Construction Completion Report

Metal-Impacted Hotspots
Business Park Sub-parcels II-2, II-3, II-5 & II-11
Lackawanna, New York
BCP Sites C915198B, C915198C, C915198E & C915198K

January 2014 0071-013-325

Prepared For:

Tecumseh Redevelopment Inc.
Richfield, Ohio

Prepared By:

TurnKey Environmental Restoration, LLC

Benchmark Environmental Engineering & Science, PLLC

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CONSTRUCTION COMPLETION REPORT
FOR
METAL-IMPACTED HOTSPOTS

BUSINESS PARK SUBPARCELS
II-2, II-3, II-5 and II-11

BCP Site Nos. C915198B, C915198C, C915198E and C915198K

TECUMSEH REDEVELOPMENT INC.
LACKAWANNA, NEW YORK

January 2014 0071-013-325

Prepared for:

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Prepared by:

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In association with:

Benchmark Environmental Engineering & Science, PLLC

CERTIFICATION

I, Thomas H. Forbes, P.E., certify that I am currently a NYS registered professional engineer and that this Construction Completion Report (CCR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Thomas H. Forbes, P.E. — Date: 1-24-14

License No.: 070950-1

Registration State: New York

SEAL:

CONSTRUCTION COMPLETION REPORT
FOR
METAL-IMPACTED HOTSPOTS
SUB-PARCELS II-2, II-3, II-5, AND II-11
BCP SITE NOS. C915198B, C915498C, C915198E, AND C915198K
LACKAWANNA, NEW YORK

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LACKAWANNA, NEW YORK

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1.0 INTRODUCTION

This document presents work completed under an Interim Remedial Measure (IRM) within sub-parcels II-2, II-3, II-5, and II-11 (Site Nos. C915198B, C915198C, C915198E, and C915198K) of the Tecumseh Phase II Business Park Brownfield Cleanup Program (BCP) Site in Lackawanna, NY (see Figures 1 and 2).

The IRM work was completed on behalf of Tecumseh Redevelopment Inc. (Tecumseh) through the New York State Department of Environmental Conservation (NYSDEC) BCP to address metal-impacted "hotspot" slag/fill previously identified within the subject sub-parcel areas. Remediation of these metal-impacted hotspots under an IRM program was undertaken to expedite cleanup of the associated impacts while facilitating redevelopment of the subject BCP Sites for commercial and industrial reuse.

1.1 Background

1.1.1 Remedial Investigation

The 142.17-acre Phase II Business Park formerly housed several facilities associated with the Bethlehem Steel Corporation's (BSC's) steel manufacturing processes. These included a pure oxygen generating station (known as South Linde Area); various mills; a structural shipping yard; a car repair shop; metal storage; and miscellaneous office production support buildings. Five historical SWMUs (i.e., P-38 through P-42) are present within the Phase II Business Park. BSC performed assessments for these SWMUs during a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) and subsequent RCRA Facility Investigation (RFI). Based on the findings, USEPA Region II issued "No Further Action" determination for the identified SWMUs within the Phase II Business Park.

The BCP application for the Site was submitted May 20, 2005 and approved January 9, 2007. The Remedial Investigation/Alternatives Analysis Report (RI/AAR) Work Plan, revised July 2009, identified Site characterization requirements to be completed pursuant to the BCP and NYSDEC DER-10 guidance. Remedial Investigation (RI) field activities were initiated in March 2010 and substantially completed in April 2010.

The RI/AA Report was submitted to NYSDEC in May 2011 and revised and finalized in March 2012. The RI/AA Report recommended remediation of hotspot

slag/fill with deferred soil cover system placement during redevelopment recommended as the final remedial measure for all areas of the Site.

1.1.2 Sub-Parcel Approach

The Phase II Business Park as well as other Tecumseh Business Parks (i.e., I, IA, and III) were so designated by Tecumseh based on the concept of voluntarily remediating them and subsequently selling or leasing the "shovel-ready" Business Park parcels to local developers or private businesses interested in redeveloping the land for commercial or industrial uses consistent with City zoning. Recognizing the sheer size of these parcels, the cost and short-term impacts associated with cleanup, and the limited western NY commercial/industrial real estate market demand, a sub-parcel cleanup approach was conceived by Tecumseh and agreed upon by the NYSDEC. Under the sub-parcel approach, hotspot slag/fill remediation and other remedial measures (except cover placement) will be performed by Tecumseh on a priority basis (i.e., parcels pending potential sale, lease, and/or redevelopment first). Placement of the final cover will also progress on a sub-parcel basis by the buyer or lessee concurrent with building construction and/or other site improvements, thereby allowing the cover to be integrated with roads, buildings, parking areas, etc. Certificate of Completion (COC) issuance by the NYSDEC will also occur on a sub-parcel basis after cover is placed by the buyer/developer (subject to provisions of a NYSDEC-approved Site Management Plan and Environmental Easement encompassing entire Business Park).

Based on this approach, Tecumseh prepared sub-parcel delineation maps for each of the three larger Business Park Areas (I, II, and III). Business Park II was subdivided into twelve sub-parcels designated as II-1 through II-12 (Sites C915198 through C915198L, respectively).

1.1.3 IRM Work Plan

The proposed IRM activities were presented in the NYSDEC-approved July 2013 IRM Work Plan for Business Park Sub-Parcels II-2, II-3, II-5, and II-11, prepared by TurnKey in association with Benchmark Environmental Engineering & Science, PLLC. Completion of the proposed work as an IRM furthered the sub-parcel remediation progress making the sites more attractive to prospective buyers. In general, the planned work included:

- Excavation and off-site disposal of arsenic-impacted hotspot slag/fill.
- Loading, transportation and off-site commercial solid waste landfill disposal of the hotspot slag/fill.

1.2 Purpose and Scope

This CCR includes a summary of interim remedial measure (IRM) activities undertaken on Business Parks II-2, II-3, II-5, and II-11. This Construction Completion Report (CCR) has been prepared to document "as constructed" details for the work, including results of environmental monitoring and post-excavation documentation samples. NYSDEC-approved deviations from the approved IRM Work Plan, issues encountered, and remedies are also described herein.

The CCR has been prepared using guidance from Section 5.8 of DER-10 and includes:

- Text describing the hotspot removal, regarding, and disposal activities performed. This includes an evaluation of the IRM activities against the Remedial Action Objectives for hotspot removal in the subject Phase II-2, II-3, II-5, and II-11 sub-parcels.
- A description of any problems encountered, deviations from the work plan, and associated corrective measures taken; and other pertinent information necessary to document that the Site activities were carried out in accordance with the governing document (IRM Work Plan) identified in Section 2.2 of this report.
- A Site or area planimetric map showing the extent of hotspot areas excavated.
- The mass of hotspot material excavated per scale receipts from the off-site disposal facility.
- Copies of daily inspection reports and, if applicable, problem identification and corrective measure reports.
- A certification by a licensed NYS Professional Engineer in accordance with Section 1.5 of DER-10.

The IRM CCR will be referenced in the Final Engineering Reports for sub-parcels II-2, II-3, II-5, and II-11, which will be prepared by the sub-parcel purchaser to document satisfactory cover placement and other requirements under the BCP as necessary to secure a COC.

2.0 DESCRIPTION OF IRM ACTIVITIES PERFORMED

2.1 Remedial Objectives

Remedial objectives for subject IRM work involved removal of known hotspots from the Business Park II sub-parcels II-2, II-3, II-5, and II-11, including arsenic-impacted slag/fill above the site-specific action level of 118 parts per million and grossly-impacted slag/fill, which included areas exhibiting field evidence of petroleum impact. These remedial objectives were established, consistent with the approved RI-AA Report, with the intent of rendering the site suitable for final remedial measure construction (i.e., site cover and engineering/institutional controls).

2.2 Governing Documents

The governing document for the Business Park II sub-parcels II-2, II-3, II-5, and II-11 activities is identified as follows:

- Interim Remedial Measures (IRM) Work Plan for Business Park Sub-parcels II-2, II-3, II-5, and II-11. TurnKey/Benchmark, July 2013. (*Includes Site-Specific Health and Safety Plan and Community Air Monitoring Plan*).

2.3 General Site and Nuisance Controls

Due to the relatively small areas of disturbance required to complete the sub-parcel II-2, II-3, II-5, and II-11 IRM work and the permeable nature of the slag (which precludes surface water runoff) no specific nuisance controls were required. The selected General/Site Work contractor was prepared to implement dust control, if needed, however the relatively minor nature of the intrusive work and favorable community air monitoring results (see below) precluded the need for dust suppression.

2.4 Community Air Monitoring Results

Community air monitoring was performed during times of impacted soil/fill excavation work, excluding dates where precipitation mitigated emissions and precluded monitor setup. Community air monitoring documentation is contained in Appendix C. No exceedances of the Community Air Monitoring Plan action levels were recorded during the work.

2.5 Excavation and Re-grading of Hotspot Areas

2.5.1 *Waste Characterization*

Prior to performing the remedial work, Benchmark collected a waste characterization sample to determine the suitability of the impacted soil/slag-fill to be disposed off-site as non-hazardous waste. Specifically, a composite sample was collected from each of the five areas designated for disposal and analyzed for leachable (RCRA-regulated) metals in accordance with the TCLP. Analytical results are summarized in the IRM Work Plan. Based on the waste characterization results, the soil/slag-fill material from the five areas of excavation was deemed suitable for off-site disposal as non-hazardous waste.

2.5.2 Arsenic-Impacted Hotspot Excavations

IRM activities were initiated on August 1, 2013. Zoladz Construction Company of Alden, New York was retained under subcontract to TurnKey to provide excavation and trucking services. Following survey stakeout of the original hotspot coordinates, excavation of arsenic-impacted soil/slag-fill was initially completed to pre-established limits based on the supplemental RI test pit investigations performed in February 2012.

- Hotspot J (Test Pit BPA2-TP-10): Excavation proceeded to a depth of 2 feet below grade within a footprint of 30 feet by 20 feet.
- Hotspot K (Test Pit BPA2-TP-21): Excavation proceeded to a depth of 2 feet below grade within a footprint of 25 feet by 20 feet.
- Hotspot M (Test Pit BPA2-TP-52): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 20 feet.
- Hotspot N (Test Pit BPA2-TP-58): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 25 feet.
- Hotspot O (Test Pit BPA2-TP-103): Excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 30 feet.

In accordance with the approved IRM Work Plan, documentation samples were collected from the floor and sidewalls of the arsenic hotspot areas following completion of the excavation work and compared to the Site-Specific Action Levels (SSALs) for arsenic of 118 parts per million. The excavated soil/fill material was temporarily

stockpiled on-Site within the excavation footprint pending receipt and review of the sample data. Documentation sample results are presented in Section 2.6.

At Test Pits BPA2-TP-10, BPA2-TP-52, and BPA2-TP-103 the documentation results fell below the SSAL in all samples except the southern excavation walls. The southern excavation walls for each of the excavations were generally extended an additional 5 to 10 feet in the same direction, retested for arsenic, and if necessary excavated an addition 5 to 10 feet and retested until the corresponding sample concentrations fell below the SSAL. At Test Pit BPA2-TP-21 and BPA2-TP-58, compliance sampling for all four sidewall samples and the bottom sample fell below the arsenic SSAL. Accordingly, no further excavation work was performed at these locations. The final dimensions of all Test Pits are provided below, depicted on Figure 3, and tabulated on Table 1, attached.

- Hotspot J (Test Pit BPA2-TP-10): Final excavation completed to a depth of 2 feet below grade within a footprint of 30 feet by 40 feet. A total of 179.05 tons of material was disposed of off-Site.
- Hotspot K (Test Pit BPA2-TP-21): Final excavation completed to a depth of 2 feet below grade within a footprint of 25 feet by 20 feet. A total of 88.23 tons of material was disposed of off-site.
- Hotspot M (Test Pit BPA2-TP-52): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 30 feet. A total of 43.51 tons of material was disposed of off-site.
- Hotspot N (Test Pit BPA2-TP-58): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 25 feet. A total of 68.38 tons of material was disposed of off-site.
- Hotspot O (Test Pit BPA2-TP-103): Final excavation proceeded to a depth of 2 feet below grade within a footprint of 20 feet by 45 feet. A total of 151.95 tons of material was disposed of off-site.

2.5.3 *Lead-Impacted Hotspot Excavation*

In addition to the above-referenced work outlined in the IRM Work Plan, an elevated concentration of lead (12,300 mg/kg) was detected at Test Pit BPA2-TP-58 in exceedance of the lead SSAL (3,600 mg/kg) during the Remedial Investigation (see the

RI/AAR). Accordingly, the excavation sidewall and bottom samples for Hotspot N were also analyzed for lead. All samples fell below the lead SSAL and no further excavation work was performed at this location.

