BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

June 30, 2020

Mr. Andrew Zwack
Assistant Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Re: Addendum to the Remedial Action Work Plan and Cover System Modification Plan Sites II-9 (C915198I) & II-10 (C915198J) Tecumseh Phase II Business Park, (November 2019)

Dear Mr. Zwack:

On behalf of Time Release Properties, LLC (TRP), Benchmark Environmental Engineering & Science, PLLC (Benchmark) is herein providing our scope of work to address petroleum-impacted soil/fill on Brownfield Cleanup Program (BCP) Site II-9 (see Figure 1). This document in intended to constitute an Addendum to the Remedial Action Work Plan and Cover System Modification Plan that was submitted to the Department for Sites II-9 (C915198I) and II-10 (C915198J) of the Tecumseh Phase II Business Park located in Lackawanna, NY. This Work Plan was submitted on November 10, 2019 and was accepted by the Department on January 9, 2020

BACKGROUND

TRP owns and is redeveloping Tecumseh Phase II Business Park Site II-9 and a portion of Site II-10 for TRS Packaging, a subsidiary of TMP Technologies dedicated to producing custom consumer components including the Mr. Clean Magic Eraser® product line for Procter & Gamble. Redevelopment is underway to accommodate an approximate 280,000-square foot (SF) manufacturing facility; 8,000-SF office building, and related infrastructure and site improvements, including utility services, access drives, parking, storm water detention, and landscaping.

During building foundation construction activities, weathered petroleum impacts, evident by olfactory petroleum-like odors and oily sheen, were observed within limited areas of Site II-9. No elevated photoionization detector (PID) readings were observed. Specifically, petroleum-impacted saturated soil and shallow groundwater were identified on Site II-9 in the South Loading Dock area and in the vicinity of two building foundation pile locations deemed "E-6 and E-10" (see Figure 2). During a Site visit on June 5, 2020, Benchmark proposed

2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

biotreatment as a remedy for the impacted soils to the New York State Department of Environmental Conservation (NYSDEC).

SCOPE OF WORK

Excavation

Impacted soil observed in the vicinity of the South Loading Dock and foundation piles E-6 and E-10 was excavated to depths of 8 feet below ground surface (fbgs), 14 fbgs, and 10 fbgs, respectively, as shown on Figure 2. Approximately 150 cubic yards of impacted soils are currently staged on poly sheeting on the northern portion of Site II-10 (see Figure 2). Additional petroleum-impacted soil/fill is being removed from the South Loading Dock area and will continue until the visual and olfactory impacts are removed, as it was for the E-6 and E-10 areas. This material will be transported and stockpiled on Site II-10 but is not expected to significantly add to the impacted volume currently staged for treatment. Impacted groundwater from each of the areas was pumped into an on-site Frac tank for off-site transport by Environmental Service Group (ESG) for disposal at American Recyclers, located in Tonawanda, New York.

The impacted soil/fill from foundation piles E-6 and E-10 were originally characterized for off-site disposal purposes (see Attachment 1). However, the additional volume from the loading dock makes off-site disposal substantially less economical than on-site treatment. As indicated in Attachment 1, the materials fall well below hazardous waste levels, with no chlorinated substances identified or polychlorinated biphenyls (PCBs) detected above unrestricted use Soil Cleanup Objectives (SCOs) per 6NYCRR Part 375-6. Although the South Loading Dock soils were not independently tested, oily water present at that location was sampled and found to contain no volatile organic compounds (VOCs) or PCBs (see Attachment 2). This is consistent with visual and olfactory observations that suggest weathered petroleum impacts.

Ex-Situ Biotreatment

Benchmark proposes to construct a biotreatment pad on the northern portion of Site II-10 (see Figure 2). An approximate 6" wood mulch layer will be placed over poly sheeting, and a silt sock will be installed around the perimeter of the biotreatment pad to mitigate surface erosion. The petroleum-impacted soil/fill will be transported to the pad using a front-end loader or excavator and spread across the pad to an average thickness of 1 foot. Periodic monitoring of the biotreatment area soil/ fill will be carried out to track system performance, with tilling, and moisture addition occurring as needed to promote expeditious treatment. Qualitative assessment of treatment performance will be made based on field assessment of visual and olfactory conditions, with the goal of eliminating gross impact. Once the soil/fill is considered treated, a confirmatory sample will be collected at a frequency of no less than 1 per 1,000 cubic yards of treated soil/ fill. The sample will be analyzed for NYSDEC CP-51 List VOCs and semi-volatile organic compounds (SVOCs) and compared to the lower value of NYSDEC Part 375 Protection of Groundwater or Restricted Use Commercial SCOs for VOCs and site specific action level of 500 ppm for SVOCs. Once the samples meet these

remedial objectives, the results will be provided to NYSDEC. Upon NYSDEC approval, the soil/fill will be transported back to the original excavated area.

