA2203066

Report Date: 3/9/2022

CLIENT: Broadbent & Associates

Collection Date: 3/2/2022 3:25:00 PM

Project: 19-02-139/PLPT-Smith

Lab ID: 2203066-09

Matrix: SOIL

Client Sample ID: SS-7

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
TPH-E (DRO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
TPH-E (ORO)	ND	10		mg/Kg	3/4/2022	TPH-E by EPA 8015C
Surr: Nonane	98	66-134		%Rec	3/4/2022	TPH-E by EPA 8015C
TPH-P (GRO)	ND	10		mg/Kg	3/7/2022	TPH-P by EPA 8015C
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: Toluene-d8	108	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	3/7/2022	TPH-P by EPA 8015C
Chloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Vinyl chloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromomethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichlorofluoromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dichloromethane	ND	80		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,2-Dichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chloroform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,1-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Carbon tetrachloride	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Benzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichloropropane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Trichloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromodichloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
cis-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
trans-1,3-Dichloropropene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2-Trichloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Toluene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Dibromochloromethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Tetrachloroethene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Chlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Ethylbenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Bromoform	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Xylenes, Total	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,1,2,2-Tetrachloroethane	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,3-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,4-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
1,2-Dichlorobenzene	ND	20		µg/Kg	3/7/2022	VOCs by EPA 8260B
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: Toluene-d8	108	70-130		%Rec	3/7/2022	VOCs by EPA 8260B
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	3/7/2022	VOCs by EPA 8260B

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/E_S

Sample ID: MB-15580			SampType: MBLK			TestCode: TPH/E_S			Units: mg/Kg		
Client ID: PBS			Batch ID: 15580			TestNo: SW8015			SW8015		
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414953					
Analysis Date: 3/4/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	5									
TPH-E (ORO)	ND	10									
Surr: Nonane	5.9		6		99.0	66	134				

Sample ID: LCS-15580			SampType: LCS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: LCSS			Batch ID: 15580			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414954					
Analysis Date: 3/4/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	99.8	5	100	0	99.8	79.4	120.49				
Surr: Nonane	5.91		6		98.5	78	138				

Sample ID: 2203066-08AMSD			SampType: MSD			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-5-MSMSD			Batch ID: 15580			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414964					
Analysis Date: 3/4/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	105	5	100	4.72	99.8	59.8	136	106	1.1	37.9	
Surr: Nonane	6.08		6		101	63	134	6.1	0	0	

Sample ID: 2203066-08AMS			SampType: MS			TestCode: TPH/E_S		Units: mg/Kg			
Client ID: SS-5-MSMS			Batch ID: 15580			TestNo: SW8015		SW8015			
Prep Date: 3/4/2022			RunNo: 14477			SeqNo: 414963					
Analysis Date: 3/4/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	106	5	100	4.72	101	59.8	136				
Surr: Nonane	6.1		6		102	63	134				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/P_S

Sample ID: MB-15565			SampType: MBLK			TestCode: TPH/P_S			Units: mg/Kg		
Client ID: PBS			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415611					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	1									
Surr: 1,2-Dichloroethane-d4	0.2		0.2		97.5	69.51	130.49				
Surr: Toluene-d8	0.21		0.2		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.2		0.2		98.2	69.51	130.49				

Sample ID: GLCS-15565			SampType: GLCS			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: BatchQC			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415612					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	13.4	2	16	0	83.6	64.64	146.49				
Surr: 1,2-Dichloroethane-d4	0.382		0.4		95.5	69.51	130.49				
Surr: Toluene-d8	0.407		0.4		102	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.373		0.4		93.2	69.51	130.49				

Sample ID: 2203066-01AGSD			SampType: GSD			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: SS-1			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/3/2022			RunNo: 14479			SeqNo: 415614					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	12.6	2	16	0	78.7	57.6	179	12.4	1.5	19.4	
Surr: 1,2-Dichloroethane-d4	0.377		0.4		94.2	69.51	130.49	0.38	0	0	
Surr: Toluene-d8	0.409		0.4		102	69.51	130.49	0.404	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.4		92.5	69.51	130.49	0.375	0	0	

Sample ID: 2203066-01AGS			SampType: GS			TestCode: TPH/P_S		Units: mg/Kg			
Client ID: SS-1			Batch ID: A15565B			TestNo: SW8015					
Prep Date: 3/3/2022			RunNo: 14479			SeqNo: 415613					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	12.4	2	16	0	77.5	57.6	179				
Surr: 1,2-Dichloroethane-d4	0.38		0.4		95.0	69.51	130.49				
Surr: Toluene-d8	0.404		0.4		101	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.375		0.4		93.7	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 2203066

09-Mar-22

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: TPH/P_S

Sample ID: 2203066-01AGS				SampType: GS		TestCode: TPH/P_S		Units: mg/Kg			
Client ID: SS-1				Batch ID: A15565B		TestNo: SW8015					
Prep Date: 3/3/2022				RunNo: 14479		SeqNo: 415613					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: MB-15565	SampType: MBLK	TestCode: VOC_S	Units: µg/Kg
Client ID: PBS	Batch ID: A15565	TestNo: SW8260C	
Prep Date: 3/7/2022	RunNo: 14479	SeqNo: 415598	
Analysis Date: 3/7/2022			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	40									
Vinyl chloride	ND	20									
Chloroethane	ND	20									
Bromomethane	ND	40									
Trichlorofluoromethane	ND	20									
1,1-Dichloroethene	ND	20									
Dichloromethane	ND	40									
trans-1,2-Dichloroethene	ND	20									
1,1-Dichloroethane	ND	20									
cis-1,2-Dichloroethene	ND	20									
Chloroform	ND	20									
1,2-Dichloroethane	ND	20									
1,1,1-Trichloroethane	ND	20									
Carbon tetrachloride	ND	20									
Benzene	ND	5									
1,2-Dichloropropane	ND	20									
Trichloroethene	ND	20									
Bromodichloromethane	ND	20									
cis-1,3-Dichloropropene	ND	20									
trans-1,3-Dichloropropene	ND	20									
1,1,2-Trichloroethane	ND	20									
Toluene	ND	5									
Dibromochloromethane	ND	20									
Tetrachloroethene	ND	20									
Chlorobenzene	ND	20									
Ethylbenzene	ND	5									
Bromoform	ND	20									
Xylenes, Total	ND	5									
1,1,2,2-Tetrachloroethane	ND	20									
1,3-Dichlorobenzene	ND	20									
1,4-Dichlorobenzene	ND	20									
1,2-Dichlorobenzene	ND	20									
Surr: 1,2-Dichloroethane-d4	200		200		97.5	69.51	130.49				
Surr: Toluene-d8	210		200		107	69.51	130.49				
Surr: 4-Bromofluorobenzene	200		200		98.2	69.51	130.49				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: LCS-15565			SampType: LCS			TestCode: VOC_S		Units: µg/Kg			
Client ID: LCSS			Batch ID: A15565			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415599					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	314	80	400	0	78.5	5.73	179				
Vinyl chloride	311	40	400	0	77.8	37.8	194				
Chloroethane	236	40	400	0	59.0	13.4	120.4				
Bromomethane	467	80	400	0	117	7.97	129				
Trichlorofluoromethane	74.2	40	400	0	18.6	2.11	120.4				
1,1-Dichloroethene	286	40	400	0	71.4	31.3	154				
Dichloromethane	447	80	400	0	112	45.9	180				
trans-1,2-Dichloroethene	406	40	400	0	102	52.1	140				
1,1-Dichloroethane	360	40	400	0	90.0	53.8	140				
cis-1,2-Dichloroethene	348	40	400	0	87.1	54.6	133				
Chloroform	337	40	400	0	84.2	53.3	126				
1,2-Dichloroethane	332	40	400	0	83.1	56.8	132				
1,1,1-Trichloroethane	371	40	400	0	92.7	44.1	133				
Carbon tetrachloride	352	40	400	0	88.0	20	133				
Benzene	345	10	400	0	86.3	59.1	135				
1,2-Dichloropropane	348	40	400	0	87.1	59	134				
Trichloroethene	355	40	400	0	88.8	54.8	136				
Bromodichloromethane	315	40	400	0	78.7	31.5	128				
cis-1,3-Dichloropropene	333	40	400	0	83.2	32.8	133				
trans-1,3-Dichloropropene	337	40	400	0	84.3	31.8	134				
1,1,2-Trichloroethane	295	40	400	0	73.7	61.2	141				
Toluene	332	10	400	0	83.0	45.6	133				
Dibromochloromethane	294	40	400	0	73.5	30	133				
Tetrachloroethene	344	40	400	0	86.0	36.1	139				
Chlorobenzene	320	40	400	0	79.9	56.4	134				
Ethylbenzene	356	10	400	0	88.9	50.1	135				
Bromoform	288	40	400	0	72.0	35.5	136				
Xylenes, Total	662	10	800	0	82.8	57.4	135				
1,1,2,2-Tetrachloroethane	282	40	400	0	70.4	36.7	184				
1,3-Dichlorobenzene	347	40	400	0	86.8	55.9	130				
1,4-Dichlorobenzene	352	40	400	0	88.0	52.6	132				
1,2-Dichlorobenzene	308	40	400	0	76.9	56.6	127				
Surr: 1,2-Dichloroethane-d4	402		400		101	69.51	130.4				
Surr: Toluene-d8	402		400		101	69.51	130.4				
Surr: 4-Bromofluorobenzene	333		400		83.2	69.51	130.4				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: 2203066-08AMSD			SampType: MSD			TestCode: VOC_S		Units: µg/Kg			
Client ID: SS-5-MSMSD			Batch ID: A15565			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415601					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	340	80	400	0	85.0	11.3	167	260	27	27.1	
Vinyl chloride	333	40	400	0	83.3	21.4	183	288	15	27.3	
Chloroethane	218	40	400	0	54.5	2.79	110	235	7.4	33.6	
Bromomethane	474	80	400	0	118	2.99	142	462	2.5	43.8	
Trichlorofluoromethane	70.8	40	400	0	17.7	13.5	130	73.8	4.2	39	
1,1-Dichloroethene	270	40	400	0	67.5	12	159	235	14	38.6	
Dichloromethane	405	80	400	0	101	57.7	149	404	0.25	29.3	
trans-1,2-Dichloroethene	404	40	400	0	101	51	140	420	3.9	34	
1,1-Dichloroethane	359	40	400	0	89.7	58	132	380	5.6	24.6	
cis-1,2-Dichloroethene	352	40	400	0	88.0	57.8	133	369	4.7	24.7	
Chloroform	335	40	400	0	83.6	56.3	127	354	5.7	23.5	
1,2-Dichloroethane	319	40	400	0	79.7	57.5	126	340	6.4	23.2	
1,1,1-Trichloroethane	368	40	400	0	91.9	49.8	135	387	5.1	27	
Carbon tetrachloride	349	40	400	0	87.2	24.3	147	367	5.2	29.4	
Benzene	345	10	400	0	86.4	62.9	132	367	6.1	24.1	
1,2-Dichloropropane	337	40	400	0	84.2	63	130	365	8.1	23.5	
Trichloroethene	355	40	400	0	88.8	56.3	138	371	4.3	24.2	
Bromodichloromethane	315	40	400	0	78.7	37	135	333	5.6	24.4	
cis-1,3-Dichloropropene	333	40	400	0	83.2	37.3	144	356	6.7	24.3	
trans-1,3-Dichloropropene	342	40	400	0	85.5	36.5	148	368	7.4	24.3	
1,1,2-Trichloroethane	292	40	400	0	73.0	64	131	317	8.2	22	
Toluene	331	10	400	0	82.9	56.4	133	351	5.8	24.1	
Dibromochloromethane	300	40	400	0	75.0	37.4	139	324	7.6	26	
Tetrachloroethene	344	40	400	0	86.1	42.2	146	367	6.4	26.5	
Chlorobenzene	318	40	400	0	79.4	65.1	134	345	8.1	23.1	
Ethylbenzene	353	10	400	0	88.3	60.6	137	385	8.7	24.4	
Bromoform	298	40	400	0	74.6	47.1	127	320	7	26.6	
Xylenes, Total	664	10	800	0	83.0	62.5	144	721	8.3	24.2	
1,1,2,2-Tetrachloroethane	284	40	400	0	70.9	49.8	160	318	11	27.9	
1,3-Dichlorobenzene	345	40	400	0	86.3	62.1	138	388	12	24.8	
1,4-Dichlorobenzene	350	40	400	0	87.4	59.2	140	391	11	23.8	
1,2-Dichlorobenzene	308	40	400	0	77.0	63	129	340	9.8	24.7	
Surr: 1,2-Dichloroethane-d4	395		400		98.7	69.51	130.49	389	0	0	
Surr: Toluene-d8	403		400		101	69.51	130.49	408	0	0	
Surr: 4-Bromofluorobenzene	327		400		81.7	69.51	130.49	333	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2203066