2.5.4 Hotspot Disposal

Arsenic- and lead-impacted materials were transported by Zoladz Construction (License 9A499) to the Chautauqua County Ellery Landfill, a permitted RCRA Subtitle D sanitary landfill facility, in accordance with Disposal Permit CC0715.13S1 issued on July 16, 2013 (see Appendix D). All material was shipped off-Site on December 5-6, 2013. Copies of non-hazardous waste disposal manifests are presented in Appendix E. Scale receipt information provided by the landfill indicated a total disposal weight of 531.12 tons. Copies of the scale receipts are presented in Appendix F.

2.5.5 Backfill and/or Re-grading of Excavations

With the exception of Hotspot M, excavation areas were not backfilled to grade pending Site development. Instead, the sides of the 2-foot deep excavations were gradually sloped and graded to make a smooth transition to the surrounding area. This will minimize waste generation during site redevelopment, as excess fill generated from onsite foundation work and subgrade utility installation can be placed in these excavation areas if approved by the NYSDEC.

Due to the proximity to the railroad tracks, Hotspot M was backfilled with 30 tons of BUD-approved slag (BUD# 555-9-15) from Iron City.

2.5.6 Soil Cover System

Exposure to remaining slag/fill at the site will be prevented by a cover system placed over the site. The cover system will, ideally, be installed by Site purchaser(s) as a component of the site redevelopment. The cover system will consist of either a demarcation layer atop the remaining slag/fill followed by a 12-inch compacted slag layer in general yard and material laydown areas, or 12-inches of clean soil with a vegetated surface in landscaped areas. Asphalt pavement, concrete floors/exterior slabs, and concrete walks may provide cover in other areas of the property. A Remedial Action

Work Plan documenting the proposed cover plan will be prepared and submitted to the Department for approval under separate cover prior to undertaking the work.

2.6 Documentation Sampling

Per the July 2013 IRM Work Plan, documentation sample results were collected from the sidewalls and base of the arsenic-impacted soil/fill excavation areas. Documentation sample results are included in Appendix G. Final results for the completed excavations are summarized on Table 1. As indicated, all sample concentrations fell below the arsenic or lead SSALs of 118 and 3,600 mg/kg, respectively.

2.7 Issues Encountered and Corrective Actions

No issues or corrective actions were undertaken as part of the implementation of the above-described IRM implementation.

TABLES

TABLE 1

HOTSPOT SOIL ANALYTICAL SUMMARY

BUSINESS PARKS II-2, II-3, II-5, AND II-11

BUFFALO, NY

PARAMETER[1]	Site Specific Soil Cleanup Objectives	Sample Location														
		Hotspot J					Hotspot K					Hotspot M				
		10 North	30 South	10 East	20 West	Floor (2')	10 North	10 South	15 East	10 West	Floor (2')	10 North	20 South	10 East	10 West	Floor (2')
Total Metals - mg/Kg																
Arsenic	**118**	47	30	60	90	91	28	94	68	59	51	42	90	86	63	42

PARAMETER[1]	Site Specific Soil Cleanup Objectives	Sample Location									
		Hotspot N					Hotspot O				
		10 North	15 South	10 East	10 West	Floor (2')	10 North	45 South	10 East	10 West	Floor (2')
Total Metals - mg/Kg											
Arsenic	**118**	100	51	46	51	63	5.7	96	87	14	19
Lead	**3,900**	390	280	230	520	160	-	-	-	-	-

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter or parameter not analysed for.

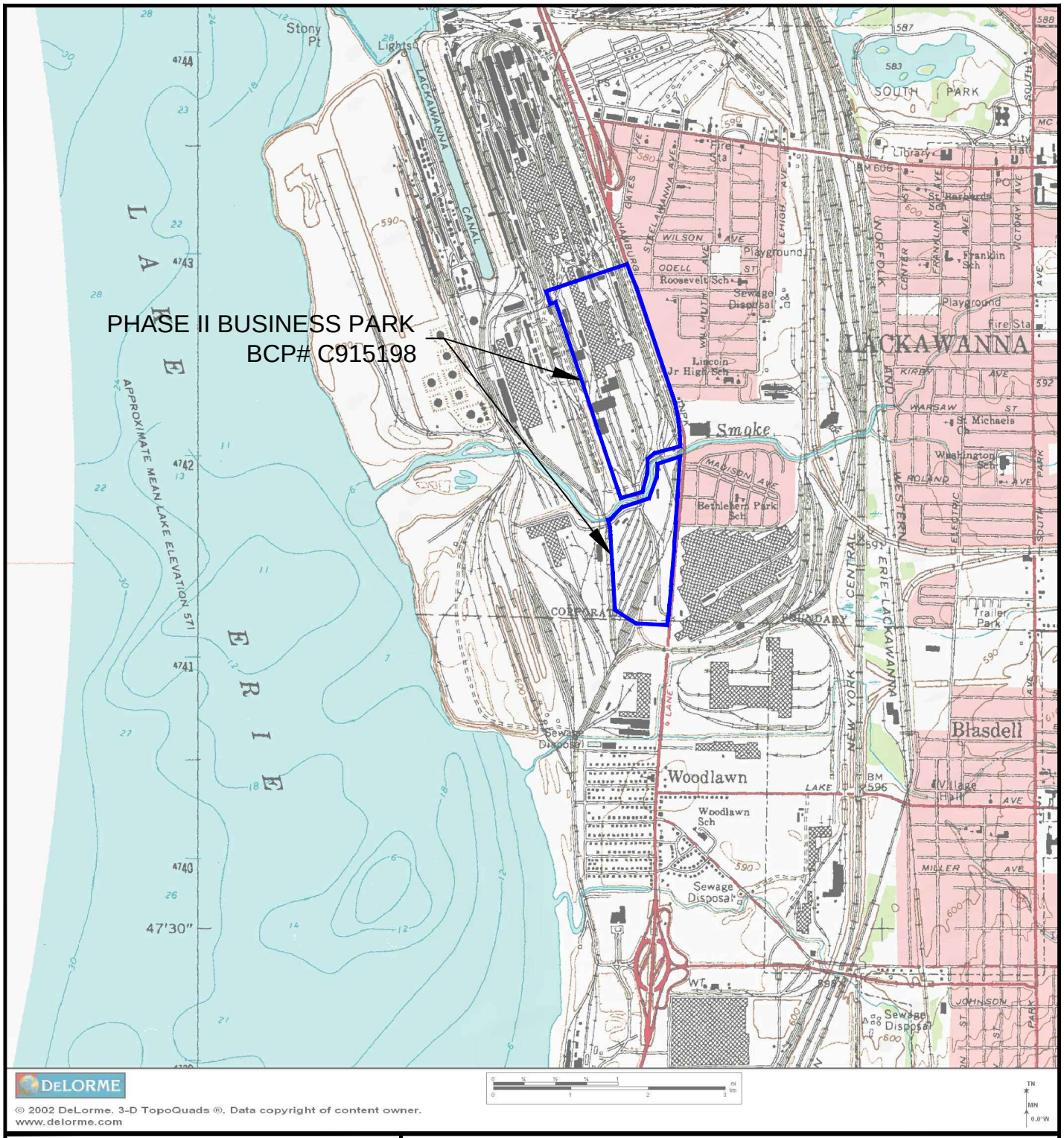
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold = exceeds Site specific SCOs

FIGURES

F:\CAD\TurnKey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Parcel\CCR\Figure 1; Site Location and Vicinity Map.dwg

FIGURE 1



TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

SITE LOCATION & VICINITY MAP

CONSTRUCTION COMPLETION REPORT

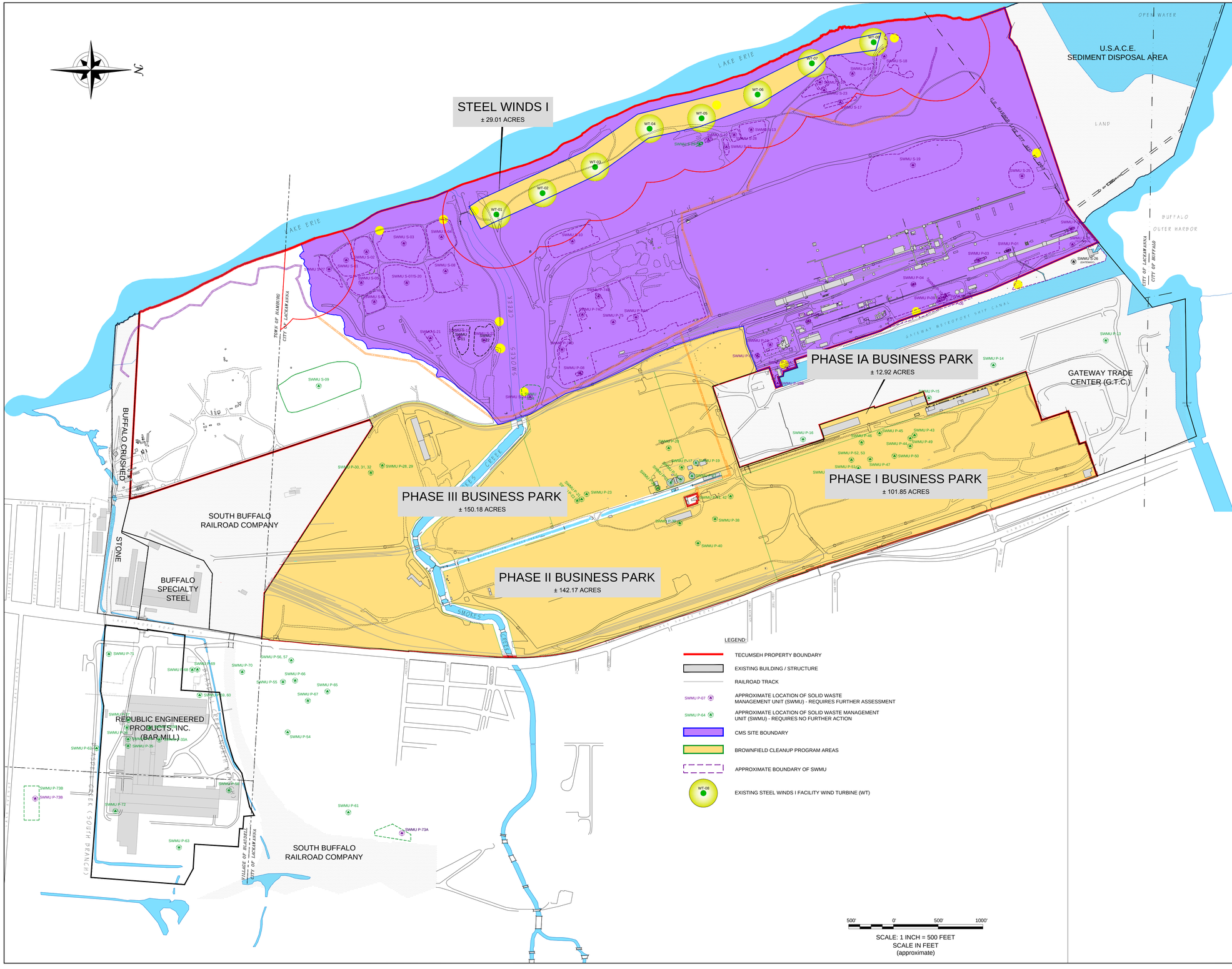
PHASE II BUSINESS PARK
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT INC.