If soils or any portion thereof cannot be treated to meet the remedial objectives they will be characterized for off-site disposal and transported to a permitted sanitary landfill under an approved waste profile. Disposal receipts for any such materials will be retained and included in the Final Engineering Report for Site II-9.

Backfilling and Regrading

Once the biotreated soil/fill passes confirmatory sampling, it will be placed and compacted as subgrade in Sites II-9 and II-10 in an area designated for cover.

Community Air Monitoring Program

The CAMP action levels included Appendix B of the November 2019 Remedial Action Work Plan shall apply to all work onsite. However, during any physical disturbance of the subject impacted materials (i.e., during relocation to the biotreatment pad, biotilling. and removal activities) a metering station with continuous VOC and particulate monitoring capability as prescribed in the referenced-CAMP will be located no greater than 50 feet of the downwind perimeter of the disturbance. This will assure CAMP action levels are enforced well over 100 feet of from the adjacent properties in all directions.

PROPOSED SCHEDULE

Benchmark is prepared to begin work immediately upon NYSDEC approval of this Work Plan. We anticipate this remedial work to be completed within 4-6 weeks. The work will be documented in the Final Engineering Report.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Principal Engineer

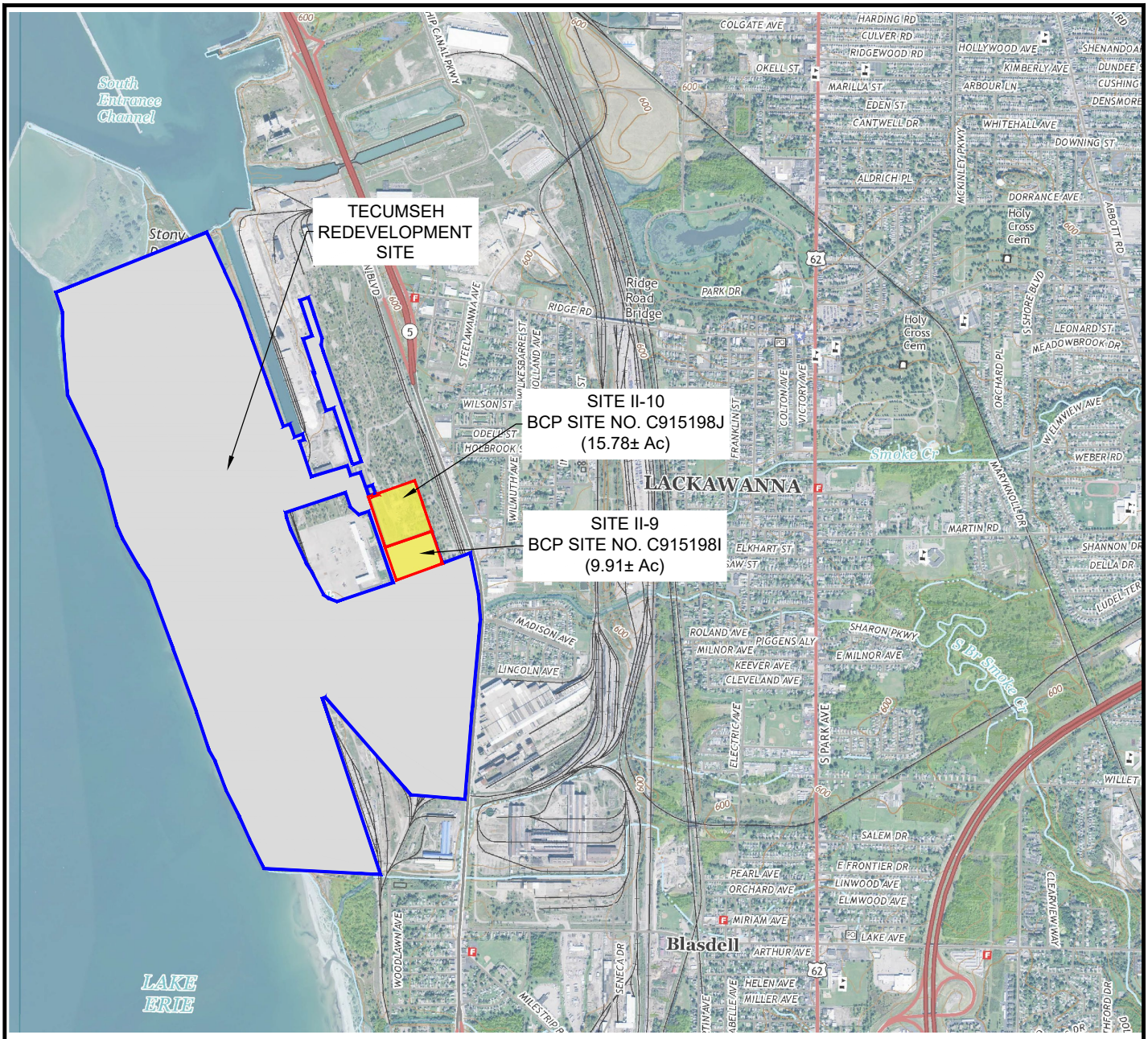
Att.