09-Mar-22

Client: Broadbent & Associates

Project: 19-02-139/PLPT-Smith

TestCode: VOC_S

Sample ID: 2203066-08AMS			SampType: MS			TestCode: VOC_S		Units: µg/Kg			
Client ID: SS-5-MSMS			Batch ID: A15565			TestNo: SW8260C					
Prep Date: 3/7/2022			RunNo: 14479			SeqNo: 415600					
Analysis Date: 3/7/2022											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	260	80	400	0	65.0	11.3	167				
Vinyl chloride	288	40	400	0	72.0	21.4	183				
Chloroethane	235	40	400	0	58.6	2.79	110				
Bromomethane	462	80	400	0	115	2.99	142				
Trichlorofluoromethane	73.8	40	400	0	18.5	13.5	130				
1,1-Dichloroethene	235	40	400	0	58.7	12	159				
Dichloromethane	404	80	400	0	101	57.7	149				
trans-1,2-Dichloroethene	420	40	400	0	105	51	140				
1,1-Dichloroethane	380	40	400	0	94.9	58	132				
cis-1,2-Dichloroethene	369	40	400	0	92.2	57.8	133				
Chloroform	354	40	400	0	88.6	56.3	127				
1,2-Dichloroethane	340	40	400	0	85.0	57.5	126				
1,1,1-Trichloroethane	387	40	400	0	96.8	49.8	135				
Carbon tetrachloride	367	40	400	0	91.9	24.3	147				
Benzene	367	10	400	0	91.8	62.9	132				
1,2-Dichloropropane	365	40	400	0	91.2	63	130				
Trichloroethene	371	40	400	0	92.7	56.3	138				
Bromodichloromethane	333	40	400	0	83.2	37	135				
cis-1,3-Dichloropropene	356	40	400	0	89.0	37.3	144				
trans-1,3-Dichloropropene	368	40	400	0	92.0	36.5	148				
1,1,2-Trichloroethane	317	40	400	0	79.2	64	131				
Toluene	351	10	400	0	87.8	56.4	133				
Dibromochloromethane	324	40	400	0	81.0	37.4	139				
Tetrachloroethene	367	40	400	0	91.8	42.2	146				
Chlorobenzene	345	40	400	0	86.1	65.1	134				
Ethylbenzene	385	10	400	0	96.3	60.6	137				
Bromoform	320	40	400	0	80.0	47.1	127				
Xylenes, Total	721	10	800	0	90.1	62.5	144				
1,1,2,2-Tetrachloroethane	318	40	400	0	79.5	49.8	160				
1,3-Dichlorobenzene	388	40	400	0	97.1	62.1	138				
1,4-Dichlorobenzene	391	40	400	0	97.8	59.2	140				
1,2-Dichlorobenzene	340	40	400	0	85.0	63	129				
Surr: 1,2-Dichloroethane-d4	389		400		97.2	69.51	130.49				
Surr: Toluene-d8	408		400		102	69.51	130.49				
Surr: 4-Bromofluorobenzene	333		400		83.2	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Definition Only

WO#: 2203066
Date: 3/9/2022

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's Josh Fortmann

WORKORDER SUMMARY

NV

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder: BBA2203066

Report Due By: 10-Mar-22

EDD Required: YES

Report Attention: Josh Fortmann

Client:

Broadbent & Associates
5450 Louie Lane, #101
Reno, NV 89511

TEL: (775) 322-7969

FAX: (775) 322-7956

ProjectNo: 19-02-139/PLPT-Smith

Date Received: 02-Mar-22

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha Sub TAT			Requested Tests							Sample Remarks
							TPHE_S	TPH/P_S	VOC_S					
BBA2203066-01	SS-1	SO	3/2/2022 10:17:00 AM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-02	SS-2	SO	3/2/2022 11:25:00 AM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-03	SS-3	SO	3/2/2022 12:20:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-04	SS-4	SO	3/2/2022 1:00:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-05	SS-5	SO	3/2/2022 2:45:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-06	SS-6	SO	3/2/2022 1:55:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-07	SS-5D	SO	3/2/2022 2:45:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					
BBA2203066-08	SS-5-MS	SO	3/2/2022 2:45:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					MS/MSD
BBA2203066-09	SS-7	SO	3/2/2022 3:25:00 PM	4	0	5	A - TPHE_N	A - GAS-N	A - 8260_Ns					

Comments: Total Xylenes. Samples received after 16:00 cutoff time, therefore, one day added to due date. Samples kept cold and secure until login on 03/03/22. 1 8oz. Jar and 3 25g Encores for all samples.

Signature	Print Name	Company	Date/Time
Logged in by: 	Alicia Trisler	Alpha Analytical, Inc.	03/03/2022 0904

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
Northern NV: 350 7th St. Elko, NV 89801

Phone: 775-355-1044
Fax: 775-355-0406

Phone: 916-366-9089

Phone: 775-388-7043

Page # 1 of 1

Consultant/ Client Info:
Company: Broadbent
Address: _____
City, State, Zip: Reno NV

Job and Purchase Order Info:
19-02-139
me: PLPT-Smith
19-02-139

Report Attention/Project Manager:
Name: Josh Fortmann
Email Address: _____
Phone #: 775-322-7969
Cell #: _____

QC Deliverable Info:

ed? Yes ☒ No EDF Required? Yes ☒ No

on Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA Other

[illegible]

ADDITIONAL INSTRUCTIONS:

3 Encore samples are for 8260 VOCs
8 oz pr for 8015

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

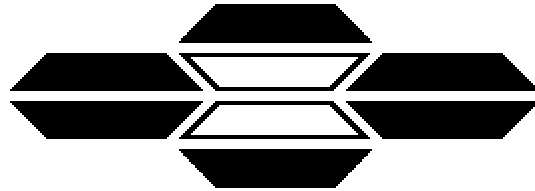
Sampled By: <i>[Signature]</i> Relinquished by: (Signature/Affiliation):	Date: <i>3-2-22</i>	Time: <i>1610</i>	Received by: (Signature/Affiliation): <i>[Signature]</i>	Date: <i>3-2-22</i>	Time: <i>1610</i>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

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Page 20 of 20

* Key: AQ - Aqueous AR-Air OT - Other SO - Soil WA-Waste **: B - Brass L - Liter O - Orbo OT-Other S-Soil Jar T - Tedlar V-VOA

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 377800

3431 Ettie St.
Oakland, CA 94608
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



California DPH
ELAP ID #1866

Mar/17/2022

Brandon Reiff
Broadbent & Associates
5450 Louie Lane #101
Reno, NV 89511

RE: LABORATORY JOB # 377800
Atomic Absorption Spectroscopy analytical results for 20 paint sample(s).
Job Site: PLPT-Smith Site
Job No.: 19-02-139

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Sincerely Yours,

Laboratory Manager
ASBESTOS TEM LABORATORIES, INC.