PROJECT NO.:	0071-013-325
DATE:	OCTOBER 2013
DRAFTED BY:	BLR

F:\CAD\Turnkey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Permit\CCR\Figure 2- Site Plan.dwg



TURNKEY ENVIRONMENTAL RESTORATION, LLC
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JOB NO.: 0071-012-322

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: BLR
DATE: DECEMBER 2013
CHECKED BY:
APPROVED BY:

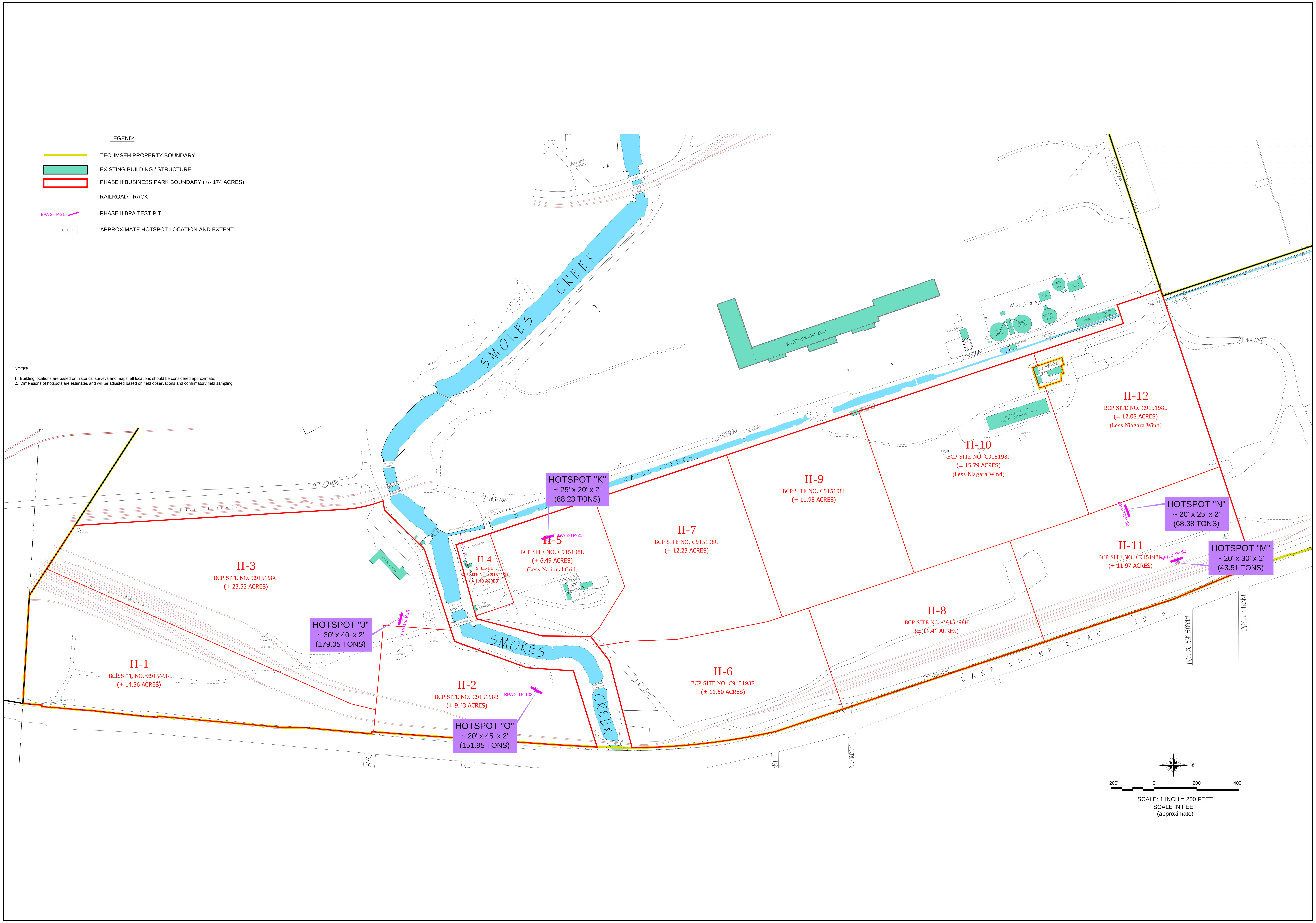
SITE PLAN

CONSTRUCTION COMPLETION REPORT

PHASE II BUSINESS PARK
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 2


LEGEND:
TECUMSEH PROPERTY BOUNDARY
EXISTING BUILDING / STRUCTURE
PHASE II BUSINESS PARK BOUNDARY (+/- 174 ACRES)
RAILROAD TRACK
BPA-2-TP-21
PHASE II BPA TEST PIT
APPROXIMATE HOTSPOT LOCATION AND EXTENT
NOTES:
1. Building locations are based on historical surveys and maps, all locations should be considered approximate.
2. Dimensions of hotspots are estimates and will be adjusted based on field observations and confirmatory field sampling.
SMOKES CREEK
SMOKES CREEK
WATER TRENCH
FULL OF TRACKS
LAKE SHORE ROAD - SR 5
HOLBROOK STREET
ODELL STREET
WOCS
II-1
BCP SITE NO. C915198
(± 14.36 ACRES)
II-2
BCP SITE NO. C915198B
(± 9.43 ACRES)
II-3
BCP SITE NO. C915198C
(± 23.53 ACRES)
II-4
S. LINDE
BCP SITE NO. C915198D
(± 1.40 ACRES)
II-5
BCP SITE NO. C915198E
(± 6.49 ACRES)
(Less National Grid)
II-6
BCP SITE NO. C915198F
(± 11.50 ACRES)
II-7
BCP SITE NO. C915198G
(± 12.23 ACRES)
II-8
BCP SITE NO. C915198H
(± 11.41 ACRES)
II-9
BCP SITE NO. C915198I
(± 11.98 ACRES)
II-10
BCP SITE NO. C915198J
(± 15.79 ACRES)
(Less Niagara Wind)
II-11
BCP SITE NO. C915198K
(± 11.97 ACRES)
II-12
BCP SITE NO. C915198L
(± 12.08 ACRES)
(Less Niagara Wind)
HOTSPOT "K"
~ 25' x 20' x 2'
(88.23 TONS)
HOTSPOT "N"
~ 20' x 25' x 2'
(68.38 TONS)
HOTSPOT "M"
~ 20' x 30' x 2'
(43.51 TONS)
HOTSPOT "J"
~ 30' x 40' x 2'
(179.05 TONS)
HOTSPOT "O"
~ 20' x 45' x 2'
(151.95 TONS)
BPA 2-TP-21
BPA 2-TP-52
BPA 2-TP-103
SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

TurnKey Environmental Restoration, LLC

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JOB NO.: 0071-013-325

REVISIONS

NO.	BY	DATE	REMARKS

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DRAWN BY: BLR
DATE: NOVEMBER 2013
CHECKED BY:
APPROVED BY:

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HOTSPOT EXCAVATION LIMITS & SAMPLE LOCATIONS

CONSTRUCTION COMPLETION REPORT

PHASE II BUSINESS PARK
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 3

APPENDIX A

PROJECT FIELD NOTES

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Sheet _____ of _____
Project No. _____
By SAP Date 5/31/13
Checked _____ Date _____
Subject _____

Tecumseh BP II + III Hot Spot Sampling

BP II

Hot Spot J: 11:05 - Sampled 2 spots 0-6" (~5' o.c. of exact coordinate each E to W)

K: 11:20 - Sampled 2 spots 0-6" (~5' o.c. of exact coordinate each N to S)

M: 11:40 - Sampled 2 spots 0-6" (~5' o.c. of exact coordinate each N to S)

N: 12:00 - Sampled 2 spots 0-6" (~5' o.c. exact coord each E to W)

D: 12:20 - Sampled 1 spots 0-6" (~10' o.c. exact coord. to the SE)

NOTE: Most of TP on building footprint - All concrete, brick, metal material except SE end of TP area

BP III:

Hot Spot A: 13:45 - Sampled 2 spots 0-6" (~5' o.c. exact coord. to N to S)

C: 14:10 - Sampled 3 spots 0-6" (center ~100' o.c exact coord to E and W a by ditch)

E: 14:55: Did not sample b/c under soil pile from TT

H: 15:00: Sampled 2 spots 0-6" (~5' o.c. exact coord E to W)

Location ______ Date ______
Project / Client ______

1500 - complete Hotspot "K"
Setup at Hotspot "N" Bus Park II.

1530 complete Hotspot "N"
Removal, Setup at Hotspot "M"

1530 - complete Excavation at Hotspot
1630 "M", and Back Fill w/
2 off Road "Rock" Dump Trucks of
2" Sub Slag - This location was Backfilled
Due to ~~location~~ close ~~prox~~ proximity of R.R. Track.

1630 - Off site

11/15/13 sunny ~72°F winds West/SW 20-25 mph
0730 - onsite, setup Air monitors
~~near~~ East of Hot spot "O" - Begin
~~of~~ Excavation of Hotspot "O" & Removing
concrete Debris from old Bldg
Foundations.

Location ______ Date ______
Project / Client ______

* 2 loads removed from "Hotspot" H.
In November

Hotspot "H" 12-2-13 - 4
Hotspot "C" 12-2-13 ~~IIII~~ IIII

0730 / 12-2-13
Hotspot Removal - Bus Park
III - Cloudy 38°F winds calm / FOG
LT Drizzle.
- 4 Tandem loads removed from
Hotspot "H" this morning. -
A total of 6 loads completes the
removal of Hotspot "H" soils.

- 0830 - 12:00 - Begin Removal of Hotspot "C"
Soils near Ditch along the
Electrical Storage Building.
Removed 8 tandem loads today

* No Air monitors setup due to
Dense Fog Aerosol / LT Drizzle

Location _____ Date _____

Project / Client _____

For welded Tube.

11/1/13 - Four tandem loads of Asphalt / TAR Impacted Soil/Fill was taken OFF Site to the Ellery LANDFILL; As part of the Soils Excavated For the Utility Line to Welded Tube along Highway 7. The material was staged along north side of ~~the~~ the "Blue Garage".

A TOTAL OF 8 loads were taken OFFsite. The remaining non Impacted Soil/ Fill was spread across Bus Park III, west & north of Blue Garage.

11/14/13 Hot Spot Removal Bus Park III (PT sunny 39°F west/sw winds 30-40 mph)

0730 - meet w/ Zanoz operator at Hotspot AREA "H", Contractor using An Excavator to Dig. Hotspot 9 CASE Stock pile.

Set up Air monitors EAST OF Hot spot "H";

Location _____ Date _____

Project / Client _____

0830 - complete Stockpiling OF Soils From Hot spot "H". - moving Excavator to Hotspot "C" - near Electrical Storage.

0845 - Begin Stock piling Soil/Fill from Ditch Behind Electrical Storage Bldg.

Complete Stockpiling Soils From Hotspot "H" at 17:00

11:00 - Begin excavation OF Hotspot "E".

12:00 - Break

12:45 - 1315 complete Excavation at Hotspot "H"

1330 - mobilize Excavator to Hotspot "J" in Bus park II.

1415 - complete Hotspot "J" - mobile to Hotspot "K"

Location _____ Date _____

Project / Client _____

12-3-13 Sunny 21°F winds calm
0730 loaded 2 trucks of soil/fill from Hotspot "C" this morning
only 2 trucks scheduled to haul today.

1045 - Hauled out 2 additional loads.
1307 Hauled out 2 additional loads

12-3-13
Hotspot "C" ~~1111~~

6 loads total on 12/3/13 from Hotspot "C"

Approx ___ loads

Location _____ Date _____

Project / Client _____

APPENDIX B

CAMP FIELD DATA SHEETS & AIR MONITORING DATA

COMMUNITY AIR MONITORING DAILY LOG

Date: 11-14-13
Project: Bus Park II Arsenic/Pb Hotspot Removal
Job No.:
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	1200 ~~A.M.~~ PM	1200 P.M.
Ambient Air Temp.:	39°F	40°F
Wind Direction:	W	W
Wind Speed:	10-25 mph	10-25 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Stockpiling excavated soils for off-site disposal