ec: Ms. Sara Bogardus (NYSDOH)
Ms. Megan Kuczka (NYSDEC)
Mr. Robert Laughlin (TMP)
Mr. Luke Stewart (TMP)

FIGURES

F:\CAD\Benchmark\TMP\Biotreatment Letter Report\Figure 1; Site Location & Vicinity Map.dwg

FIGURE 1



2,500' 0' 2,500' 5,000'

SCALE: 1 INCH = 2,500 FEET
SCALE IN FEET
(approximate)

N

LEGEND:

TECUMSEH PROPERTY

TRP SITE

BASE MAP USGS QUAD BUFFALO SE 2016

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0489-019-002

DATE: JUNE 2020

DRAFTED BY: CCB

SITE LOCATION AND VICINITY MAP

LETTER WORK PLAN FOR BIOTREATMENT OF IMPACTED SOIL

TECUMSEH PHASE II BUSINESS PARK
SITE NO.s II-9 (C915198I) & II-10 (C915198J)
LACKAWANNA, NEW YORK

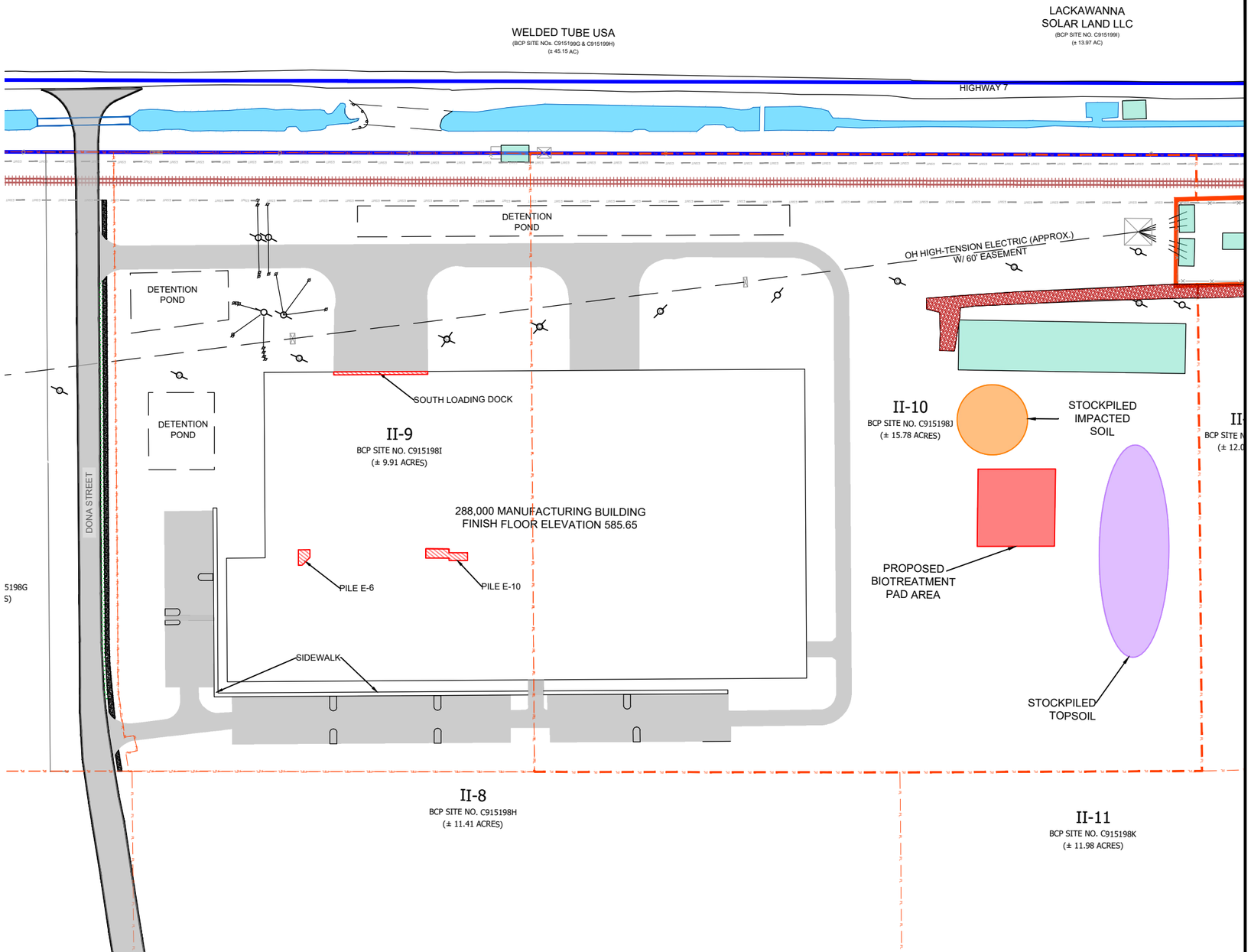
PREPARED FOR

TIME RELEASE PROPERTIES, LLC

F:\CAD\Benchmark\TMP\Biotreatment Letter Report\Figure 2; Proposed Location of Biotreatment.dwg