Note: Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits.

Additional Note: Wherever possible, Asbestos TEM Laboratories highly recommends the submission of field blanks with each sample set. It is recommended to analyze field blanks collected in parallel to all samples collected in the field as a check against media contamination from the manufacturer or in the field. Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Disclaimer - These results relate only to the samples tested as received and must not be reproduced, except in full, with the approval of the laboratory. Incorrect or illegible information supplied by the customer may adversely affect the validity of test results. This report must not be used to claim product endorsement by AIHA or any other agency of the U.S. Government.

**ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)**

Page: **3** of **4**

Contact: Brandon Reiff		Samples Submitted: 20		Report No.: 377800	
Address: Broadbent & Associates		Samples Analyzed: 20		Date Submitted: Mar-04-22	
5450 Louie Lane #101		Job Site / No.		Date Reported: Mar-17-22	
Reno, NV 89511		PLPT-Smith Site			
		19-02-139			
SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION	
LBP-1 Lab ID # 1562-00005-001	Pb	< 45 mg/kg < 0.005 %	45 mg/kg 0.005 %	Building 1 teal green exterior wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2234	
LBP-2 Lab ID # 1562-00005-002	Pb	130000 mg/kg 13.000 %	47 mg/kg 0.005 %	Building 1 white door frame Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2127	
LBP-3 Lab ID # 1562-00005-003	Pb	86000 mg/kg 8.600 %	40 mg/kg 0.004 %	Building 1 white exterior wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2507	
LBP-4 Lab ID # 1562-00005-004	Pb	< 49 mg/kg < 0.005 %	49 mg/kg 0.005 %	Building 1 sky blue bathroom door Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2023	
LBP-5 Lab ID # 1562-00005-005	Pb	2700 mg/kg 0.270 %	46 mg/kg 0.005 %	Building 1 shop area red wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2196	
LBP-6 Lab ID # 1562-00005-006	Pb	5500 mg/kg 0.550 %	46 mg/kg 0.005 %	Building 1 interior white wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2176	
LBP-7 Lab ID # 1562-00005-007	Pb	510 mg/kg 0.051 %	46 mg/kg 0.005 %	Building 2 exterior white wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2196	
LBP-8 Lab ID # 1562-00005-008	Pb	100 mg/kg 0.010 %	43 mg/kg 0.004 %	Building 2 exterior tan wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2309	
LBP-9 Lab ID # 1562-00005-009	Pb	670 mg/kg 0.067 %	42 mg/kg 0.004 %	Building 2 exterior teal green wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2385	
LBP-10 Lab ID # 1562-00005-010	Pb	< 49 mg/kg < 0.005 %	49 mg/kg 0.005 %	Building 2 white interior wall Sampling Date Mar-02-22 Analysis Date Mar-17-22 Analyzed Weight (g) 0.2054	

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
Jo Ann Huerto

Analyst 
Jie Zhang

**ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)**

Page: **4** of **4**

Contact: Brandon Reiff		Samples Submitted: 20		Report No.: 377800	
Address: Broadbent & Associates		Samples Analyzed: 20		Date Submitted: Mar-04-22	
5450 Louie Lane #101		Job Site / No.		Date Reported: Mar-17-22	
Reno, NV 89511		PLPT-Smith Site			
		19-02-139			
SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION	
LBP-10D Lab ID # 1562-00005-011	Pb	78 mg/kg 0.008 %	42 mg/kg 0.004 %	Building 2 white interior wall - duplicate <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2362	
LBP-11 Lab ID # 1562-00005-012	Pb	75 mg/kg 0.008 %	41 mg/kg 0.004 %	Building 4 red exterior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2453	
LBP-12 Lab ID # 1562-00005-013	Pb	59 mg/kg 0.006 %	47 mg/kg 0.005 %	Building 3 white exterior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2113	
LBP-13 Lab ID # 1562-00005-014	Pb	48000 mg/kg 4.800 %	42 mg/kg 0.004 %	Building 3 red exterior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2358	
LBP-14 Lab ID # 1562-00005-015	Pb	< 47 mg/kg < 0.005 %	47 mg/kg 0.005 %	Building 3 sky blue exterior door <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2119	
LBP-15 Lab ID # 1562-00005-016	Pb	130 mg/kg 0.013 %	40 mg/kg 0.004 %	Building 3 blue interior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2479	
LBP-16 Lab ID # 1562-00005-017	Pb	14000 mg/kg 1.400 %	40 mg/kg 0.004 %	Building 3 interior white wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.247	
LBP-17 Lab ID # 1562-00005-018	Pb	140000 mg/kg 14.000 %	43 mg/kg 0.004 %	Building 4 exterior red wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2299	
LBP-18 Lab ID # 1562-00005-019	Pb	< 49 mg/kg < 0.005 %	49 mg/kg 0.005 %	Building 4 exterior white wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2037	
LBP-19 Lab ID # 1562-00005-020	Pb	< 48 mg/kg < 0.005 %	48 mg/kg 0.005 %	Building 4 interior white wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Mar-02-22 Mar-17-22 0.2091	

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
Jo Ann Huerto

Analyst 
Jie Zhang



ATEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 3431 Ettie Street Oakland, CA 94608

Phone (510) 704-8930 Fax (510) 704-8429

NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431

Phone (775) 359-3377 Fax (775) 359-2798

You may also email this chain of custody to asbestostemlabs.ca@gmail.com

* denotes required field

1 of 2

Company: Broadbent & Associates				Contact: *Brandon Reiff				Phone: *775-322-7969				Email: *breiff@broadbentinc.com			
Address: *5450 Louie Ln., #101				City: *Reno				State: *NV Zip: 89511				Email:			
Job Site: *PLPT-Smith Site				Job #: 19-02-139				PO #: 19-02-139				Email:			
Reporting *		☐ Email	☐ Phone	☐ Fax	☐ Mail	☐ Pickup	Billing		☐ Email	☐ Fax	☐ Mail	☐ Pre-Paid	Billing Email:		
Results Due: *		☐ 2 HR	☐ 4 HR	☐ 6 HR	☐ 8 HR	☐ 24 HR	☐ 48 HR	☐ 3 DAY	☐ 5 DAY	☒ 10 DAY	☐ Hold Samples (Until _____)		☐ After Hours: **		
Asbestos Air		☐ PCM NIOSH 7400 ☐ A or B		☐ TEM AHERA		☐ TEM CARB Mod. AHERA		☐ TEM EPA Yamate Level II		☐ TEM NIOSH 7402		☐ ISO 10312	☐ ISO 13794	☐ Sensitivity _____	
Asbestos Bulk		☐ PLM Standard (EPA 600/R-93-1)		☐ PLM 400 Point Count		☐ PLM 1000 PC		☐ PLM 400 PC Gravimetric Reduction		☐ PLM 1000 PC Grav. Red.		☐ TEM EPA Qualitative		☐ TEM EPA Quantitative	
Asbestos Soils		☐ CARB 435 Prep Only		☐ CARB 435 PLM		☐ 400 PC	☐ 800 PC	☐ 1000 PC	☐ 1200 PC	☐ EPA Soil Screening Qualitative		☐ TEM-NOA EPA/CARB Quantitative		☐ Erionite	
Asbestos Dust		☐ ASTM D-5755 Fiber Count		☐ ASTM D-5756 Wt. %		☐ ASTM D-5756 Mass		☐ ASTM D-6480 Dust Wipe		☐ Total Particulates (Gravimetric)					
Asbestos Water		☐ 100.2 Potable Drinking Water		☐ 100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested									
Lead/Silica		☒ Lead Paint Chips EPA-SW-846 7000B		☐ Lead Dust Wipe EPA-SW-846 7000B		☐ Lead Air NIOSH 7082		☐ Lead Soil EPA-SW-846 7000B		☐ Crystalline Silica Air (NIOSH 7500) ☐ Single Species ☐ All Species		☐ Crystalline Silica in Bulk (NIOSH 7500) ☐ Single Species ☐ All Species		☐ Respirable Crystalline Silica in Bulk (NIOSH 7500) ☐ Single Species ☐ All Species	
Custom/Other		☐ Custom Analysis **				☐ TEM Chatfield (Semi-Quant)				☐ NIOSH 0500		☐ NIOSH 0600	☐ TTLC	☐ STLC	☐ TCLP
Special Instruct.		☐ Composite		☐ Prep Only		☐ 8 Hour TWA		Other **							

Sample # *	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm)			Volume or Area Sampled	Hold Sample	Description *
						On	Off	Average			
LBP -1	Paint Chip	3/2/22								☐	Building 1 teal green exterior wall
LBP -2										☐	Building 1 white door frame
LBP -3										☐	Building 1 white exterior wall
LBP -4										☐	Building 1 sky blue bathroom door
LBP -5										☐	Building 1 shop area red wall
LBP -6										☐	Building 1 interior white wall
LBP -7										☐	Building 2 exterior white wall
LBP -8										☐	Building 2 exterior tan wall
LBP -9										☐	Building 2 exterior teal green wall
LBP -10										☐	Building 2 white interior wall
LBP -10D										☐	Building 2 white interior wall - duplicate

Submitted By * <i>[Signature]</i>		Received By <i>Gregory Hanes</i>	
Date/Time Submitted * 3/4/22 10:00		Date/Time Received 3/4/22 @ 10:20am	
Submitted By		Received By <i>[Signature]</i>	
Date/Time Submitted		Date/Time Received	

** For any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. This includes dropping off samples for rush, same day analysis. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff. All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service.



ATEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 3431 Ettie Street Oakland, CA 94608

Phone (510) 704-8930 Fax (510) 704-8429

NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431

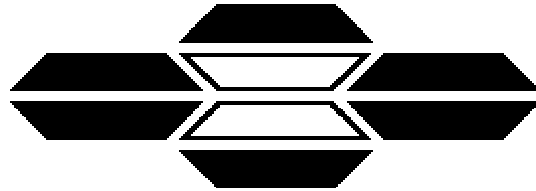
Phone (775) 359-3377 Fax (775) 359-2798

You may also email this chain of custody to asbestastemlabs.ca@gmail.com

* denotes required field

Company: Broadbent & Associates		Contact: *Brandon Reiff		Phone: *775-322-7969		Email: *breiff@broadbentinc.com					
Address: *5450 Louie Ln., #101		City: *Reno		State: *NV Zip: 89511		Email:					
Job Site: *PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:					
Reporting *	☐ Email ☐ Phone ☐ Fax ☐ Mail ☐ Pickup	Billing	☐ Email ☐ Fax ☐ Mail ☐ Pre-Paid	Billing Email:							
Results Due: *	☐ 2 HR ☐ 4 HR ☐ 6 HR ☐ 8 HR ☐ 24 HR ☐ 48 HR ☐ 3 DAY ☐ 5 DAY ☒ 10 DAY ☐ Hold Samples (Until _____)						☐ After Hours: **				
Asbestos Air	☐ PCM NIOSH 7400 ☐ A ☐ B ☐ TEM AHERA ☐ TEM CARB Mod. AHERA ☐ TEM EPA Yamate Level II ☐ TEM NIOSH 7402 ☐ ISO 10312 ☐ ISO 13794 ☐ Sensitivity _____										
Asbestos Bulk	☐ PLM Standard (EPA 600/R-93-1) ☐ PLM 400 Point Count ☐ PLM 1000 PC ☐ PLM 400 PC Gravimetric Reduction ☐ PLM 1000 PC Grav. Red. ☐ TEM EPA Qualitative ☐ TEM EPA Quantitative										
Asbestos Soils	☐ CARB 435 Prep Only ☐ CARB 435 PLM ☐ 400 PC ☐ 800 PC ☐ 1000 PC ☐ 1200 PC ☐ EPA Soil Screening Qualitative ☐ TEM-NOA EPA/CARB Quantitative ☐ Erionite										
Asbestos Dust	☐ ASTM D-5755 Fiber Count ☐ ASTM D-5756 Wt. % ☐ ASTM D-5756 Mass ☐ ASTM D-6480 Dust Wipe ☐ Total Particulates (Gravimetric)										
Asbestos Water	☐ 100.2 Potable Drinking Water ☐ 100.1 Non Potable Water	note that 100.2 will be used for all water samples unless otherwise requested									
Lead/Silica	☒ Lead Paint Chips EPA-SW-846 7000B ☐ Lead Dust Wipe EPA-SW-846 7000B ☐ Lead Air NIOSH 7082 ☐ Lead Soil EPA-SW-846 7000B ☐ Crystalline Silica Air (NIOSH 7500) ☐ Single Species ☐ All Species ☐ Crystalline Silica in Bulk (NIOSH 7500) ☐ Single Species ☐ All Species ☐ Respirable Crystalline Silica in Bulk (NIOSH 7500) ☐ Single Species ☐ All Species										
Custom/Other	☐ Custom Analysis ** ☐ TEM Chatfield (Semi-Quant) ☐ NIOSH 0500 ☐ NIOSH 0600 ☐ TTLC ☐ STLC ☐ TCLP										
Special Instruct.	☐ Composite ☐ Prep Only ☐ 8 Hour TWA ☐ Other **										
Sample # *	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm)			Volume or Area Sampled	Hold Sample	Description *
						On	Off	Average			
LBP -11	Paint Chip	3/2/22								☐	Building 4 red exterior wall
LBP -12										☐	Building 3 white exterior wall
LBP -13										☐	Building 3 red exterior wall
LBP -14										☐	Building 3 sky blue exterior door
LBP -15										☐	Building 3 blue interior wall
LBP -16										☐	Building 3 interior white wall
LBP -17										☐	Building 4 exterior red wall
LBP -18										☐	Building 4 exterior white wall
LBP -19										☐	Building 4 interior white wall
										☐	
										☐	
Submitted By * <i>[Signature]</i>		Received By <i>Gregory Humes</i>									
Date/Time Submitted * 3-4-22 1000		Date/Time Received 3/4/22 @ 10:20 am								MAR 5 '22 9:45AM	
Submitted By		Received By									
Date/Time Submitted		Date/Time Received									

** For any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. This includes dropping off samples for rush, same day analysis. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff. All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service.



ASBESTOS TEM LABORATORIES, INC.

EPA Method 600/R-93/116 Polarized Light Microscopy Analytical Report

Report No. 147011

1350 Freeport Blvd., Unit 104
Sparks, NV 89431
(775) 359-3377
FAX (775) 359-2798

Main Office Located At:
3431 Ettie Street Oakland, CA 94608
Ph. (510) 704-8930 Fax (510) 704-8929



ASBESTOS TEM LABORATORIES, INC



NVLAP Lab Code 200104-0

Mar-25-22

Mr. Brandon Reiff
Broadbent & Associates
5450 Louie Lane #101
Reno, NV 89511

RE: LABORATORY JOB No

Polarized light microscopy analytical results for 107 bulk sample(s) with 28 sample split(s)

Job Site: PLPT-Smith Site

Job No.: 19-02-139

Report No.: 147011

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

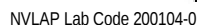
Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Please note all samples will be held for 3 months from the date of receipt unless otherwise requested by client.

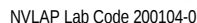
Sincerely Yours,

Laboratory Analyst
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP, NIST, or any other agency of the U.S. Government. ---



EPA Method 600/R-93/116 or 600/M4-82-020



EPA Method 600/R-93/116 or 600/M4-82-020

Contact: Mr. Brandon Reiff
Address: Broadbent & Associates
5450 Louie Lane #101
Reno, NV 89511

Samples Indicated: 107
Reg. Samples Analyzed: 107
Split Layers Analyzed: 28

Job Site / No. PLPT-Smith Site
19-02-139

Report No. **147011**
Date Submitted: Mar-04-22
Date Reported: Mar-25-22

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 3 of 14

Contact: Mr. Brandon Reiff	Samples Indicated: 107	Report No. 147011	
Address: Broadbent & Associates	Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22	
5450 Louie Lane #101	Split Layers Analyzed: 28	Date Reported: Mar-25-22	
Reno, NV 89511	Job Site / No. PLPT-Smith Site		
	19-02-139		
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-7-3	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Calc, Other	Building 1 Shop Area Cinder Block wall
Lab ID # 9008-00045-021		3) Mar-23-22	Cement-Grey
HA-8-1	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Calc, Other	Building 1 Concrete Foundation Slab
Lab ID # 9008-00045-022		3) Mar-23-22	Cement-Grey
HA-8-2	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Calc, Other	Building 1 Concrete Foundation Slab
Lab ID # 9008-00045-023		3) Mar-23-22	Cement-Grey
HA-8-3	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Calc, Other	Building 1 Concrete Foundation Slab
Lab ID # 9008-00045-024		3) Mar-23-22	Cement-Grey
HA-9-1	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1 Yellow Wall Insulation-Shop Area
Lab ID # 9008-00045-025		3)Mar-23-22	Insulation-Yellow
HA-9-2	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1 Yellow Wall Insulation-Shop Area
Lab ID # 9008-00045-026		3) Mar-23-22	Insulation-Yellow
HA-9-3	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1 Yellow Wall Insulation-Shop Area
Lab ID # 9008-00045-027		3)Mar-23-22	Insulation-Yellow
HA-10-1	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 1 Blue Closet Drywall
Lab ID # 9008-00045-028		3)Mar-23-22	Drywall-White/Tan
HA-10-2	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 1 Blue Closet Drywall
Lab ID # 9008-00045-029		3)Mar-23-22	Drywall-White/Tan
HA-10-3	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 1 Blue Closet Drywall
Lab ID # 9008-00045-030		3)Mar-23-22	Drywall-White/Tan

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst

Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

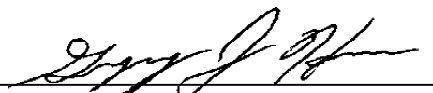
EPA Method 600/R-93/116 or 600/M4-82-020