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 11/14/13
Checked By: Date:

nov 14 hot spot h

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 !   "
"Device no. ", 1
"Tag Number ", 53
"Start Time ", 08:40:01
"Start Date ", 14-Nov-2013
"Log Period ", 00:15:00
"Number   ", 2
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS   ", 8.457344
"Max MASS @ ", 1 ,08:55:01 ,14-Nov-2013
"Avg MASS   ", 6.615631
"Max Diam   ", 0.442423
"Max Diam @ ", 2 ,09:10:01 ,14-Nov-2013
"Avg Diam   ", 0.423143
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	8.5,	62.5,	26,	0.4039	,08:55:01	,14-Nov-2013
2,	4.8,	53.6,	29,	0.4424	,09:10:01	,14-Nov-2013

nov 14 hot spot c

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 ! "
"Device no. ", 1
"Tag Number ", 54
"Start Time ", 09:45:23
"Start Date ", 14-Nov-2013
"Log Period ", 00:15:00
"Number ", 17
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 15.149160
"Max MASS @ ", 12 ,12:45:23 ,14-Nov-2013
"Avg MASS ", 8.076149
"Max Diam ", 0.855347
"Max Diam @ ", 16 ,13:45:23 ,14-Nov-2013
"Avg Diam ", 0.611528
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.5,	46.6,	38,	0.5513	,10:00:23	,14-Nov-2013
2,	5.8,	44.3,	40,	0.5354	,10:15:23	,14-Nov-2013
3,	7.5,	43.2,	43,	0.6749	,10:30:23	,14-Nov-2013
4,	6.1,	42.8,	45,	0.5307	,10:45:23	,14-Nov-2013
5,	6.7,	42.9,	47,	0.5554	,11:00:23	,14-Nov-2013
6,	8.3,	43.3,	47,	0.6449	,11:15:23	,14-Nov-2013
7,	5.9,	43.8,	46,	0.4983	,11:30:23	,14-Nov-2013
8,	6.0,	44.5,	45,	0.4770	,11:45:23	,14-Nov-2013
9,	9.9,	45.3,	43,	0.7656	,12:00:23	,14-Nov-2013
10,	9.2,	46.1,	42,	0.7743	,12:15:23	,14-Nov-2013
11,	6.1,	46.7,	41,	0.4950	,12:30:23	,14-Nov-2013
12,	15.1,	47.4,	40,	0.7535	,12:45:23	,14-Nov-2013
13,	7.5,	47.8,	39,	0.6294	,13:00:23	,14-Nov-2013
14,	7.2,	48.5,	39,	0.5870	,13:15:23	,14-Nov-2013
15,	7.7,	49.2,	38,	0.5351	,13:30:23	,14-Nov-2013
16,	13.7,	49.7,	37,	0.8553	,13:45:23	,14-Nov-2013
17,	7.9,	50.4,	36,	0.5328	,14:00:23	,14-Nov-2013

nov 14 hot spot e

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 ! "
"Device no. ", 1
"Tag Number ", 55
"Start Time ", 14:19:03
"Start Date ", 14-Nov-2013
"Log Period ", 00:15:00
"Number ", 3
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.977510
"Max MASS @ ", 1 ,14:34:03 ,14-Nov-2013
"Avg MASS ", 4.781196
"Max Diam ", 0.405477
"Max Diam @ ", 3 ,15:04:03 ,14-Nov-2013
"Avg Diam ", 0.392754
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.0,	52.4,	35,	0.3918	,14:34:03	,14-Nov-2013
2,	4.3,	51.4,	36,	0.3810	,14:49:03	,14-Nov-2013
3,	4.1,	51.0,	38,	0.4055	,15:04:03	,14-Nov-2013

nov 14 hot spot a

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 ! "
"Device no. ", 1
"Tag Number ", 56
"Start Time ", 15:14:03
"Start Date ", 14-Nov-2013
"Log Period ", 00:15:00
"Number ", 1
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 3.896309
"Max MASS @ ", 1 ,15:29:03 ,14-Nov-2013
"Avg MASS ", 3.896309
"Max Diam ", 0.403041
"Max Diam @ ", 1 ,15:29:03 ,14-Nov-2013
"Avg Diam ", 0.403041
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter
1, 3.9, 52.2, 37, 0.4030 ,15:29:03 ,14-Nov-2013

nov 14 hot spot n

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 ! "
"Device no. ", 1
"Tag Number ", 57
"Start Time ", 16:20:38
"Start Date ", 14-Nov-2013
"Log Period ", 00:15:00
"Number ", 2
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 3.364574
"Max MASS @ ", 1 ,16:35:38 ,14-Nov-2013
"Avg MASS ", 3.152959
"Max Diam ", 0.442582
"Max Diam @ ", 1 ,16:35:38 ,14-Nov-2013
"Avg Diam ", 0.426452
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	3.4,	55.0,	34,	0.4426	,16:35:38	,14-Nov-2013
2,	2.9,	54.4,	31,	0.4103	,16:50:38	,14-Nov-2013

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 4
Site ID: PID 4 57
Serial Number: 012790
Data Points: 256
Gas Name: Isobutylene
Sample Period: 100 sec
Last Calibration Time: 11/11/2013 12:13
Start At: 11/14/2013 10:02
End At: 11/14/2013 17:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.3
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 4
Data Points: 24
Last Calibration Time: 11/11/2013 12:13

Site ID: PID 4 57
Gas Name: Isobutylene

Serial Number: 012790
Sample Period: 100 sec

Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

		Min (ppm)			Avg (ppm)			Max (ppm)		
Line#	Date Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	11/14/2013 08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	11/14/2013 08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	11/14/2013 09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	11/14/2013 09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	11/14/2013 09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	11/14/2013 09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	11/14/2013 09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	11/14/2013 09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	11/14/2013 09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	11/14/2013 09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	11/14/2013 09:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	11/14/2013 09:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	11/14/2013 09:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	11/14/2013 09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	11/14/2013 09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	11/14/2013 09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	11/14/2013 09:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	11/14/2013 09:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	11/14/2013 09:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	11/14/2013 09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	11/14/2013 09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	11/14/2013 09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	11/14/2013 09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	11/14/2013 09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 4
Site ID: PID 4 57
Serial Number: 012790
Data Points: 256
Gas Name: Isobutylene
Last Calibration Time: 11/11/2013 12:13
Sample Period: 100 sec

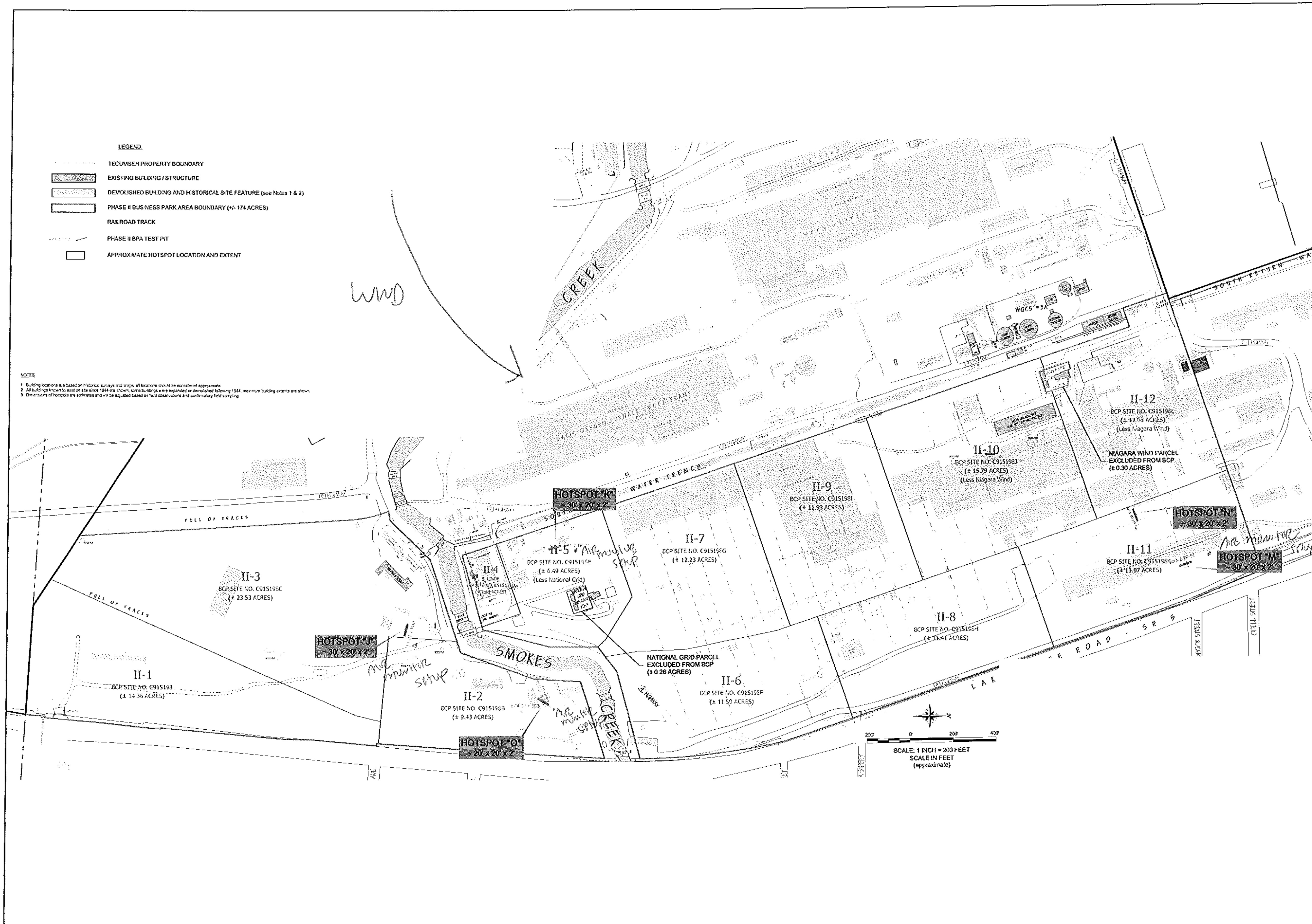
Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date	Time	Min (ppm)			Avg (ppm)			Max (ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	11/14/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	11/14/2013	10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	11/14/2013	10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	11/14/2013	10:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	11/14/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	11/14/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	11/14/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
8	11/14/2013	10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
9	11/14/2013	10:15	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
10	11/14/2013	10:17	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
11	11/14/2013	10:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
12	11/14/2013	10:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
13	11/14/2013	10:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
14	11/14/2013	10:23	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
15	11/14/2013	10:25	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
16	11/14/2013	10:27	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
17	11/14/2013	10:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
18	11/14/2013	10:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
19	11/14/2013	10:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
20	11/14/2013	10:33	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
21	11/14/2013	10:35	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
22	11/14/2013	10:37	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
23	11/14/2013	10:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
24	11/14/2013	10:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
25	11/14/2013	10:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
26	11/14/2013	10:43	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
27	11/14/2013	10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
28	11/14/2013	10:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
29	11/14/2013	10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
30	11/14/2013	10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
31	11/14/2013	10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
32	11/14/2013	10:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
33	11/14/2013	10:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
34	11/14/2013	10:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
35	11/14/2013	10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
36	11/14/2013	11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
37	11/14/2013	11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
38	11/14/2013	11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
39	11/14/2013	11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
40	11/14/2013	11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	11/14/2013	11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	11/14/2013	11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	11/14/2013	11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	11/14/2013	11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	11/14/2013	11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	11/14/2013	11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	11/14/2013	11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	11/14/2013	11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	11/14/2013	11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	11/14/2013	11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	11/14/2013	11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	11/14/2013	11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	11/14/2013	11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	11/14/2013	11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	11/14/2013	11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	11/14/2013	11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	11/14/2013 11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	11/14/2013 11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	11/14/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	11/14/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	11/14/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	11/14/2013 11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	11/14/2013 11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	11/14/2013 11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	11/14/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	11/14/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	11/14/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	11/14/2013 11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	11/14/2013 11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	11/14/2013 11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	11/14/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	11/14/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	11/14/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	11/14/2013 12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	11/14/2013 12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	11/14/2013 12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	11/14/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	11/14/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	11/14/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	11/14/2013 12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	11/14/2013 12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	11/14/2013 12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	11/14/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	11/14/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	11/14/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	11/14/2013 12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	11/14/2013 12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	11/14/2013 12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	11/14/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	11/14/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	11/14/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	11/14/2013 12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	11/14/2013 12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	11/14/2013 12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	11/14/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	11/14/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	11/14/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	11/14/2013 12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	11/14/2013 12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	11/14/2013 12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	11/14/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	11/14/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	11/14/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	11/14/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	11/14/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	11/14/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	11/14/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	11/14/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	11/14/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	11/14/2013 13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	11/14/2013 13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	11/14/2013 13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	11/14/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	11/14/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	11/14/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	11/14/2013 13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	11/14/2013 13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	11/14/2013 13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	11/14/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	11/14/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	11/14/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	11/14/2013 13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	11/14/2013 13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	11/14/2013 13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	11/14/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	11/14/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	11/14/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	11/14/2013 13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	11/14/2013 13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	11/14/2013 13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	11/14/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	11/14/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	11/14/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	11/14/2013 13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	11/14/2013 13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	11/14/2013 13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	11/14/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	11/14/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	11/14/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	11/14/2013 13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	11/14/2013 13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	11/14/2013 13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	11/14/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	11/14/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	11/14/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	11/14/2013 14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	11/14/2013 14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	11/14/2013 14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	11/14/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	11/14/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	11/14/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	11/14/2013 14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	11/14/2013 14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	11/14/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	11/14/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	11/14/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	11/14/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	11/14/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	11/14/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	11/14/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	11/14/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	11/14/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	11/14/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	11/14/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	11/14/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	11/14/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	11/14/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	11/14/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	11/14/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	11/14/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	11/14/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	11/14/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	11/14/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	11/14/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	11/14/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	11/14/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	11/14/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	11/14/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	11/14/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	11/14/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	11/14/2013 15:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	11/14/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	11/14/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	11/14/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	11/14/2013 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	11/14/2013 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	11/14/2013 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	11/14/2013 15:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	11/14/2013 15:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	11/14/2013 15:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	11/14/2013 15:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	11/14/2013 15:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	11/14/2013 15:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	11/14/2013 15:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	11/14/2013 15:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	11/14/2013 15:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	11/14/2013 15:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	11/14/2013 15:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	11/14/2013 15:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	11/14/2013 15:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	11/14/2013 15:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	11/14/2013 15:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	11/14/2013 15:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	11/14/2013 15:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	11/14/2013 15:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	11/14/2013 15:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	11/14/2013 15:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	11/14/2013 15:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	11/14/2013 15:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	11/14/2013 15:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	11/14/2013 15:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	11/14/2013 15:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	11/14/2013 15:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
214	11/14/2013 15:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	11/14/2013 15:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	11/14/2013 16:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	11/14/2013 16:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	11/14/2013 16:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	11/14/2013 16:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	11/14/2013 16:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	11/14/2013 16:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	11/14/2013 16:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	11/14/2013 16:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
224	11/14/2013 16:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
225	11/14/2013 16:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
226	11/14/2013 16:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
227	11/14/2013 16:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
228	11/14/2013 16:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
229	11/14/2013 16:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
230	11/14/2013 16:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
231	11/14/2013 16:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
232	11/14/2013 16:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
233	11/14/2013 16:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
234	11/14/2013 16:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
235	11/14/2013 16:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
236	11/14/2013 16:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
237	11/14/2013 16:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
238	11/14/2013 16:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
239	11/14/2013 16:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
240	11/14/2013 16:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
241	11/14/2013 16:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
242	11/14/2013 16:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
243	11/14/2013 16:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
244	11/14/2013 16:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
245	11/14/2013 16:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
246	11/14/2013 16:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
247	11/14/2013 16:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
248	11/14/2013 16:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
249	11/14/2013 16:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
250	11/14/2013 16:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
251	11/14/2013 16:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
252	11/14/2013 17:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
253	11/14/2013 17:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
254	11/14/2013 17:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
255	11/14/2013 17:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
256	11/14/2013 17:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0