LEGEND:

- BCP PARCEL BOUNDARY
- RAILROAD TRACK
- EASEMENT BOUNDARY
- ELECTRIC TOWER
- POWER POLE
- GUY WIRE LOCATION
- EXISTING BUILDING WITH CONCRETE SLAB ON GRADE FOUNDATION
- ACCESS DRIVE (RUN OF CRUSH) COVER
- PLANNED ASPHALT COVER
- AREAS OF IMPACT



150' 0' 150' 300'

SCALE: 1 INCH = 150 FEET
SCALE IN FEET
(approximate)

DATE: JUNE 2020
DRAFTED BY: CCB

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

JOB NO.: 0489-019-002

PROPOSED BIOTREATMENT LOCATION OF IMPACTED SOIL

LETTER WORK PLAN FOR BIOTREATMENT OF IMPACTED SOIL
TECUMSEH PHASE II BUSINESS PARK
SITE NO.s II-9 (C915198I) & II-10 (C915198J)
LACKAWANNA, NEW YORK
PREPARED FOR
TIME RELEASE PROPERTIES, LLC

FIGURE 2

ATTACHMENT 1

SOIL WASTE CHARACTERIZATION DATA

ANALYTICAL REPORT

Lab Number:	L2013641
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	TMP
Project Number:	B0489-019-002-001
Report Date:	04/03/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2013641-01	PILE DRIVE EXCAVATION	SOIL	2303 HAMBURG TURNPIKE, LACKAWANA, NY	03/27/20 10:00	03/27/20

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2013641-01: The sample identified as "PILE DRIVE EXCAVATION" on the chain of custody was identified as "BETHLEHEM STEEL AREA DEBRIS" on the container label. At the client's request, the sample is reported as "PILE DRIVE EXCAVATION".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 04/03/20

ORGANICS

VOLATILES

Project Name: TMP **Lab Number:** L2013641

Project Number: B0489-019-002-001 **Report Date:** 04/03/20

SAMPLE RESULTS

Lab ID: L2013641-01
Client ID: PILE DRIVE EXCAVATION
Sample Location: 2303 HAMBURG TURNPIKE, LACKAWANA, NY

Date Collected: 03/27/20 10:00
Date Received: 03/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/20 09:50
Analyst: MM
Percent Solids: 81%
TCLP/SPLP Ext. Date: 03/28/20 15:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	93		70-130
dibromofluoromethane	109		70-130

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/20 05:16
Analyst: MM
TCLP/SPLP Extraction Date: 03/28/20 15:44

Extraction Date: 03/28/20 15:44

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1356360-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
dibromofluoromethane	109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1356360-3 WG1356360-4								
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	86		83		70-130	4		20
Chlorobenzene	87		83		75-130	5		25
1,2-Dichloroethane	110		110		70-130	0		20
Benzene	99		95		70-130	4		25
Vinyl chloride	81		79		55-140	3		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	100		98		70-130	2		25
1,4-Dichlorobenzene	89		85		70-130	5		20
2-Butanone	110		100		63-138	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	82		82		70-130
dibromofluoromethane	106		108		70-130

SEMIVOLATILES

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2013641
Report Date: 04/03/20

SAMPLE RESULTS

Lab ID: L2013641-01
Client ID: PILE DRIVE EXCAVATION
Sample Location: 2303 HAMBURG TURNPIKE, LACKAWANA, NY

Date Collected: 03/27/20 10:00
Date Received: 03/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/03/20 02:45
Analyst: WR
Percent Solids: 81%
TCLP/SPLP Ext. Date: 03/28/20 21:05

Extraction Method: EPA 3510C
Extraction Date: 03/30/20 16:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		21-120
Phenol-d6	87		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	108		33-120

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/02/20 23:06
Analyst: WR
TCLP/SPLP Extraction Date: 03/28/20 21:05