Page: 4 of 14

Contact: Mr. Brandon Reiff	Samples Indicated: 107	Report No. 147011	
Address: Broadbent & Associates	Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22	
5450 Louie Lane #101	Split Layers Analyzed: 28	Date Reported: Mar-25-22	
Reno, NV 89511	Job Site / No. PLPT-Smith Site		
	19-02-139		
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-11-1. Split A Lab ID # 9008-00045-031A	None Detected	1)25-40% Cellulose,Fiberglass 2)60-75% Plast, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Flooring-Off-White/Grey
HA-11-1. Split B Lab ID # 9008-00045-031B	None Detected	1)1-5% Cellulose 2)95-99% Bndr, Calc, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Mastic-Yellow
HA-11-2 Split A Lab ID # 9008-00045-032A	None Detected	1)25-40% Cellulose,Fiberglass 2)60-75% Plast, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Flooring-Off-White/Grey
HA-11-2 Split B Lab ID # 9008-00045-032B	None Detected	1)1-5% Cellulose 2)95-99% Bndr, Calc, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Mastic-Yellow
HA-11-3 Split A Lab ID # 9008-00045-033A	None Detected	1)25-40% Cellulose,Fiberglass 2)60-75% Plast, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Flooring-Off-White/Grey
HA-11-3 Split B Lab ID # 9008-00045-033B	None Detected	1)1-5% Cellulose 2)95-99% Bndr, Calc, Gyp, Other m.p.	Building 1, White Bathroom Vinyl Sheet Flooring
		3) Mar-23-22 4)	Mastic-Yellow
HA-12-1 Lab ID # 9008-00045-034	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1, Yellow Living Room Wall Insulation
		3) Mar-23-22 4)	Insulation-Yellow
HA-12-2 Lab ID # 9008-00045-035	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1, Yellow Living Room Wall Insulation
		3) Mar-23-22 4)	Insulation-Yellow
HA-12-3 Lab ID # 9008-00045-036	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1, Yellow Living Room Wall Insulation
		3) Mar-23-22 4)	Insulation-Yellow
HA-13-1 Lab ID # 9008-00045-037	None Detected	1)95-99% Fiberglass 2)1-5% Bndr, Other m.p.	Building 1, Pink Ceiling Insulation
		3) Mar-23-22 4)	Insulation-Pink

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

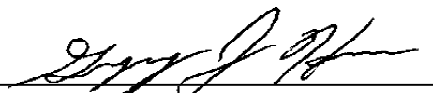
EPA Method 600/R-93/116 or 600/M4-82-020

Page: 5 of 14

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-13-2	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 1, Pink Ceiling Insulation
Lab ID # 9008-00045-038		3) 4) Mar-23-22	Insulation-Pink
HA-13-3	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 1, Pink Ceiling Insulation
Lab ID # 9008-00045-039		3) 4) Mar-23-22	Insulation-Pink
HA-14-1 Split A	20-30% Chrysotile	1) 10-20% Cellulose 2) 50-70% Plast, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-040A		3) 4) Mar-23-22	Flooring-Yellow/Grey
HA-14-1 Split B	1-5% Chrysotile	1) 1-5% Cellulose 2) 90-98% Bndr, Calc, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-040B		3) 4) Mar-23-22	Mastic-Yellow
HA-14-2 Split A	20-30% Chrysotile	1) 10-20% Cellulose 2) 50-70% Plast, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-041A		3) 4) Mar-23-22	Flooring-Yellow/Grey
HA-14-2 Split B	1-5% Chrysotile	1) 1-5% Cellulose 2) 90-98% Bndr, Calc, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-041B		3) 4) Mar-23-22	Mastic-Yellow
HA-14-3 Split A	20-30% Chrysotile	1) 10-20% Cellulose 2) 50-70% Plast, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-042A		3) 4) Mar-23-22	Flooring-Yellow/Grey
HA-14-3 Split B	1-5% Chrysotile	1) 1-5% Cellulose 2) 90-98% Bndr, Calc, Gyp, Other m.p.	Building 1, Living Room Yellow Vinyl Sheet Flooring
Lab ID # 9008-00045-042B		3) 4) Mar-23-22	Mastic-Yellow
HA-15-1	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 1, Roof Shingles
Lab ID # 9008-00045-043		3) 4) Mar-23-22	Roofing-Black/Grey
HA-15-2	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 1, Roof Shingles
Lab ID # 9008-00045-044		3) 4) Mar-23-22	Roofing-Black/Grey

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

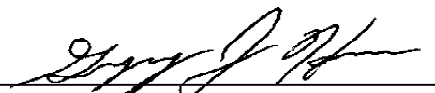
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **6** of **14**

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-15-3 Lab ID # 9008-00045-045	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 1, Roof Shingles
		3) 4) Mar-23-22	Roofing-Black/Grey
HA-16-1 Split A Lab ID # 9008-00045-046A	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Brick-Brown
HA-16-1 Split B Lab ID # 9008-00045-046B	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Grout-Grey/Tan
HA-16-2 Split A Lab ID # 9008-00045-047A	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Brick-Brown
HA-16-2 Split B Lab ID # 9008-00045-047B	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Grout-Grey/Tan
HA-16-3 Split A Lab ID # 9008-00045-048A	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Brick-Brown
HA-16-3 Split B Lab ID # 9008-00045-048B	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Brick wall
		3) 4) Mar-25-22	Grout-Grey/Tan
HA-17-1 Lab ID # 9008-00045-049	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Cinder Block wall
		3) 4) Mar-25-22	Concrete-Tan
HA-17-2 Lab ID # 9008-00045-050	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Cinder Block wall
		3) 4) Mar-25-22	Concrete-Tan
HA-17-3 Lab ID # 9008-00045-051	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Gyp, Other m.p.	Building 2, Cinder Block wall
		3) 4) Mar-25-22	Concrete-Tan

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

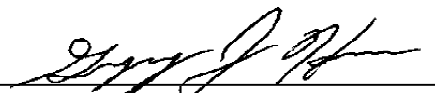
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **8** of **14**

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-20-1 Split B Lab ID # 9008-00045-058B	None Detected	1) <1% Cellulose	Building 2, White Bathroom Shower Tile
		2) 100-100% Clay, Qtz, Opq, Other	
		3) 4) Mar-25-22	Cement-Grey
HA-20-2 Split A Lab ID # 9008-00045-059A	None Detected	1) None Detected	Building 2, White Bathroom Shower Tile
		2) 99-100% Clay, Qtz, Gyp, Other m.p.	
		3) 4) Mar-25-22	Tile-White
HA-20-2 Split B Lab ID # 9008-00045-059B	None Detected	1) <1% Cellulose	Building 2, White Bathroom Shower Tile
		2) 100-100% Clay, Qtz, Opq, Other	
		3) 4) Mar-25-22	Cement-Grey
HA-20-3 Split A Lab ID # 9008-00045-060A	None Detected	1) None Detected	Building 2, White Bathroom Shower Tile
		2) 99-100% Clay, Qtz, Gyp, Other m.p.	
		3) 4) Mar-25-22	Tile-White
HA-20-3 Split B Lab ID # 9008-00045-060B	None Detected	1) <1% Cellulose	Building 2, White Bathroom Shower Tile
		2) 100-100% Clay, Qtz, Opq, Other	
		3) 4) Mar-25-22	Cement-Grey
HA-21-1 Lab ID # 9008-00045-061	None Detected	1) 20-30% Cellulose	Building 2, Stained Glass Window Caulk
		2) 70-80% Bndr, Calc, Gyp, Other m.p.	
		3) 4) Mar-25-22	Caulk-Off-White/White
HA-22-1 Lab ID # 9008-00045-062	None Detected	1) 95-99% Fiberglass	Building 2, Yellow Wall Insulation
		2) 1-5% Bndr, Other m.p.	
		3) 4) Mar-25-22	Insulation-Yellow
HA-22-2 Lab ID # 9008-00045-063	None Detected	1) 95-99% Fiberglass	Building 2, Yellow Wall Insulation
		2) 1-5% Bndr, Other m.p.	
		3) 4) Mar-25-22	Insulation-Yellow
HA-22-3 Lab ID # 9008-00045-064	None Detected	1) 95-99% Fiberglass	Building 2, Yellow Wall Insulation
		2) 1-5% Bndr, Other m.p.	
		3) 4) Mar-25-22	Insulation-Yellow
HA-23-1 Split A Lab ID # 9008-00045-065A	None Detected	1) 1-5% Cellulose	Building 2, Light Blue Painted Drywall
		2) 95-99% Calc, Gyp, Paint, Other m.p.	
		3) 4) Mar-25-22	Texture-White

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

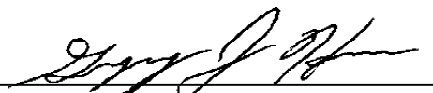
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **9** of **14**