LEGEND
TECUMSEH PROPERTY BOUNDARY
EXISTING BUILDING / STRUCTURE
DEMOLISHED BUILDING AND HISTORICAL SITE FEATURE (see Notes 1 & 2)
PHASE II BUSINESS PARK AREA BOUNDARY (+/- 174 ACRES)
RAILROAD TRACK
PHASE II BPA TEST PIT
APPROXIMATE HOTSPOT LOCATION AND EXTENT
NOTES
WIND
CREEK
SMOKES
CREEK
SOUTH WATER TRENCH
SOUTH RETURN WATER
LAKE ROAD - SR 5
BASIC OXYGEN FURNACE
II-1
BCP SITE NO. C915193
(± 14.36 ACRES)
II-2
BCP SITE NO. C915198B
(± 9.43 ACRES)
II-3
BCP SITE NO. C915198C
(± 23.53 ACRES)
II-4
II-5
BCP SITE NO. C915198E
(± 6.49 ACRES)
(Less National Grid)
II-6
BCP SITE NO. C915198F
(± 11.50 ACRES)
II-7
BCP SITE NO. C915198G
(± 12.23 ACRES)
II-8
BCP SITE NO. C915198H
(± 11.41 ACRES)
II-9
BCP SITE NO. C915198I
(± 11.98 ACRES)
II-10
BCP SITE NO. C915198J
(± 15.79 ACRES)
(Less Niagara Wind)
II-11
BCP SITE NO. C915198K
(± 11.97 ACRES)
II-12
BCP SITE NO. C915198L
(± 12.03 ACRES)
(Less Niagara Wind)
NIAGARA WIND PARCEL
EXCLUDED FROM BCP
(± 0.30 ACRES)
NATIONAL GRID PARCEL
EXCLUDED FROM BCP
(± 0.26 ACRES)
HOTSPOT "J"
~ 30' x 20' x 2'
HOTSPOT "K"
~ 30' x 20' x 2'
HOTSPOT "M"
~ 30' x 20' x 2'
HOTSPOT "N"
~ 30' x 20' x 2'
HOTSPOT "O"
~ 20' x 20' x 2'
Air monitor setup
Air monitor setup
Air monitor setup
Air monitor setup
Air monitor setup
SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

11/14/13

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-009-310

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: AJC
DATE:
CHECKED BY:
APPROVED BY:

PLANNED HOTSPOT EXCAVATION LIMITS

IRM WORK PLAN FOR SUB-PARCELS II-2, II-3, II-5 AND II-11
PHASE II BUSINESS PARK AREA
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 2

COMMUNITY AIR MONITORING DAILY LOG

Date: 11/15/13

Project: Bus Park II Arsenic/Pb Hotspot Removal

Job No.:

Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1200 P.M.
Ambient Air Temp.:	42°F	42°F
Wind Direction:	W/SW	W/SW
Wind Speed:	20-25 mph	
Precipitation:		

DESCRIPTION OF SITE ACTIVITIES: Stockpiling excavated soils for off-site disposal ~Hotspot #10

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RJD Date: 11/15/13

Checked By: Date:

nov 15 hot spot o

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D835 ! "
"Device no. ", 1
"Tag Number ", 58
"Start Time ", 08:32:21
"Start Date ", 15-Nov-2013
"Log Period ", 00:15:00
"Number ", 8
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 4.473594
"Max MASS @ ", 7 ,10:17:21 ,15-Nov-2013
"Avg MASS ", 3.846743
"Max Diam ", 0.521140
"Max Diam @ ", 7 ,10:17:21 ,15-Nov-2013
"Avg Diam ", 0.461393
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	4.1,	61.0,	25,	0.3705	,08:47:21	,15-Nov-2013
2,	3.3,	54.5,	23,	0.4109	,09:02:21	,15-Nov-2013
3,	3.6,	50.1,	25,	0.4820	,09:17:21	,15-Nov-2013
4,	3.7,	48.3,	28,	0.4852	,09:32:21	,15-Nov-2013
5,	3.7,	48.5,	29,	0.4705	,09:47:21	,15-Nov-2013
6,	3.9,	49.1,	30,	0.4827	,10:02:21	,15-Nov-2013
7,	4.5,	50.3,	30,	0.5211	,10:17:21	,15-Nov-2013
8,	3.9,	50.9,	29,	0.4682	,10:32:21	,15-Nov-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 012790
User ID: PID 4 Site ID: PID 4 57
Data Points: 79 Gas Name: Isobutylene Sample Period: 100 sec
Last Calibration Time: 11/11/2013 12:13
Start At: 11/15/2013 08:40 End At: 11/15/2013 10:50

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.2
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 4
Data Points: 79
Last Calibration Time: 11/11/2013 12:13

Site ID: PID 4 57
Gas Name: Isobutylene

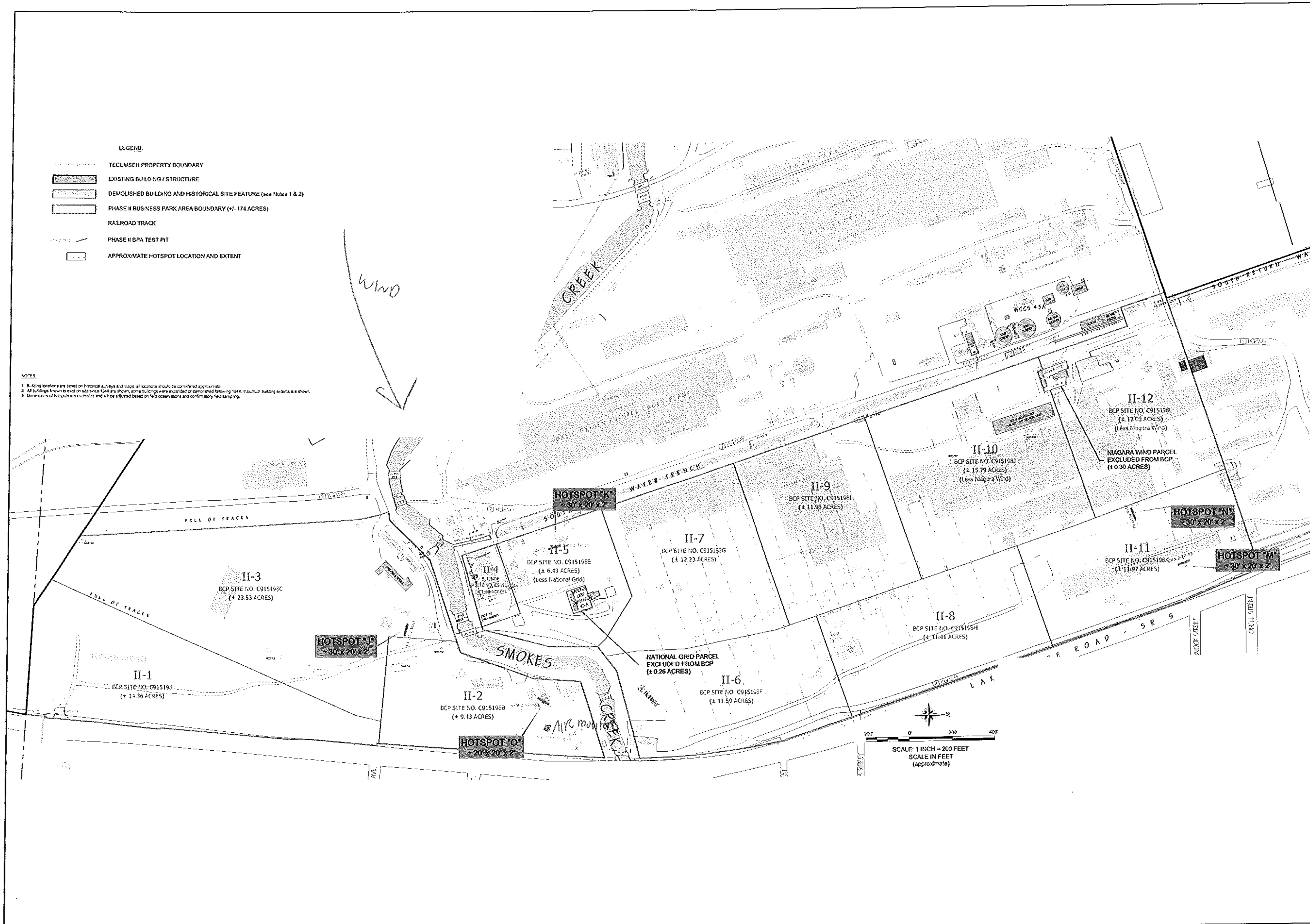
Serial Number: 012790
Sample Period: 100 sec

Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date	Time	Min (ppm)			Avg (ppm)			Max (ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	11/15/2013	08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	11/15/2013	08:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	11/15/2013	08:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	11/15/2013	08:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	11/15/2013	08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	11/15/2013	08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
7	11/15/2013	08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	11/15/2013	08:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	11/15/2013	08:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	11/15/2013	08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	11/15/2013	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	11/15/2013	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	11/15/2013	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	11/15/2013	09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	11/15/2013	09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	11/15/2013	09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	11/15/2013	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	11/15/2013	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	11/15/2013	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	11/15/2013	09:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	11/15/2013	09:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	11/15/2013	09:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	11/15/2013	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	11/15/2013	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	11/15/2013	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	11/15/2013	09:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	11/15/2013	09:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	11/15/2013	09:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	11/15/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	11/15/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	11/15/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	11/15/2013	09:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	11/15/2013	09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	11/15/2013	09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	11/15/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	11/15/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	11/15/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	11/15/2013	09:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	11/15/2013	09:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	11/15/2013	09:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	11/15/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	11/15/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	11/15/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	11/15/2013	09:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	11/15/2013	09:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	11/15/2013	09:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	11/15/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	11/15/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	11/15/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	11/15/2013	10:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	11/15/2013	10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	11/15/2013	10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	11/15/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	11/15/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	11/15/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	11/15/2013	10:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	11/15/2013 10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	11/15/2013 10:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	11/15/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	11/15/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	11/15/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	11/15/2013 10:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	11/15/2013 10:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	11/15/2013 10:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	11/15/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	11/15/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	11/15/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	11/15/2013 10:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	11/15/2013 10:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	11/15/2013 10:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	11/15/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	11/15/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	11/15/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	11/15/2013 10:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	11/15/2013 10:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	11/15/2013 10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	11/15/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	11/15/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	11/15/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