Extraction Method: EPA 3510C
Extraction Date: 03/30/20 16:37

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1356534-1					
Hexachlorobenzene	ND		ug/l	10	2.9
2,4-Dinitrotoluene	ND		ug/l	25	4.2
Hexachlorobutadiene	ND		ug/l	10	3.6
Hexachloroethane	ND		ug/l	10	3.4
Nitrobenzene	ND		ug/l	10	3.8
2,4,6-Trichlorophenol	ND		ug/l	25	3.4
Pentachlorophenol	ND		ug/l	50	17.
2-Methylphenol	ND		ug/l	25	5.1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6
2,4,5-Trichlorophenol	ND		ug/l	25	3.6
Pyridine	ND		ug/l	18	9.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		21-120
Phenol-d6	81		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	104		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1356534-2 WG1356534-3								
Hexachlorobenzene	74		82		40-140	10		30
2,4-Dinitrotoluene	82		92		40-132	11		30
Hexachlorobutadiene	74		81		28-111	9		30
Hexachloroethane	69		78		21-105	12		30
Nitrobenzene	75		85		40-140	13		30
2,4,6-Trichlorophenol	75		84		30-130	11		30
Pentachlorophenol	62		69		9-103	11		30
2-Methylphenol	68		76		30-130	11		30
3-Methylphenol/4-Methylphenol	75		83		30-130	10		30
2,4,5-Trichlorophenol	78		87		30-130	11		30
Pyridine	64		46		10-66	**33**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		72		21-120
Phenol-d6	63		69		10-120
Nitrobenzene-d5	75		82		23-120
2-Fluorobiphenyl	68		76		15-120
2,4,6-Tribromophenol	77		86		10-120
4-Terphenyl-d14	75		84		33-120

PCBS

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2013641
Report Date: 04/03/20

SAMPLE RESULTS

Lab ID: L2013641-01
Client ID: PILE DRIVE EXCAVATION
Sample Location: 2303 HAMBURG TURNPIKE, LACKAWANA, NY

Date Collected: 03/27/20 10:00
Date Received: 03/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/03/20 09:53
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 03/31/20 17:53
Cleanup Method: EPA 3665A
Cleanup Date: 04/01/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.51	1	A
Aroclor 1221	ND		ug/kg	39.5	3.96	1	A
Aroclor 1232	ND		ug/kg	39.5	8.37	1	A
Aroclor 1242	29.4	J	ug/kg	39.5	5.32	1	B
Aroclor 1248	ND		ug/kg	39.5	5.92	1	A
Aroclor 1254	ND		ug/kg	39.5	4.32	1	A
Aroclor 1260	ND		ug/kg	39.5	7.30	1	A
Aroclor 1262	ND		ug/kg	39.5	5.02	1	A
Aroclor 1268	27.8	J	ug/kg	39.5	4.09	1	B
PCBs, Total	57.2	J	ug/kg	39.5	3.51	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/31/20 12:28
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 03/31/20 05:22
Cleanup Method: EPA 3665A
Cleanup Date: 03/31/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1356646-1						
Aroclor 1016	ND		ug/kg	32.4	2.88	A
Aroclor 1221	ND		ug/kg	32.4	3.24	A
Aroclor 1232	ND		ug/kg	32.4	6.86	A
Aroclor 1242	ND		ug/kg	32.4	4.36	A
Aroclor 1248	ND		ug/kg	32.4	4.86	A
Aroclor 1254	ND		ug/kg	32.4	3.54	A
Aroclor 1260	ND		ug/kg	32.4	5.98	A
Aroclor 1262	ND		ug/kg	32.4	4.11	A
Aroclor 1268	ND		ug/kg	32.4	3.35	A
PCBs, Total	ND		ug/kg	32.4	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1356646-2 WG1356646-3									
Aroclor 1016	88		88		40-140	0		50	A
Aroclor 1260	81		79		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		87		30-150	A
Decachlorobiphenyl	76		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	B
Decachlorobiphenyl	77		72		30-150	B

METALS

Project Name: TMP **Lab Number:** L2013641

Project Number: B0489-019-002-001 **Report Date:** 04/03/20

SAMPLE RESULTS

Lab ID: L2013641-01 Date Collected: 03/27/20 10:00

Client ID: PILE DRIVE EXCAVATION Date Received: 03/27/20

Sample Location: 2303 HAMBURG TURNPIKE, LACKAWANA, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 03/28/20 21:05

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Barium, TCLP	0.199	J	mg/l	0.500	0.021	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Lead, TCLP	0.037	J	mg/l	0.500	0.027	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/31/20 17:29	04/01/20 12:27	EPA 7470A	1,7470A	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/31/20 17:01	04/01/20 22:27	EPA 3015	1,6010D	LC

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2013641
Report Date: 04/03/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1356771-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Barium, TCLP	ND		mg/l	0.500	0.021	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Lead, TCLP	ND		mg/l	0.500	0.027	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/31/20 17:01	04/01/20 21:08	1,6010D	LC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 03/28/20 05:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1356774-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/31/20 17:29	04/01/20 11:52	1,7470A	GD