Contact: Mr. Brandon Reiff	Samples Indicated: 107	Report No. 147011	
Address: Broadbent & Associates	Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22	
5450 Louie Lane #101	Split Layers Analyzed: 28	Date Reported: Mar-25-22	
Reno, NV 89511	Job Site / No. PLPT-Smith Site		
	19-02-139		
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
HA-23-1 Split B Lab ID # 9008-00045-065B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4) Mar-25-22	JointCom-White
HA-23-1 Split C Lab ID # 9008-00045-065C	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4) Mar-25-22	Drywall-White/Tan
HA-23-2 Split A Lab ID # 9008-00045-066A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Gyp, Paint, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4) Mar-25-22	Texture-White
HA-23-2 Split B Lab ID # 9008-00045-066B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4) Mar-25-22	JointCom-White
HA-23-2 Split C Lab ID # 9008-00045-066C	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4)Mar-25-22	Drywall-White/Tan
HA-23-3 Split A Lab ID # 9008-00045-067A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Gyp, Paint, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4) Mar-25-22	Texture-White
HA-23-3 Split B Lab ID # 9008-00045-067B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4)Mar-25-22	JointCom-White
HA-23-3 Split C Lab ID # 9008-00045-067C	None Detected	1)10-20% Cellulose 2)80-90% Gyp, Other m.p.	Building 2, Light Blue Painted Drywall
		3) 4)Mar-25-22	Drywall-White/Tan
HA-24-1 Lab ID # 9008-00045-068	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Other m.p.	Building 2, Basement Cinder Block walls
		3) 4)Mar-25-22	Cement-Tan
HA-24-2 Lab ID # 9008-00045-069	None Detected	1)<1% Cellulose 2)100-100% Clay, Qtz, Other m.p.	Building 2, Basement Cinder Block walls
		3) 4)Mar-25-22	Cement-Tan

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

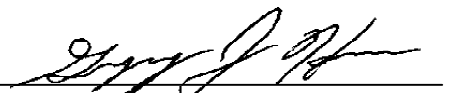
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **10** of **14**

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-24-3	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Other m.p.	Building 2, Basement Cinder Block walls
Lab ID # 9008-00045-070		3) 4) Mar-25-22	Cement-Tan
HA-25-1	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 2, Roof Shingles
Lab ID # 9008-00045-071		3) 4) Mar-25-22	Roof Shingle-Black/Grey
HA-25-2	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 2, Roof Shingles
Lab ID # 9008-00045-072		3) 4) Mar-25-22	Roof Shingle-Black/Grey
HA-25-3	None Detected	1) 40-50% Fiberglass 2) 50-60% Tar, Qtz, Other m.p.	Building 2, Roof Shingles
Lab ID # 9008-00045-073		3) 4) Mar-25-22	Roof Shingle-Black/Grey
HA-26-1	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 2, Exterior Vent Insulation
Lab ID # 9008-00045-074		3) 4) Mar-25-22	Insulation-Yellow
HA-27-1	None Detected	1) 10-20% Cellulose 2) 80-90% Tar, Other m.p.	Building 3, Exterior Roof Caulk Material
Lab ID # 9008-00045-075		3) 4) Mar-25-22	Caulk-Black/Grey
HA-27-2	None Detected	1) 10-20% Cellulose 2) 80-90% Tar, Other m.p.	Building 3, Exterior Roof Caulk Material
Lab ID # 9008-00045-076		3) 4) Mar-25-22	Caulk-Black/Grey
HA-27-3	None Detected	1) 10-20% Cellulose 2) 80-90% Tar, Other m.p.	Building 3, Exterior Roof Caulk Material
Lab ID # 9008-00045-077		3) 4) Mar-25-22	Caulk-Black/Grey
HA-28-1.	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Other m.p.	Building 3, Brick Chimney
Lab ID # 9008-00045-078		3) 4) Mar-25-22	Brick-Red
HA-28-2	None Detected	1) None Detected 2) 99-100% Clay, Qtz, Other m.p.	Building 3, Brick Chimney
Split A Lab ID # 9008-00045-079A		3) 4) Mar-25-22	Brick-Red

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

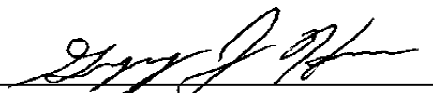
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **11** of **14**

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-28-2 Split B Lab ID # 9008-00045-079B	None Detected	1) <1% Cellulose	Building 3, Brick Chimney
		2) 100-100% Clay, Qtz, Gyp, Other	
		3) Mar-25-22 4) Mar-25-22	Mortar-Grey
HA-28-3 Lab ID # 9008-00045-080	None Detected	1) None Detected	Building 3, Brick Chimney
		2) 99-100% Clay, Qtz, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Brick-Red
HA-29-1 Lab ID # 9008-00045-081	None Detected	1) 5-10% Cellulose	Building 3, Wallboard Insulation
		2) 90-95% PlastFoam, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Insulation-Yellow/Grey
HA-29-2 Lab ID # 9008-00045-082	None Detected	1) 5-10% Cellulose	Building 3, Wallboard Insulation
		2) 90-95% PlastFoam, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Insulation-Yellow/Grey
HA-29-3 Lab ID # 9008-00045-083	None Detected	1) 5-10% Cellulose	Building 3, Wallboard Insulation
		2) 90-95% PlastFoam, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Insulation-Yellow/Grey
HA-30-1 Lab ID # 9008-00045-084	None Detected	1) 40-50% Cellulose	Building 3, White Kitchen Countertop
		2) 50-60% Plast, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Countertop-White/Brown
HA-30-2 Lab ID # 9008-00045-085	None Detected	1) 40-50% Cellulose	Building 3, White Kitchen Countertop
		2) 50-60% Plast, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Countertop-White/Brown
HA-30-3 Lab ID # 9008-00045-086	None Detected	1) 40-50% Cellulose	Building 3, White Kitchen Countertop
		2) 50-60% Plast, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Countertop-White/Brown
HA-31-1 Split A Lab ID # 9008-00045-087A	None Detected	1) 1-5% Cellulose	Building 3, White Sheetrock Walls
		2) 95-99% Calc, Gyp, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	JointCom-White
HA-31-1 Split B Lab ID # 9008-00045-087B	None Detected	1) 10-20% Cellulose	Building 3, White Sheetrock Walls
		2) 80-90% Gyp, Other m.p.	
		3) Mar-25-22 4) Mar-25-22	Drywall-White/Tan

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique.
Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



NVLAP Lab Code 200104-0

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

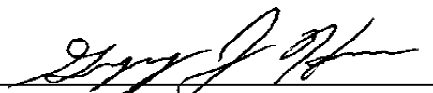
EPA Method 600/R-93/116 or 600/M4-82-020

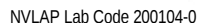
Page: 12 of 14

Contact: Mr. Brandon Reiff		Samples Indicated: 107	Report No. 147011
Address: Broadbent & Associates		Reg. Samples Analyzed: 107	Date Submitted: Mar-04-22
5450 Louie Lane #101		Split Layers Analyzed: 28	Date Reported: Mar-25-22
Reno, NV 89511		Job Site / No. PLPT-Smith Site	
		19-02-139	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-31-2. Split A Lab ID # 9008-00045-088A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Gyp, Other m.p.	Building 3, White Sheetrock Walls
		3) 4) Mar-25-22	JointCom-White
HA-31-2. Split B Lab ID # 9008-00045-088B	None Detected	1) 10-20% Cellulose 2) 80-90% Gyp, Other m.p.	Building 3, White Sheetrock Walls
		3) 4) Mar-25-22	Drywall-White/Tan
HA-31-3 Split A Lab ID # 9008-00045-089A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Gyp, Other m.p.	Building 3, White Sheetrock Walls
		3) 4) Mar-25-22	JointCom-White
HA-31-3 Split B Lab ID # 9008-00045-089B	None Detected	1) 10-20% Cellulose 2) 80-90% Gyp, Other m.p.	Building 3, White Sheetrock Walls
		3) 4) Mar-25-22	Drywall-White/Tan
HA-32-1 Lab ID # 9008-00045-090	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Opq, Other	Building 3, Concrete Pad
		3) 4) Mar-25-22	Concrete-Grey
HA-32-2 Lab ID # 9008-00045-091	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Opq, Other	Building 3, Concrete Pad
		3) 4) Mar-25-22	Concrete-Grey
HA-32-3 Lab ID # 9008-00045-092	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Opq, Other	Building 3, Concrete Pad
		3) 4) Mar-25-22	Concrete-Grey
HA-33-1 Lab ID # 9008-00045-093	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 4, Shed Wall Insulation Pink
		3) 4) Mar-25-22	Insulation-Pink
HA-33-2 Lab ID # 9008-00045-094	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 4, Shed Wall Insulation Pink
		3) 4) Mar-25-22	Insulation-Pink
HA-33-3 Lab ID # 9008-00045-095	None Detected	1) 95-99% Fiberglass 2) 1-5% Bndr, Other m.p.	Building 4, Shed Wall Insulation Pink
		3) 4) Mar-25-22	Insulation-Pink

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Split samples are inhomogeneous.