11/15/13


LEGEND:
TECUMSEH PROPERTY BOUNDARY
EXISTING BUILDING / STRUCTURE
DEMOLISHED BUILDING AND HISTORICAL SITE FEATURE (see Notes 1 & 2)
PHASE II BUSINESS PARK AREA BOUNDARY (+/- 174 ACRES)
RAILROAD TRACK
PHASE II BPA TEST PIT
APPROXIMATE HOTSPOT LOCATION AND EXTENT
WIND
CREEK
SMOKES
CREEK
SOUTH RETURN WATER TRENCH
BASIC OXYGEN FURNACE (BOF) PLANT
FULL OF TRACKS
LAKE ... ROAD - SR 5
HOTSPOT "K" ~ 30' x 20' x 2'
HOTSPOT "J" ~ 30' x 20' x 2'
HOTSPOT "O" ~ 20' x 20' x 2'
HOTSPOT "N" ~ 30' x 20' x 2'
HOTSPOT "M" ~ 30' x 20' x 2'
II-1 BCP SITE NO. C915198 (± 14.36 ACRES)
II-2 BCP SITE NO. C915198B (± 9.43 ACRES)
II-3 BCP SITE NO. C915198C (± 23.53 ACRES)
II-4
II-5 BCP SITE NO. C915198E (± 6.49 ACRES) (Less National Grid)
II-6 BCP SITE NO. C915198F (± 11.50 ACRES)
II-7 BCP SITE NO. C915198G (± 12.23 ACRES)
II-8
II-9 BCP SITE NO. C915198I (± 11.58 ACRES)
II-10 BCP SITE NO. C915198J (± 15.79 ACRES) (Less Niagara Wind)
II-11 BCP SITE NO. C915198K (± 11.97 ACRES)
II-12 BCP SITE NO. C915198L (± 12.03 ACRES) (Less Niagara Wind)
NATIONAL GRID PARCEL EXCLUDED FROM BCP (± 0.26 ACRES)
NIAGARA WIND PARCEL EXCLUDED FROM BCP (± 0.30 ACRES)
AIR monitor
SCALE: 1 INCH = 200 FEET
SCALE IN FEET (approximate)
REVISIONS
NO. BY DATE REMARKS

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-009-310

PLANNED HOTSPOT EXCAVATION LIMITS

IRM WORK PLAN FOR SUB-PARCELS II-2, II-3, II-5 AND II-11
PHASE II BUSINESS PARK AREA
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 2

APPENDIX C

DISPOSAL FACILITY APPROVALS

CHAUTAUQUA COUNTY DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

Gregory J. Edwards
County Executive

George P. Spanos, P.E.
Director of Public Facilities

July 16, 2013

Tecumseh Redevelopment Incorporated
c/o Turnkey Environmental Restoration
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

Attention: Thomas Forbes

Reference: Special Waste Stream – Soil
Permit: CC0715.13S1 [One Time Disposal Permit]
Facility: **Tecumseh Redevelopment Phase II Business Park**
1951 Hamburg Turnpike, Lackawanna, NY 14218
Expiration Date: 12/31/13

Dear Mr. Forbes:

This department has reviewed Tecumseh's application for disposal of 600 tons of soil and slag with elevated arsenic. It is our understanding the waste is generated from excavation at the above referenced site. Based upon this information, this waste is acceptable for disposal at our Chautauqua County Landfill (CCLF) up to and including the above referenced date.

We have enclosed a copy of the executed NYSDEC application for your records. A copy of this correspondence must be presented to our scale operator with **EACH LOAD** of material entering our facility. It should be noted that your waste transporter must have an approved hauling permit for transport to this facility. In the event significant changes in information presented on the above referenced application occur, you shall immediately notify this department in writing. Such changes shall include but not be limited to: change in process, change in facility name or address, change in waste composition, and/or change in hauler.

Thank you for choosing our facility for your disposal needs. If you have any questions, please contact me (telephone extension 203).

Sincerely,

T. Jay Pierce

Tracy Pierce, "TJ"
Solid Waste Analyst

Enclosure

cc: NYSDEC (Ltr, App. Frm); CCLF: Scale & A/R (Ltr); Permit-Generator Files (entire permit)

Office Use Only

Bill to: 486 **Generator:** Tecumseh Redevelopment **Hauler:** Zoladz [486]

Material: SOIL O **Origin:** Erie County, NY **Site:** 1951 Hamburg Turnpike, Lackawanna, NY 14218

I:\Everyone\SHARE\1 EMPLOYEE FLDRS\TJP\WASTE PERMITS\2013 Approval Ltrs\Special\Soil\TecumsehRedevelopment\CC0715.13S1 TecumsehRedevelopment Soil.doc

APPENDIX D

WASTE MANIFESTS

Z181

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 716 856-0599

4. **Waste Tracking Number**: Phase II Bus Park DI Spot

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, INC 2538 Hamburg Turnpike Lackawanna NY 14218

Generator's Site Address (if different than mailing address)

Generator's Phone: (716) 856-0599

6. Transporter 1 Company Name: Zoladz Construction Co. Truck #181 — U.S. EPA ID Number: 9A455

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua County Landfill Ellery NY — U.S. EPA ID Number:

Facility's Phone: (716) 985-4785

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. Non-Regulated soil/Fill 660715.1551	1	DT		
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Thomas A Behrendt As Agent for generator — Signature: [signature] — Month 12 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X CHARLIE SUGG — Signature: X Charlie Sugg — Month 12 Day 5 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		716-856-0599	[illegible] Pick Hotspot J

GENERATOR

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, Inc. 2555 Hamburg Turnpike Lackawanna NY 14218

Generator's Site Address (if different than mailing address):

Generator's Phone: (716) 856-0599

6. Transporter 1 Company Name: Zoladz Construction Co, Truck #174 — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua County Landfill, Ellery, NY — U.S. EPA ID Number:

Facility's Phone: (716) 985-4758

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Regulated Soil/Fill CC 0715-1331	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Thomas A Behrendt As Agent For Generator	[signature]	12	5	13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
X Julie Price	X Julie Price	12	5	13

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 716 856-0599

4. Waste Tracking Number: Phase II Bus Park HotSpot J

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, Inc. 2538 Hamburg Tpke Lackawanna NY 14218

Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Zoladz Construction Co, Truck #200

U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County LandFill Ellery NY

Facility's Phone: (716) 985-4758

U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Regulated Soil/Fill CC0715-1351	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Thomas A Behrendt As Agent For generator

Signature: [signature]

Month 12 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X [illegible]

Signature: [signature]

Month 12 Day 5 Year 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: (716) 856-0599

4. Waste Tracking Number: Phase I Bus Park Holsport J

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, Inc 2538 Hamburg Turnpike Lackawanna, NY

Generator's Site Address (if different than mailing address)

Generator's Phone: (716) 856-0599

6. Transporter 1 Company Name: Zoladz Construction Co, Truck # 148 — U.S. EPA ID Number: 9A449

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill, Ellery, NY — U.S. EPA ID Number

Facility's Phone: (716) 985-4758

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Regulated Soil/Fill CC 0715-1531	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Thomas Ablard, As Agent For Tecumseh — Signature — Month 12 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X — Signature: X — Month 12 Day 5 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Zulanz #147

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-856-0599	Phase II Bus PARK Hotspot J

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, INC 2538 Hamburg turnpike Lackawanna NY 14218

Generator's Site Address (if different than mailing address):

Generator's Phone: 716-856-0599

6. Transporter 1 Company Name: Zulanz Construction Co, Truck #147 — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua County Landfill Ellery NY (716) 985-4758 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Regulated soil/Fill 660715.1351	1	DT		
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Thomas A Behrendt As Agent For Generator — Signature: [signature] — Month 12 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: x Denny Fry — Signature: x Denny Fry — Month 12 Day 05 Year 13

Transporter 2 Printed/Typed Name: — Signature: — Month 12 Day 5 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone (716) 856-0599	**4. Waste Tracking Number** Phase II RP ... Spot J

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc.
2538 Hamburg Turnpike
Lackawanna, NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Zoladz Construction Co., Inc. Truck 151 — U.S. EPA ID Number: 94499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua County L.F.
Ellery, NY
Facility's Phone: (716) 985-4785
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-regulated soil/fill CCD715.1351	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Sean Fallon as agent for generator	[signature]	12	5	13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Transporter 1: X Charlie Sugg	[signature]	12	5	13
Transporter 2:				

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		(716) 856-0599	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.						
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

Z-181

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — Truck 181 — U.S. EPA ID Number — GA 469

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	Containers No.	Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.						
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

12/16 - Finished H.S. J (1 load)
- Finished H.S. O (7 loads)
- Finished H.S. K (4 loads)
*6 trucks, 2 runs, 12 LOADS TOTAL

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 16 Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHARLIE SUCH — Signature: Charlie Such — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-856-0599	Phase II BP [illegible] K

5. Generator's Name and Mailing Address [illegible]
Generator's Site Address (if different than mailing address)

Generator's Phone: 716-856-0599

6. Transporter 1 Company Name [illegible] Truck # 181 — U.S. EPA ID Number 9A-499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address [illegible] NY 14101 — U.S. EPA ID Number

Facility's Phone: [illegible] 4758

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Regulated [illegible] CC0715.1351	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	2	6	15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	CHARLIE SUGG	Charlie Sugg	2	6	15
Transporter 2					

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		716-856-0599	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Regulated Soil/Fill CC 0715-1351	1	DT			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 10 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 10 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		716-810-0599	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone: 716 995-4759

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Regulated Soil/Fill	1	ST			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.						
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

GENERATOR

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 — Day 9 — Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHARLIE SUGG — Signature — Month 12 — Day 9 — Year 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 716-856-0599

4. Waste Tracking Number: Phase II SP Hts, pt M

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, Inc. 2525 Hamburg Turnpike Lackawanna, NY 14218

Generator's Site Address (if different than mailing address)

Generator's Phone: 716-856-0599

6. Transporter 1 Company Name: Zoladz Construction Co. Truck # 242

U.S. EPA ID Number: 97A-499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill Ellery, NY 14701

U.S. EPA ID Number

Facility's Phone: 716-985-4758

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Regulated Soil/Fill CC075.1351	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Sean Fuller agent for generator

Signature: [signature]

Month 12 Day 9 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]

Signature: [signature]

Month 12 Day 9 Year 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

ZARDOUS MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-856-0599	

r's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 716-856-0599

4. Waste Tracking Number: Park Hotspot O

5. Generator's Name and Mailing Address: Tecumseh Redevelopment INC, 2503 Hamburg Turnpike Lackawanna NY 14218

Generator's Site Address (if different than mailing address)

Generator's Phone: 716-856-0599

6. Transporter 1 Company Name: Zeliotz Construction Co, truck 244 — U.S. EPA ID Number: 9A 499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill, Ellery, NY (716) 985-4758 — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Regulated Soil/Fill CC0715-1351	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Thomas A Bywalt As Agent For Generator — Signature — Month 12 Day 6 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Clarence Reiter — Signature: X — Month 12 Day 6 Year 13

Transporter 2 Printed/Typed Name: Clarence Reiter — Signature — Month 12 Day 6 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-856-0599	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone: 716-985-2758

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-regulated soil/fill CC07C-1351	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 2 — Day 6 — Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 — Day 6 — Year 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 716-[illegible]

4. Waste Tracking Number: [illegible]

5. Generator's Name and Mailing Address: Tecumseh Redevelopment, Inc. 2538 Hamburg Turnpike Lackawanna NY 14218

Generator's Phone: 716-880-0779

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Zeladz Construction, Co Truck# 147

U.S. EPA ID Number: 9A 499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua Co. L.F. Ellery, NY

Facility's Phone: 716-985-4758

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
	1. Non Regulated Fill [illegible] CC0715.1351	1	DT		
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Sean Fuller as agent for generator | Signature: [signature] | Month 12 Day 6 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Denny Frey | Signature: Denny Frey | Month 12 Day 6 Year 13

Transporter 2 Printed/Typed Name | Signature | Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-855-0559	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone: 716-985-4758

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Regulated Soil, N.O.S. CCC715.1351	1	DT			
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Dan Tuttle on behalf of the generator	Dan Tuttle	12	6	13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
X Art Lauterbach Glass		12	6	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 716-856-0599	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Tecumseh Redevelopment, Inc.
Lackawanna, NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — Zoladz Construction Co. Truck # 244 — U.S. EPA ID Number: 9A 499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Chautauqua Co. L.F.
Ellery, NY 14701
Facility's Phone: 716-985-4785