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 03/28/20 05:45

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMP

Project Number: B0489-019-002-001

Lab Number: L2013641

Report Date: 04/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1356771-2								
Arsenic, TCLP	108		-		75-125	-		20
Barium, TCLP	98		-		75-125	-		20
Cadmium, TCLP	101		-		75-125	-		20
Chromium, TCLP	102		-		75-125	-		20
Lead, TCLP	101		-		75-125	-		20
Selenium, TCLP	108		-		75-125	-		20
Silver, TCLP	97		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1356774-2								
Mercury, TCLP	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1356771-3 QC Sample: L2000004-17 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.27	106		-	-		75-125	-		20
Barium, TCLP	0.151J	20	19.4	97		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.502	98		-	-		75-125	-		20
Chromium, TCLP	0.451	2	2.39	97		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.02	98		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.28	107		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.460	92		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1356774-3 QC Sample: L2000004-08 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0261	104		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1356771-4 QC Sample: L2000004-17 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.151J	0.143J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	0.451	0.454	mg/l	1		20
Lead, TCLP	ND	0.040J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1356774-4 QC Sample: L2000004-08 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

SAMPLE RESULTS

Lab ID: L2013641-01
Client ID: PILE DRIVE EXCAVATION
Sample Location: 2303 HAMBURG TURNPIKE, LACKAWANA, NY

Date Collected: 03/27/20 10:00
Date Received: 03/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	03/28/20 10:42	121,2540G	RI
Flash Point	>150		deg F	70	NA	1	-	03/29/20 14:45	1,1010A	AG
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/29/20 17:04	03/29/20 18:17	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/29/20 17:04	03/29/20 18:12	125,7.3	KF

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1356240-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/29/20 17:04	03/29/20 18:11	125,7.3	KF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1356241-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/29/20 17:04	03/29/20 18:17	125,7.3	KF

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMP

Project Number: B0489-019-002-001

Lab Number: L2013641

Report Date: 04/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1356192-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1356240-2								
Sulfide, Reactive	103		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1356241-2								
Cyanide, Reactive	97		-		30-125	-		40

Lab Duplicate Analysis

Batch Quality Control

Project Name: TMP

Project Number: B0489-019-002-001

Lab Number: L2013641

Report Date: 04/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1356070-1 QC Sample: L2013720-30 Client ID: DUP Sample						
Solids, Total	87.0	86.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1356192-2 QC Sample: L2013305-01 Client ID: DUP Sample						
Flash Point	141	143	deg F	1		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1356240-3 QC Sample: L2013708-06 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1356241-3 QC Sample: L2013708-06 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2013641
Report Date: 04/03/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2013641-01A	Vial Large Septa unpreserved (4oz)	A	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2013641-01B	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L2013641-01C	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		REACTS(14),FLASH(),REACTCN(14)
L2013641-01D	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8082(14)
L2013641-01Q	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2013641-01W	Amber 1000ml unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-8270(14)
L2013641-01X	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)
L2013641-01Y	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)
L2013641-01Z	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TMP	**Lab Number:**	L2013641
Project Number:	B0489-019-002-001	**Report Date:**	04/03/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/28/20

ALPHA Job #: L2013641

Client Information
Client: Benchmark Environmental
Address: 2558 Hamburg Turnpike Ste. 300, Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: ewilcox@bm-tk.com

Project Information
Project Name: TMP
Project Location: 2303 Hamburg Turnpike, Lackawanna, NY
Project #: B0489-019-002-001
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Also copy tforbes@bm-tk.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	FLASH	Reactive Cyanide	Reactive Sulfide	PCBs	TCLP Metals	TCLP VOAs	TCLP SVOAs	T.S	Sample Specific Comments	Total Bottle
13641-01	Pile Drive Excavation	3/27/20	10:00	Soil	EAW	X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A	A	W	A	P
Preservative	A	A	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	3/27/20 1255	AMK	3/27/20 1255
AMK	3/27/20 1300		3/28/20 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ATTACHMENT 2

OILY WATER ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L2022249
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	TMP
Project Number:	B0489-019-002-001
Report Date:	06/01/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2022249-01	SOUTHWEST LOADING DOCK	OIL	6 DANA STREET, LACKAWANNA, NY	05/29/20 10:00	05/29/20
L2022249-02	SOUTHWEST LOADING DOCK	WATER	6 DANA STREET, LACKAWANNA, NY	05/29/20 10:05	05/29/20

Project Name:	TMP	**Lab Number:**	L2022249
Project Number:	B0489-019-002-001	**Report Date:**	06/01/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TMP	**Lab Number:**	L2022249
Project Number:	B0489-019-002-001	**Report Date:**	06/01/20

Case Narrative (continued)

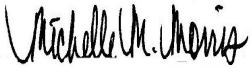
Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2022249-02: The sample has elevated detection limits due to the dilution required by the sample matrix (oily).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 06/01/20

ORGANICS

VOLATILES

Project Name: TMP **Lab Number:** L2022249

Project Number: B0489-019-002-001 **Report Date:** 06/01/20

SAMPLE RESULTS

Lab ID: L2022249-02 D
Client ID: SOUTHWEST LOADING DOCK
Sample Location: 6 DANA STREET, LACKAWANNA, NY