Laboratory Analyst


Greg Hanes



EPA Method 600/R-93/116 or 600/M4-82-020

Contact: Mr. Brandon Reiff Address: Broadbent & Associates 5450 Louie Lane #101 Reno, NV 89511		Samples Indicated: 107 Reg. Samples Analyzed: 107 Split Layers Analyzed: 28 Job Site / No. PLPT-Smith Site 19-02-139	Report No. 147011 Date Submitted: Mar-04-22 Date Reported: Mar-25-22
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
HA-36-2 Lab ID # 9008-00045-103	None Detected	1)11-25% Cellulose,Fiberglass 2)75-89% Gyp, Other m.p.	Building 4, Sheetrock Interior walls
		3) Mar-25-22 4)	Drywall-White/Tan
HA-36-3 Lab ID # 9008-00045-104	None Detected	1)11-25% Cellulose,Fiberglass 2)75-89% Gyp, Other m.p.	Building 4, Sheetrock Interior walls
		3) Mar-25-22 4)	Drywall-White/Tan
HA-37-1 Lab ID # 9008-00045-105	None Detected	1)60-70% Cellulose 2)30-40% Tar, Other m.p.	Building 4, Black Roofing Material
		3) Mar-25-22 4)	Roofing-Black
HA-37-2 Lab ID # 9008-00045-106	None Detected	1)60-70% Cellulose 2)30-40% Tar, Other m.p.	Building 4, Black Roofing Material
		3) Mar-25-22 4)	Roofing-Black
HA-37-3 Lab ID # 9008-00045-107	None Detected	1)60-70% Cellulose 2)30-40% Tar, Other m.p.	Building 4, Black Roofing Material
		3) Mar-25-22 4)	Roofing-Black
Lab ID #		1) 2)	
		3) 4)	
Lab ID #		1) 2)	
		3) 4)	
Lab ID #		1) 2)	
		3) 4)	
Lab ID #		1) 2)	
		3) 4)	
Lab ID #		1) 2)	
		3) 4)	

Laboratory Analyst

ASBESTOS TEM LABORATORIES, INC. 1350 Freeport Blvd., Unit 104, Sparks, NV 89431 (775) 359-3377



ATEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 3431 Ettie Street Oakland, CA 94608

Phone (510) 704-8930 Fax (510) 704-8429

NEVADA: 1350 Freepoint Blvd. #104, Sparks, NV 89431

Phone (775) 359-3377 Fax (775) 359-2798

You may also email this chain of custody to asbestos@atemlabs.com

*denotes required field

Company: Broadbent & Associates		Contact: *Brandon Reiff		Phone: *775-322-7969		Email: *breiff@broadbentinc.com													
Address: *5450 Louie Ln., #101		City: *Reno		State: *NV Zip: 89511		Email:													
Job Site: *PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Billing Email:													
Reporting *		Billing		Pre-Paid		After Hours: **													
Results Due: *		2 HR		4 HR		6 HR		8 HR		10 DAY		Hold Samples (Until)		ISO 10312		ISO 13794		Sensitivity	
Asbestos Air		PCM NIOSH 7400		A or B		TEM AHERA		TEM CARB Mod. AHERA		PLM 400 PC Gravimetric Reduction		PLM 3000 PC Grav. Red.		TEM EPA Qualitative		TEM EPA Quantitative		Erlonite	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		CARB 435 Prep Only		ASTM D-5755 Fiber Count		ASTM D-5756 Mass		ASTM D-5756 Wt. %		100.1 Non Potable Water		100.2 Potable Drinking Water		Lead Paint Chips EPA-SW-846 70003		Lead Silica EPA-SW-846 70003	
Asbestos Soils		CARB 435 Prep Only		ASTM D-5755 Fiber Count		ASTM D-5756 Mass		ASTM D-5756 Wt. %		100.1 Non Potable Water		100.2 Potable Drinking Water		Lead Paint Chips EPA-SW-846 70003		Lead Silica EPA-SW-846 70003		Respirable Crystalline Silica in Bulk (NIOSH 7500)	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Mass		ASTM D-5756 Wt. %		100.1 Non Potable Water		100.2 Potable Drinking Water		Lead Paint Chips EPA-SW-846 70003		Lead Silica EPA-SW-846 70003		Respirable Crystalline Silica in Bulk (NIOSH 7500)		Single Species	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		100.2 Potable Drinking Water		100.1 Non Potable Water		100.2 Potable Drinking Water		100.1 Non Potable Water		100.2 Potable Drinking Water		100.1 Non Potable Water		100.2 Potable Drinking Water	
Lead/Silica		Lead Paint Chips EPA-SW-846 70003		Lead Air NIOSH 7082		Lead Soil EPA-SW-846 7000B		Crystalline Silica Air (NIOSH 7500)		Crystalline Silica Bulk (NIOSH 7500)		Single Species		All Species		Single Species		All Species	
Custom/Other		Custom Analysis **		Prep Only		8 Hour TWA		Other **		Prep Only		8 Hour TWA		Other **		Prep Only		8 Hour TWA	
Special Instruct.		Composite		Prep Only		8 Hour TWA		Other **		Prep Only		8 Hour TWA		Other **		Prep Only		8 Hour TWA	
Sample # *		Sample Type		Date Collected		Time On		Time Off		Total Time (min)		Flow Rate (lpm)		Volume or Area Sampled		Hold Sample		Description *	
HA-1-1		Bulk		3/3/22														Building 1 Kitchen white vinyl sheet flooring	
HA-1-2																			
HA-1-3																			
HA-2-1																		Building 1 Drywall interior	
HA-2-2																			
HA-2-3																			
HA-3-1																		Building 1 Bathroom ceiling drywall	
HA-3-2																			
HA-3-3																			
HA-4-1																		Building 1 Bathroom blue vinyl sheet flooring	
HA-4-2																			
Submitted By *		Gregory J. Haines		3-4-22		10:00		Received By		Gregory J. Haines		3-4-22 @ 10:16 am							
Date/Time Submitted *		3-4-22		10:00		Received By		Date/Time Received		3-4-22 @ 10:16 am									
Submitted By								Received By											
Date/Time Submitted								Date/Time Received											

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ATEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 3431 Ettie Street Oakland, CA 94608 Phone (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freepoint Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798
You may also email this chain of custody to asbestos@atemlabs.com * denotes required field

2 of 10

Company: Broadbent & Associates		Contact: Brandon Roloff		Phone: 775-322-7969		Email: *broff@broadbentinc.com	
Address: *5450 Louie Ln., #101		City: *Reno		State: *NV Zip: 89511		Email:	
Job Site: *PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		8 HR	
Asbestos Air		PCM NIOSH 7400		A B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		PLM 400 Point Count		PLM 400 PC	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 WL %		ASTM D-5756 Mess	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		Lead Dust Wipe		Lead Air	
Custom/Other		EPA-SW-846 7000B		EPA-SW-846 7000B		NIOSH 7082	
Special Instruct.		Composite		Prep Only		8 Hour TWA	
Sample # *		Sample Type		Date Collected		Time On	
HA-4-3		Bulk		3/3/22			
HA-5-1							
HA-5-2							
HA-5-3							
HA-6-1							
HA-6-2							
HA-6-3							
HA-7-1							
HA-7-2							
HA-7-3							
HA-8-1							
Submitted By *		Gregory J. Hanes		Received By		Gregory J. Hanes	
Date/Time Submitted *		3-4-22		Date/Time Received		3/4/22 @ 10:20 am	
Submitted By				Received By			
Date/Time Submitted				Date/Time Received			

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You may also email this chain of custody to asbestos@atemlabs.com or asbestos@atem.com
* denotes required field

3 of 10

Company: Broadbent & Associates		Contact: Brandon Roloff		Phone: 775-322-7969		Email: brent@broadbentinc.com	
Address: 5450 Louie Ln., #101		City: Reno		State: NV Zip: 89511		Email:	
Job Site: PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		8 HR	
Asbestos Air		PCM NIOSH 7400		A B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		PLM 400 Point Count		PLM 400 PC Gravimetric Reduction	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-5756 Mass	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		Lead Dust Wipe		Lead Air	
Custom/Other **		EPA-SW-846 7000B		EPA-SW-846 7000B		NIOSH 7082	
Special Instruct.		Composite		Prep Only		8 Hour TWA	
Sample # *		Sample Type		Date Collected		Time On	
HA-8-2		Bulk		3/3/22		Time Off	
HA-8-3						Total Time (min)	
HA-9-1						Flow Rate (lpm)	
HA-9-2						On	
HA-9-3						Off	
HA-10-1						Average	
HA-10-2						Volume or Area Sampled	
HA-10-3						Hold Sample	
HA-11-1						Description *	
HA-11-2						Building 1 concrete foundation slab	
HA-11-3						Building 1 yellow wall insulation - shop area	
Submitted By *		Gregory J. Hulse		3/4/22 @ 10:20 am		Building 1 - blue closet drywall	
Date/Time Submitted *		3-4-22		10:20		Building 1 white bathroom vinyl sheet flooring	
Submitted By						Building 1 - blue closet drywall	
Date/Time Submitted						Building 1 white bathroom vinyl sheet flooring	

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ATEM LABORATORIES CHAIN OF CUSTODY

4 of 10

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NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798
You may also email the chain of custody to ateststemlabs.ca@gmail.com *denotes required field