Date Collected: 05/29/20 10:05
Date Received: 05/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/31/20 18:27
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	ND		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	ND		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: TMP **Lab Number:** L2022249

Project Number: B0489-019-002-001 **Report Date:** 06/01/20

SAMPLE RESULTS

Lab ID: L2022249-02 D
Client ID: SOUTHWEST LOADING DOCK
Sample Location: 6 DANA STREET, LACKAWANNA, NY

Date Collected: 05/29/20 10:05
Date Received: 05/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	6.6	J	ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: TMP **Lab Number:** L2022249

Project Number: B0489-019-002-001 **Report Date:** 06/01/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/31/20 11:06
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1376536-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: TMP **Lab Number:** L2022249

Project Number: B0489-019-002-001 **Report Date:** 06/01/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/31/20 11:06
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1376536-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2022249
Report Date: 06/01/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/31/20 11:06
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1376536-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1376536-3 WG1376536-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	99		99		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	93		93		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	94		95		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	87		86		67-130	1		20
Benzene	100		100		70-130	0		20
Toluene	94		95		70-130	1		20
Ethylbenzene	95		96		70-130	1		20
Chloromethane	90		89		64-130	1		20
Bromomethane	110		110		39-139	0		20
Vinyl chloride	98		97		55-140	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1376536-3 WG1376536-4								
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	92		93		70-130	1		20
1,3-Dichlorobenzene	94		95		70-130	1		20
1,4-Dichlorobenzene	93		95		70-130	2		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	98		89		58-148	10		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	95		99		63-138	4		20
4-Methyl-2-pentanone	88		87		59-130	1		20
2-Hexanone	80		77		57-130	4		20
Bromochloromethane	110		120		70-130	9		20
1,2-Dibromoethane	99		98		70-130	1		20
1,2-Dibromo-3-chloropropane	94		100		41-144	6		20
Isopropylbenzene	93		93		70-130	0		20
1,2,3-Trichlorobenzene	95		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1376536-3 WG1376536-4								
1,2,4-Trichlorobenzene	98		97		70-130	1		20
Methyl Acetate	88		86		70-130	2		20
Cyclohexane	99		99		70-130	0		20
1,4-Dioxane	102		100		56-162	2		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	93		93		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	105		107		70-130

PCBS

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2022249
Report Date: 06/01/20

SAMPLE RESULTS

Lab ID: L2022249-01
Client ID: SOUTHWEST LOADING DOCK
Sample Location: 6 DANA STREET, LACKAWANNA, NY

Date Collected: 05/29/20 10:00
Date Received: 05/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8082A
Analytical Date: 05/30/20 12:12
Analyst: CW
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3580A
Extraction Date: 05/30/20 03:08
Cleanup Method: EPA 3665A
Cleanup Date: 05/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	2.00	0.341	1	A
Aroclor 1221	ND		mg/kg	2.00	0.341	1	A
Aroclor 1232	ND		mg/kg	2.00	0.341	1	A
Aroclor 1242	ND		mg/kg	2.00	0.341	1	A
Aroclor 1248	ND		mg/kg	2.00	0.341	1	A
Aroclor 1254	ND		mg/kg	2.00	0.341	1	A
Aroclor 1260	ND		mg/kg	2.00	0.341	1	A
Aroclor 1262	ND		mg/kg	2.00	0.341	1	A
Aroclor 1268	ND		mg/kg	2.00	0.341	1	A
PCBs, Total	ND		mg/kg	2.00	0.341	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/30/20 12:20
Analyst: CW

Extraction Method: EPA 3580A
Extraction Date: 05/30/20 03:08
Cleanup Method: EPA 3665A
Cleanup Date: 05/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1376005-1						
Aroclor 1016	ND		mg/kg	2.00	0.342	A
Aroclor 1221	ND		mg/kg	2.00	0.342	A
Aroclor 1232	ND		mg/kg	2.00	0.342	A
Aroclor 1242	ND		mg/kg	2.00	0.342	A
Aroclor 1248	ND		mg/kg	2.00	0.342	A
Aroclor 1254	ND		mg/kg	2.00	0.342	A
Aroclor 1260	ND		mg/kg	2.00	0.342	A
Aroclor 1262	ND		mg/kg	2.00	0.342	A
Aroclor 1268	ND		mg/kg	2.00	0.342	A
PCBs, Total	ND		mg/kg	2.00	0.342	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	57		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1376005-2 WG1376005-3									
Aroclor 1016	48		49		40-140	2		50	A
Aroclor 1260	44		45		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		47		30-150	A
Decachlorobiphenyl	54		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		45		30-150	B
Decachlorobiphenyl	54		55		30-150	B