Company: Broadbent & Associates		Contact: Brandon Reiff		Phone: 775-322-7969		Email: breiff@broadbentinc.com			
Address: 5450 Louie Ln., #101		City: Reno		State: *		Zip: 89511			
Job site: PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Billing Email:			
Reporting *		Billing		Pre-Paid		Billing Email:			
Results Due: *		2 HR 4 HR 6 HR 8 HR 24 HR 48 HR 3 DAY 5 DAY 10 DAY		Hold Samples (Unit)		After Hours: **			
Asbestos Air		PCM NIOSH 7400 A B TEM AHERA TEM CARB Mod. AHERA PLM 1000 PC P.L.M. 400 PC Gravimetric Reduction TEM NIOSH 7402 ISO 10312 ISO 13754		Sensitivity					
Asbestos Bulk		PLM Standard (EPA 500/R 93.1) CARB 435 PLM 400 PC 800 PC 1000 PC 1200 PC		EPA Soil Screening Qualitative TEM-NQA EPA/CARB Quantitative		EPA Quantitative			
Asbestos Soils		CARB 435 Prep Only		EPA Soil Screening Qualitative		TEM-NQA EPA/CARB Quantitative			
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-6480 Dust Wipe			
Asbestos Water		100.2 Potable Drinking Water 100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested					
Lead/Silica		Lead Paint Chips EPA-SW-846 70008 EPA-SW-846 70003		Lead Air NIOSH 7082		Lead Soil EPA-SW-846 70003			
Custom/Other		Custom Analysis **		TEM Charfield (Semi-Quant)		NIOSH 0500 NIOSH 0600 TLIC TLIC			
Special Instruct.		Composite Prep Only 8 Hour TWA		Other **					
Sample # *	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm) On Off Average	Volume or Area Sampled	Hold Sample	Description *
HA-12-1	Bulk	3/3/22							Building 1 yellow living room wall insulation
HA-12-2									"
HA-12-3									"
HA-13-1									Building 1 pink ceiling insulation
HA-13-2									"
HA-13-2									"
HA-14-1									Building 1 living room yellow vinyl sheet flooring
HA-14-2									"
HA-14-3									"
HA-15-1									Building 1 roof shingles
HA-15-2									"
Submitted By *		Received By		Gregory J. Hanes		3-4-22 @ 10:10 am		3-4-22	
Date/Time Submitted *		Date/Time Received		3-4-22		10:20		3-4-22 @ 10:10 am	
Submitted By		Received By		3-4-22		10:20		3-4-22 @ 10:10 am	
Date/Time Submitted		Date/Time Received		3-4-22		10:20		3-4-22 @ 10:10 am	

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You may also email this chain of custody to asbestos@atemlabs.com *denotes required field

5-6-10

Company: Broadbent & Associates		Contact: Brandon Reiff		Phone: 775-322-7969		Email: breiff@broadbentinc.com	
Address: 5450 Louie Ln., #101		City: Reno		State: * Zip: 89511		Email:	
Job Site: * PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		8 HR	
Asbestos Air		PCM NIOSH 7400		A or B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		PLM 400 Point Count		PLM 1000 PC	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-5756 Mass	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		Lead Dust Wipe		Lead Air	
Custom/Other		EPA-SW-846 7000B		EPA-SW-846 7000B		NIOSH 7082	
Special Instruct.		Composite		Prep Only		8 Hour TWA	
Sample # *		Sample Type		Date Collected		Time On	
HA-15-3		Bulk		3/3/22		Time Off	
HA-16-1						Total Time (min)	
HA-16-2						Flow Rate (lpm)	
HA-16-3						On	
HA-17-1						Off	
HA-17-2						Average	
HA-17-3						Volume or Area Sampled	
HA-18-1						Hold Sample	
HA-18-2						Description *	
HA-18-3						Building 1 roof shingles	
HA-19-1						Building 2 brick wall	
Submitted By *		Gregory J. Jones		3-4-22		10:20 am	
Date/Time Submitted *		3-4-22		10:20		Received By	
Submitted By						Date/Time Received	
Date/Time Submitted						Date/Time Received	

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You may also email this chain of custody to asbestos@atemlabs.com
* denotes required field

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Company: Broadbent & Associates		Contact: Brandon Reiff		City: Reno		Job #: 19-02-139		Phone: 775-322-7969		Email: breiff@broadbentinc.com	
Address: 5450 Louie Ln., #101		State: *		Zip: 89511		PO #: 19-02-139		State: *		Email:	
Job Site: PLPT-Smith Site		Reporting *		Billing		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Results Due: *		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Asbestos Air		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Asbestos Bulk		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Asbestos Soils		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Asbestos Dust		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Asbestos Water		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Lead/Silica		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Custom/Other		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Special Instruct.		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Sample # *		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-19-2		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-19-3		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-20-1		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-20-2		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-20-3		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-21-1		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-22-1		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-22-2		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-22-3		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-23-1		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
HA-23-2		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Submitted By *		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Date/Time Submitted *		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Submitted By		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	
Date/Time Submitted		Billing		Job #: 19-02-139		PO #: 19-02-139		PO #: 19-02-139		Email:	

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Phone (775) 359-3377 Fax (775) 359-2798

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* denotes required field

Company: Broadbent & Associates		Contact: Brandon Reiff		Phone: 775-322-7969		Email: breiff@broadbentinc.com	
Address: 5450 Louie Ln., #101		City: Reno		State: NV		Zip: 89511	
Job Site: PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		6 HR	
Asbestos Air		PCM NIOSH 7400		A & B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		PLM 400 Point Count		PLM 1000 PC	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-5756 Mass	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		EPA-SW-846 7000B		Lead Dust Wipe	
Custom/Other		Custom Analysis **		Prep Only		8 Hour TWA	
Special Instruct.		Composite		Date Collected		Time On	
Sample # *		Sample Type		Date Collected		Time Off	
HA-23-3		Bulk		3/3/22		Total Time (min)	
HA-24-1						Flow Rate (pm)	
HA-24-2						On	
HA-24-3						Off	
HA-25-1						Average	
HA-25-2						Volume or Area Sampled	
HA-25-3						Hold Sample	
HA-26-1						Description *	
HA-27-1						Building 2 lt. blue painted drywall	
HA-27-2						Building 2 basement cinder block walls	
HA-27-3						"	
Submitted By *		Gregory J. Hayes		3/4/22 @ 10:20 am		"	
Date/Time Submitted *		3-4-22		1020		"	
Submitted By						"	
Date/Time Submitted						"	

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Phone (510) 704-8930 Fax (510) 704-8429

Phone (775) 359-3377 Fax (775) 359-2798

Email: breiff@broadbentinc.com

Company: Broadbent & Associates		Contact: Brandon Reiff		Phone: 775-322-7969		Email: breiff@broadbentinc.com	
Address: 5450 Louie Ln., #101		City: Reno		State: NV Zip: 89511		Email:	
Job Site: PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		8 HR	
Asbestos Air		PCM NIOSH 7400		A or B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-93-1)		PLM 400 Point Count		PLM 1000 PC	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-5756 Mass	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		Lead Dust Wipe		Crystalline Silica in Bulk (NIOSH 7500)	
Custom/Other		EPA-SW-846 7000B		EPA-SW-846 7000B		Respirable Crystalline Silica in Bulk (NIOSH 7500)	
Special Instruct.		Composite		Prep Only		8 Hour TWA	
Sample # *		Sample Type		Date Collected		Time On	
HA-28-1		Bulk		3/3/22		Time Off	
HA-28-2						Total Time (min)	
HA-28-3						Flow Rate (lpm)	
HA-29-1						On	
HA-29-2						Off	
HA-29-3						Average	
HA-30-1						Volume or Area Sampled	
HA-30-2						Hold Sample	
HA-30-3						Description *	
HA-31-1						Building 3 brick chimney	
HA-31-2						Building 3 white sheetrock walls	
Submitted By *		Gregory J. Hanes		Received By		Date/Time Received	
Date/Time Submitted *		3-4-22		3-4-22 @ 10:20 pm		Received By	
Submitted By				Date/Time Received			
Date/Time Submitted				Date/Time Received			

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* denotes required field

9 of 10

Company: Broadbent & Associates		Contact: Brandon Reiff		Phone: 775-322-7969		Email: breiff@broadbentinc.com	
Address: 5450 Louie Ln., #101		City: Reno		State: NV Zip: 89511		Email:	
Job Site: PLPT-Smith Site		Job #: 19-02-139		PO #: 19-02-139		Email:	
Reporting *		Billing		Pre-Paid		Billing Email:	
Results Due: *		2 HR		4 HR		6 HR	
Asbestos Air		PCM NIOSH 7400		A B		TEM AHERA	
Asbestos Bulk		PLM Standard (EPA 600/R-99-1)		PLM 400 Point Count		PLM 1000 PC	
Asbestos Soils		CARB 435 Prep Only		CARB 435 PLM		400 PC	
Asbestos Dust		ASTM D-5755 Fiber Count		ASTM D-5756 Wt. %		ASTM D-5756 Mass	
Asbestos Water		100.2 Potable Drinking Water		100.1 Non Potable Water		note that 100.2 will be used for all water samples unless otherwise requested	
Lead/Silica		Lead Paint Chips		Lead Dust Wipe		Lead Air	
Custom/Other		EPA SW-846 7000B		EPA SW-846 7000B		NIOSH 7082	
Special Instruct.		Composite		Prep Only		8 Hour TWA	
Sample #		Sample Type		Date Collected		Time On	
HA-31-3		Bulk		3/3/22		Time Off	
HA-32-1						Total Time (min)	
HA-32-2						Flow Rate (lpm)	
HA-32-3						On	
HA-33-1						Off	
HA-33-2						Average	
HA-33-3						Volume or Area Sampled	
HA-34-1						Hold Sample	
HA-34-2						Description *	
HA-34-3						Building 3 white sheetrock walls	
HA-35-1						Building 3 concrete pad	
Submitted By *						"	
Date/Time Submitted *		3-4-22		10:20		"	
Submitted By						Building 4 shed wall insulation pink	
Date/Time Submitted						"	
						Building 4 ceiling insulation	
						"	
						"	
						Building 4 Bathroom white vinyl sheet flooring	
Received By		Gregory J. Hines		3/4/22		10:20	
Date/Time Received							
Received By							
Date/Time Received							

** For any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. This includes dropping off samples for rush, same day analysis. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff. All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service.