METALS

Project Name: TMP **Lab Number:** L2022249

Project Number: B0489-019-002-001 **Report Date:** 06/01/20

SAMPLE RESULTS

Lab ID: L2022249-01 Date Collected: 05/29/20 10:00

Client ID: SOUTHWEST LOADING DOCK Date Received: 05/29/20

Sample Location: 6 DANA STREET, LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Oil

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.61		mg/kg	1.43	0.298	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Barium, Total	23.8		mg/kg	1.43	0.249	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	1.43	0.140	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Chromium, Total	1.42	J	mg/kg	1.43	0.138	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Lead, Total	576		mg/kg	7.16	0.384	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.063	0.041	1	05/30/20 09:35	05/30/20 13:17	EPA 7471B	1,7471B	AL
Selenium, Total	0.559	J	mg/kg	2.86	0.370	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.43	0.405	1	05/30/20 09:00	06/01/20 09:38	EPA 3050B	1,6010D	LC

Project Name: TMP
Project Number: B0489-019-002-001
Lab Number: L2022249
Report Date: 06/01/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1376062-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/30/20 09:35	05/30/20 13:13	1,7471B	AL

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1376067-1										
Arsenic, Total	ND		mg/kg	1.67	0.347	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Barium, Total	0.350	J	mg/kg	1.67	0.290	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Cadmium, Total	ND		mg/kg	1.67	0.163	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Chromium, Total	0.183	J	mg/kg	1.67	0.160	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Lead, Total	ND		mg/kg	8.33	0.447	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Selenium, Total	ND		mg/kg	3.33	0.430	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC
Silver, Total	ND		mg/kg	1.67	0.472	1	05/30/20 09:00	06/01/20 09:02	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMP

Project Number: B0489-019-002-001

Lab Number: L2022249

Report Date: 06/01/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1376062-2								
Mercury, Total	90		-		72-128	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1376067-2 WG1376067-3								
Arsenic, Total	102		99		79-121	3		
Barium, Total	98		98		83-117	0		
Cadmium, Total	99		97		83-117	2		
Chromium, Total	100		99		80-120	1		
Lead, Total	99		97		81-117	2		
Selenium, Total	100		98		78-122	2		
Silver, Total	98		98		75-124	0		

Matrix Spike Analysis
Batch Quality Control

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1376062-3 QC Sample: L2022249-01 Client ID: SOUTHWEST LOADING DOCK												
Mercury, Total	ND	0.134	0.113	84		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TMP

Project Number: B0489-019-002-001

Lab Number: L2022249

Report Date: 06/01/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1376062-4 QC Sample: L2022249-01 Client ID: SOUTHWEST LOADING DOCK						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: TMP
Project Number: B0489-019-002-001

Lab Number: L2022249
Report Date: 06/01/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2022249-01A	Amber 250ml unpreserved	A	NA		3.7	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2022249-01B	Amber 250ml unpreserved	A	NA		3.7	Y	Absent		NYTCL-8082-2PPM(14)
L2022249-02A	Vial unpreserved	A	NA		3.7	Y	Absent		NYTCL-8260-R2(7)
L2022249-02B	Vial unpreserved	A	NA		3.7	Y	Absent		NYTCL-8260-R2(7)
L2022249-02C	Vial unpreserved	A	NA		3.7	Y	Absent		NYTCL-8260-R2(7)

*Values in parentheses indicate holding time in days

Project Name:	TMP	**Lab Number:**	L2022249
Project Number:	B0489-019-002-001	**Report Date:**	06/01/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	TMP	**Lab Number:**	L2022249
Project Number:	B0489-019-002-001	**Report Date:**	06/01/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	TMP	**Lab Number:**	L2022249
Project Number:	B0489-019-002-001	**Report Date:**	06/01/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/30/20

ALPHA Job #: L2022249

Client Information

Client: Benchmark Environmental
Address: 2558 Hamburg Turnpike Ste 300, Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: eviglienzo@bm-tk.com

Project Information

Project Name: TMP
Project Location: 6 Dona Street, Lackawanna, NY
Project #: B0489-019-002-001
(Use Project name as Project #)
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved): X
Due Date:
# of Days: 24 hours

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Also copy tforbes@bm-tk.com

Please specify Metals or TAL.

Deliverables

- ASP-A
- ASP-B
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement

- NY TOGS
- NY Part 375
- ~~AWQ Standards~~
- ~~NY CP-51~~
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information

- Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- NJ
- NY
- Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	RCRA Metals	TCL VOCs	Total Bottle
22249 -01	Southwest Loading Dock	5/29/20	10:00	oil	EW	X	X		
-02	Southwest Loading Dock	5/29/20	10:05	water	EW			X	

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	V
Preservative	A	A	B

Relinquished By:	Date/Time	Received By:	Date/Time
	5/29/20		5/29/20 1302
	5/29/20 1700		5/30/20 00:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)