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Regulated Fill CC0715.1351	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
[illegible] as agent for generator	[signature]	12	6	15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	X Clarence Ruta	[signature]	12	6	15
Transporter 2					

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		716-856-0599	Phase I 3P Integrit…

5. Generator's Name and Mailing Address
Tecumseh Redevelopment, Inc.
2538 Hamburg Turnpike
Lackawanna, NY 14218
Generator's Phone: 716-856-0599

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Zoladz Construction Co. Truck # 181
U.S. EPA ID Number: 9A-499

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill, Ellery, NY 14701
U.S. EPA ID Number
Facility's Phone: 716-985-4758

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Regulated Soil/Fill CC 0715.1351	1	DT		
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Sean Fallon as agent for owner | Signature | Month 12 Day 6 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] | Signature | Month 12 Day 6 Year 13
Transporter 2 Printed/Typed Name | Signature | Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name | Signature | Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

169-BLC-O 5 11977 (Rev. 9/09)

APPENDIX E

SCALE RECEIPTS

5

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117057	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	08:56	08:56	ZC148	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 75380 LB
Stored Tare Wt. 27940 LB
Net Weight 47440 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
23.72	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MIKE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE _____

5

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

02	117031 : 9			KATE HILL 601425	
DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	15:08	15:08	ZC174	
REFERENCE		ORIGIN			
071513S2		ERIE COUNTY (NY)			

Scale 1 Gross Wt.	72380	LB
Stored Tare Wt.	28440	LB
Net Weight	43940	LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.97	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver JULIE
Generator TECUMSEH PHASE III
LACKAWANNA, NY 14218

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

J

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

CTL	TICKET		SCALE
02	116996	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	12:22	12:22	ZC174	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt. 73980 LB
Stored Tare Wt. 28440 LB
Net Weight 45540 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.77	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver JULIE
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE _____

J

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117006	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	12:55	12:55	ZC244	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt. 74480 LB
Stored Tare Wt. 29080 LB
Net Weight 45400 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.70	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver DOUG
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

02	117019	9		KATE HILL 601425	

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	13:53	13:53	ZC148	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt. 70660 LB
Stored Tare Wt. 27940 LB
Net Weight 42720 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.36	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MIKE
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

5

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	DRV	
02	117023	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	14:35	14:35	ZC147	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt.	70260	LB
Stored Tare Wt.	27720	LB
Net Weight	42540	LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.27	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver DENNIS
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

 SIGNATURE

J

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	UNIT	
02	116995	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	12:16	12:16	ZC181	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt.	73380	LB
Stored Tare Wt.	27440	LB
Net Weight	45940	LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.97	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

 SIGNATURE

5

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown. New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117030	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/05/13	12/05/13	15:07	15:07	ZC181	

REFERENCE	ORIGIN
071513S2	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72020 LB
Stored Tare Wt. 27440 LB
Net Weight 44580 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.29	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE III
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

K

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117067	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	09:30	09:30	ZC171	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 73220 LB
Stored Tare Wt. 28080 LB
Net Weight 45140 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.57	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver ART
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

K

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117058	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	08:57	08:57	ZC242	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72880 LB
Stored Tare Wt. 29260 LB
Net Weight 43620 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.81	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MICHELLE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

K

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SPLT	TICKET		
02	117056	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	08:55	08:55	ZC181	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt.	70400	LB
Stored Tare Wt.	27440	LB
Net Weight	42960	LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.48	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

K

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117064	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	09:16	09:16	ZC147	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72460 LB
Stored Tare Wt. 27720 LB
Net Weight 44740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.37	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver DENNIS
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULING

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WW6TI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE _____

m

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	SEQ	
02	117232	9	DAVE FERRUGIA

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/09/13	12/09/13	12:32	12:32	ZC181	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 71680 LB
Stored Tare Wt. 27440 LB
Net Weight 44240 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.12	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

m

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117234	9	DAVE FERRUGIA

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/09/13	12/09/13	12:37	12:37	ZC242	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72040 LB
Stored Tare Wt. 29260 LB
Net Weight 42780 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.39	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MICHELLE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117182	9	DAVE FERRUGIA

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/09/13	12/09/13	09:34	09:34	ZC181	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 73520 LB
Stored Tare Wt. 27440 LB
Net Weight 46080 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
23.04	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WWGTI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117187	9	DAVE FERRUGIA

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/09/13	12/09/13	09:47	09:47	ZC242	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 74160 LB
Stored Tare Wt. 29260 LB
Net Weight 44900 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.45	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MICHELLE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET		
02	117186	9	DAVE FERRUGIA

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/09/13	12/09/13	09:43	09:43	ZC171	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 73860 LB
Stored Tare Wt. 28080 LB
Net Weight 45780 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.89	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver ART
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WW6TI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE _____

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CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	DRIVER	ACCOUNT
02	117101	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	11:52	11:52	ZC181	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72600 LB
Stored Tare Wt. 27440 LB
Net Weight 45160 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.58	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CHARLIE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

0

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	CARRY	
02	117055	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	08:53	08:53	ZC244	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 73160 LB
Stored Tare Wt. 29080 LB
Net Weight 44080 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.04	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CLARENCE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WWSTI TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	CARD	
02	117099	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	11:49	11:49	ZC244	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72820 LB
Stored Tare Wt. 29080 LB
Net Weight 43740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.87	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver CLARENCE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULING

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

0

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

GATE	TICKET	BIN	VALIDATION
02	117120	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	12:55	12:55	ZC171	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 71820 LB
Stored Tare Wt. 28080 LB
Net Weight 43740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.87	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver ART
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULER

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

0

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	COPY	
02	117104	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	12:05	12:05	ZC242	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72120 LB
Stored Tare Wt. 29260 LB
Net Weight 42860 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.43	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MICHELE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

0

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117117	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	12:46	12:46	ZC147	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 68840 LB
Stored Tare Wt. 27720 LB
Net Weight 41120 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
20.56	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver DENNIS
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	117100	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
12/06/13	12/06/13	11:51	11:51	ZC148	

REFERENCE	ORIGIN
071513S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 71140 LB
Stored Tare Wt. 27940 LB
Net Weight 43200 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
21.60	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver MIKE
Generator TECUMSEH PHASE II
Comment LACKAWANNA, NY 14218
Hauler: INDEPENDENT HAULED

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

APPENDIX F

ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L1309890
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	PH II & III BP HOT SPOT
Project Number:	0071-013-325
Report Date:	06/07/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325

Lab Number: L1309890
Report Date: 06/07/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1309890-01	BUSINESS PARK II COMPOSITE	TECUMSEH-PH II & III BP HOT	05/31/13 12:00
L1309890-02	BUSINESS PARK III COMPOSITE	TECUMSEH-PH II & III BP HOT	05/31/13 15:00

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325
Lab Number: L1309890
Report Date: 06/07/13

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	PH II & III BP HOT SPOT	**Lab Number:**	L1309890
Project Number:	0071-013-325	**Report Date:**	06/07/13

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.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 06/07/13

METALS

Project Name: PH II & III BP HOT SPOT
Lab Number: L1309890
Project Number: 0071-013-325
Report Date: 06/07/13

SAMPLE RESULTS

Lab ID: L1309890-01
Client ID: BUSINESS PARK II COMPOSITE
Sample Location: TECUMSEH-PH II & III BP HOT
Matrix: Soil
Date Collected: 05/31/13 12:00
Date Received: 05/31/13
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/03/13 15:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Barium, TCLP	0.40	J	mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Lead, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/05/13 09:44	06/05/13 15:54	EPA 7470A	1,7470A	JH
Selenium, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG
Silver, TCLP	ND		mg/l	0.10	0.02	1	06/04/13 09:20	06/06/13 21:20	EPA 3015	1,6010C	MG

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325
Lab Number: L1309890
Report Date: 06/07/13

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 - Westborough Lab for sample(s): 01-02 Batch: WG612402-1										
Arsenic, TCLP	0.04	J	mg/l	1.0	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Barium, TCLP	0.07	J	mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Chromium, TCLP	ND		mg/l	0.20	0.02	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Lead, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Selenium, TCLP	ND		mg/l	0.50	0.03	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG
Silver, TCLP	ND		mg/l	0.10	0.02	1	06/04/13 09:20	06/06/13 09:54	1,6010C	MG

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/03/13 15:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG612531-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/05/13 09:44	06/05/13 15:43	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/03/13 15:15

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II & III BP HOT SPOT

Project Number: 0071-013-325

Lab Number: L1309890

Report Date: 06/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG612402-2								
Arsenic, TCLP	100		-		75-125	-		20
Barium, TCLP	100		-		75-125	-		20
Cadmium, TCLP	102		-		75-125	-		20
Chromium, TCLP	95		-		75-125	-		20
Lead, TCLP	102		-		75-125	-		20
Selenium, TCLP	100		-		75-125	-		20
Silver, TCLP	94		-		75-125	-		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG612531-2								
Mercury, TCLP	102		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325

Lab Number: L1309890
Report Date: 06/07/13

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 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG612402-4 QC Sample: L1309764-27 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.2	100		-	-		75-125	-		20
Barium, TCLP	0.12J	20	20	100		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.51	100		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.9	95		-	-		75-125	-		20
Lead, TCLP	0.14J	5.1	5.3	104		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.2	100		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.48	96		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG612531-4 QC Sample: L1309896-02 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0248	99		-	-		70-130	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325

Lab Number: L1309890
Report Date: 06/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG612402-3 QC Sample: L1309764-27 Client ID: DUP Sample						
Lead, TCLP	0.14J	0.15J	mg/l	NC		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG612531-3 QC Sample: L1309896-02 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: PH II & III BP HOT SPOT
Project Number: 0071-013-325

Lab Number: L1309890
Report Date: 06/07/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1309890-01A	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1309890-01X	Plastic 250ml HNO3 preserved spl	A	<2	2.8	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)
L1309890-02A	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	-
L1309890-02X	Plastic 250ml HNO3 preserved spl	A	<2	2.8	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)

*Values in parentheses indicate holding time in days

Project Name:	PH II & III BP HOT SPOT	**Lab Number:**	L1309890
Project Number:	0071-013-325	**Report Date:**	06/07/13

GLOSSARY

Acronyms

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).

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.

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.

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.

NI - Not Ignitable.

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.

Footnotes

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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 five times (5x) 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.

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 RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers

Project Name:	PH II & III BP HOT SPOT	**Lab Number:**	L1309890
Project Number:	0071-013-325	**Report Date:**	06/07/13

Data Qualifiers

due to obvious interference.

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

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 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.

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).

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

Report Format: DU Report with "J" Qualifiers

Project Name:	PH II & III BP HOT SPOT	**Lab Number:**	L1309890
Project Number:	0071-013-325	**Report Date:**	06/07/13

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.

Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertOT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE_____ OF_____

Serial No:06071313:27

Date Rec'd in Lab: 6/1/13

ALPHA Job #: L1309890

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Turnkey

Address: 2558 Hamburg Turnpike Suite 300

Phone: (716) 856-0599

Fax:

Email: tforbes@benchmarkturnkey.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PH II & III BP Hot Spot Ion

Project Location: Tecumseh-PH II & III BP's

Project #: 0071-013-325

Project Manager: Tom Forbes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 6/7/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TCLP (RCRA) Metals	SAMPLE HANDLING	TOTAL # BOTTLES
09890.01	Business Park II Composite	5-31-13	12:00	Soil	SPF	1		
.02	Business Park III Composite	5-31-13	15:00	Soil	SPF	1		

SAMPLE HANDLING

Filtration_____

☐ Done

☒ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
	5-31-13 16:05		5-31-13 1655
	5-31-13 1950		5-31-13 1950
	5/31/13 2314		5/31/13 2314
	6/1/13 00:20		6/1/13 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1315442
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number:	Not Specified
Report Date:	08/15/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1315442-01	HOTSPOT A-N	TECUMSEH BPAII + BPAIII	08/01/13 10:45
L1315442-02	HOTSPOT A-S	TECUMSEH BPAII + BPAIII	08/01/13 10:48
L1315442-03	HOTSPOT A-E	TECUMSEH BPAII + BPAIII	08/01/13 10:50
L1315442-04	HOTSPOT A-W	TECUMSEH BPAII + BPAIII	08/01/13 10:53
L1315442-05	HOTSPOT A-F(2.5')	TECUMSEH BPAII + BPAIII	08/01/13 10:55
L1315442-06	HOTSPOT E-10N	TECUMSEH BPAII + BPAIII	08/01/13 11:45
L1315442-07	HOTSPOT E-10E	TECUMSEH BPAII + BPAIII	08/01/13 11:48
L1315442-08	HOTSPOT E-10S	TECUMSEH BPAII + BPAIII	08/01/13 11:50
L1315442-09	HOTSPOT E-25W	TECUMSEH BPAII + BPAIII	08/01/13 11:53
L1315442-10	HOTSPOT E-F(2')	TECUMSEH BPAII + BPAIII	08/01/13 11:55
L1315442-11	HOTSPOT H-10E	TECUMSEH BPAII + BPAIII	08/01/13 09:20
L1315442-12	HOTSPOT H-10N	TECUMSEH BPAII + BPAIII	08/01/13 09:15
L1315442-13	HOTSPOT H-10W	TECUMSEH BPAII + BPAIII	08/01/13 09:23
L1315442-14	HOTSPOT H-10S	TECUMSEH BPAII + BPAIII	08/01/13 09:25
L1315442-15	HOTSPOT H-F(2')	TECUMSEH BPAII + BPAIII	08/01/13 09:30
L1315442-16	HOTSPOT J-10N	TECUMSEH BPAII + BPAIII	08/01/13 13:20
L1315442-17	HOTSPOT J-20W	TECUMSEH BPAII + BPAIII	08/01/13 13:23
L1315442-18	HOTSPOT J-10S	TECUMSEH BPAII + BPAIII	08/01/13 13:25
L1315442-19	HOTSPOT J-10E	TECUMSEH BPAII + BPAIII	08/01/13 13:28
L1315442-20	HOTSPOT J-F(2')	TECUMSEH BPAII + BPAIII	08/01/13 13:30
L1315442-21	HOTSPOT K-10N	TECUMSEH BPAII + BPAIII	08/01/13 14:30
L1315442-22	HOTSPOT K-15E	TECUMSEH BPAII + BPAIII	08/01/13 14:33
L1315442-23	HOTSPOT K-10S	TECUMSEH BPAII + BPAIII	08/01/13 14:35
L1315442-24	HOTSPOT K-10W	TECUMSEH BPAII + BPAIII	08/01/13 14:38
L1315442-25	HOTSPOT K-F(2')	TECUMSEH BPAII + BPAIII	08/01/13 14:40
L1315442-26	HOTSPOT N-10N	TECUMSEH BPAII + BPAIII	08/02/13 14:50
L1315442-27	HOTSPOT N-10W	TECUMSEH BPAII + BPAIII	08/02/13 14:53
L1315442-28	HOTSPOT N-15S	TECUMSEH BPAII + BPAIII	08/02/13 14:55
L1315442-29	HOTSPOT N-10E	TECUMSEH BPAII + BPAIII	08/02/13 14:58
L1315442-30	HOTSPOT N-F(2')	TECUMSEH BPAII + BPAIII	08/02/13 15:00
L1315442-31	HOTSPOT O-10E	TECUMSEH BPAII + BPAIII	08/02/13 14:15

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1315442-32	HOTSPOT O-10W	TECUMSEH BPAII + BPAIII	08/02/13 14:18
L1315442-33	HOTSPOT O-20S	TECUMSEH BPAII + BPAIII	08/02/13 14:20
L1315442-34	HOTSPOT O-10N	TECUMSEH BPAII + BPAIII	08/02/13 14:22
L1315442-35	HOTSPOT O-F(2')	TECUMSEH BPAII + BPAIII	08/02/13 14:25
L1315442-36	HOTSPOT C-100E	TECUMSEH BPAII + BPAIII	08/01/13 09:45
L1315442-37	HOTSPOT C-0	TECUMSEH BPAII + BPAIII	08/01/13 09:55
L1315442-38	HOTSPOT C-100W	TECUMSEH BPAII + BPAIII	08/01/13 10:35
L1315442-39	HOTSPOT C-200W	TECUMSEH BPAII + BPAIII	08/01/13 10:40
L1315442-40	HOTSPOT M-10E	TECUMSEH BPAII + BPAIII	08/08/13 00:00
L1315442-41	HOTSPOT M-10S	TECUMSEH BPAII + BPAIII	08/08/13 00:00
L1315442-42	HOTSPOT M-10W	TECUMSEH BPAII + BPAIII	08/08/13 00:00
L1315442-43	HOTSPOT M-10N	TECUMSEH BPAII + BPAIII	08/08/13 00:00
L1315442-44	HOTSPOT M-F(2')	TECUMSEH BPAII + BPAIII	08/08/13 00:00

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1315442
Project Number:	Not Specified	**Report Date:**	08/15/13

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1315442
Project Number:	Not Specified	**Report Date:**	08/15/13

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.

Metals

The WG628858-4 MS recovery, performed on L1315442-01, is above the acceptance criteria for lead (397%). A post digestion spike was performed with an acceptable recovery of 85%.

The WG628889-4 MS recovery, performed on L1315442-21, is above the acceptance criteria for arsenic (327%). A post digestion spike was performed with an unacceptable recovery of 70%. This has been attributed to sample matrix.

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:  Cynthia McQueen

Title: Technical Director/Representative Date: 08/15/13

METALS

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-16 Date Collected: 08/01/13 13:20

Client ID: HOTSPOT J-10N Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	47		mg/kg	0.44	0.09	1	08/14/13 10:13	08/14/13 17:20	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-17 Date Collected: 08/01/13 13:23

Client ID: HOTSPOT J-20W Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	90		mg/kg	1.7	0.34	4	08/14/13 10:13	08/14/13 22:00	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-19 Date Collected: 08/01/13 13:28

Client ID: HOTSPOT J-10E Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	60		mg/kg	0.44	0.09	1	08/14/13 10:13	08/14/13 17:38	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-20 Date Collected: 08/01/13 13:30

Client ID: HOTSPOT J-F(2') Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	91		mg/kg	1.8	0.36	4	08/14/13 10:13	08/14/13 22:08	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-21 Date Collected: 08/01/13 14:30

Client ID: HOTSPOT K-10N Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	28		mg/kg	0.41	0.08	1	08/14/13 11:33	08/14/13 18:45	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-22 Date Collected: 08/01/13 14:33

Client ID: HOTSPOT K-15E Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	68		mg/kg	0.41	0.08	1	08/14/13 11:33	08/14/13 19:11	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-23 Date Collected: 08/01/13 14:35

Client ID: HOTSPOT K-10S Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	94		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:15	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-24 Date Collected: 08/01/13 14:38

Client ID: HOTSPOT K-10W Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	59		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:19	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-25 Date Collected: 08/01/13 14:40

Client ID: HOTSPOT K-F(2') Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	51		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:22	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-26 Date Collected: 08/02/13 14:50

Client ID: HOTSPOT N-10N Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	100		mg/kg	4.3	0.86	10	08/14/13 11:33	08/15/13 12:49	EPA 3050B	1,6010C	KL
Lead, Total	390		mg/kg	21	0.86	10	08/14/13 11:33	08/15/13 12:49	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-27 Date Collected: 08/02/13 14:53

Client ID: HOTSPOT N-10W Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	51		mg/kg	0.89	0.18	2	08/14/13 11:33	08/14/13 19:29	EPA 3050B	1,6010C	KL
Lead, Total	520		mg/kg	4.4	0.18	2	08/14/13 11:33	08/14/13 19:29	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-28 Date Collected: 08/02/13 14:55

Client ID: HOTSPOT N-15S Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	51		mg/kg	0.90	0.18	2	08/14/13 11:33	08/14/13 19:33	EPA 3050B	1,6010C	KL
Lead, Total	280		mg/kg	4.5	0.18	2	08/14/13 11:33	08/14/13 19:33	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-29 Date Collected: 08/02/13 14:58

Client ID: HOTSPOT N-10E Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	46		mg/kg	0.88	0.18	2	08/14/13 11:33	08/14/13 19:36	EPA 3050B	1,6010C	KL
Lead, Total	230		mg/kg	4.4	0.18	2	08/14/13 11:33	08/14/13 19:36	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-30 Date Collected: 08/02/13 15:00

Client ID: HOTSPOT N-F(2') Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	63		mg/kg	0.95	0.19	2	08/14/13 11:33	08/14/13 19:40	EPA 3050B	1,6010C	KL
Lead, Total	160		mg/kg	4.7	0.19	2	08/14/13 11:33	08/14/13 19:40	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-31 Date Collected: 08/02/13 14:15

Client ID: HOTSPOT O-10E Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	87		mg/kg	0.90	0.18	2	08/14/13 11:33	08/14/13 19:51	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-32 Date Collected: 08/02/13 14:18

Client ID: HOTSPOT O-10W Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	14		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 19:54	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-34 Date Collected: 08/02/13 14:22

Client ID: HOTSPOT O-10N Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.7		mg/kg	0.86	0.17	2	08/14/13 11:33	08/14/13 20:01	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-35 Date Collected: 08/02/13 14:25

Client ID: HOTSPOT O-F(2') Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	19		mg/kg	0.91	0.18	2	08/14/13 11:33	08/14/13 20:05	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-40 Date Collected: 08/08/13 00:00

Client ID: HOTSPOT M-10E Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	86		mg/kg	4.5	0.90	10	08/14/13 11:33	08/15/13 12:59	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-42 Date Collected: 08/08/13 00:00

Client ID: HOTSPOT M-10W Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	63		mg/kg	0.46	0.09	1	08/14/13 15:45	08/15/13 13:30	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-43 Date Collected: 08/08/13 00:00

Client ID: HOTSPOT M-10N Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	42		mg/kg	0.43	0.09	1	08/14/13 15:45	08/15/13 13:33	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-44 Date Collected: 08/08/13 00:00

Client ID: HOTSPOT M-F(2') Date Received: 08/08/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	42		mg/kg	0.49	0.10	1	08/14/13 15:45	08/15/13 13:37	EPA 3050B	1,6010C	KL

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1315442

Project Number: Not Specified **Report Date:** 08/15/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG628858-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/14/13 10:13	08/14/13 15:36	1,6010C	KL
Lead, Total	ND		mg/kg	2.0	0.08	1	08/14/13 10:13	08/14/13 15:36	1,6010C	KL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 21-40 Batch: WG628889-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/14/13 11:33	08/14/13 18:38	1,6010C	KL
Lead, Total	ND		mg/kg	2.0	0.08	1	08/14/13 11:33	08/14/13 18:38	1,6010C	KL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 41-44 Batch: WG628998-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/14/13 15:45	08/15/13 11:46	1,6010C	KL

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: Not Specified

Lab Number: L1315442

Report Date: 08/15/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG628858-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	94		-		81-119	-		
Lead, Total	98		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 21-40 Batch: WG628889-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	94		-		81-119	-		
Lead, Total	94		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 41-44 Batch: WG628998-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	100		-		81-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG628858-4 QC Sample: L1315442-01 Client ID: HOTSPOT A-N												
Arsenic, Total	37.	10.6	42	**47**	Q	-	-		75-125	-		35
Lead, Total	140	45.3	320	**397**	Q	-	-		75-125	-		35
Total Metals - Westborough Lab Associated sample(s): 21-40 QC Batch ID: WG628889-4 QC Sample: L1315442-21 Client ID: HOTSPOT K-10N												
Arsenic, Total	28.	9.79	60	**327**	Q	-	-		75-125	-		35
Lead, Total	200	41.6	330	**312**	Q	-	-		75-125	-		35
Total Metals - Westborough Lab Associated sample(s): 41-44 QC Batch ID: WG628998-4 QC Sample: L1315342-32 Client ID: MS Sample												
Arsenic, Total	3.5	10.3	13	92		-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG628858-3 QC Sample: L1315442-01 Client ID: HOTSPOT A-N						
Lead, Total	140	150	mg/kg	7		35
Total Metals - Westborough Lab Associated sample(s): 21-40 QC Batch ID: WG628889-3 QC Sample: L1315442-21 Client ID: HOTSPOT K-10N						
Arsenic, Total	28.	31	mg/kg	10		35
Total Metals - Westborough Lab Associated sample(s): 41-44 QC Batch ID: WG628998-3 QC Sample: L1315342-32 Client ID: DUP Sample						
Arsenic, Total	3.5	3.8	mg/kg	8		35

INORGANICS
&
MISCELLANEOUS

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-16
Client ID: HOTSPOT J-10N
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/01/13 13:20
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-17
Client ID: HOTSPOT J-20W
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/01/13 13:23
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-19
Client ID: HOTSPOT J-10E
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/01/13 13:28
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Lab Number: L1315442
Project Number: Not Specified
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-20
Client ID: HOTSPOT J-F(2')
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/01/13 13:30
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/10/13 03:27	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-21
Client ID: HOTSPOT K-10N
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/01/13 14:30
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-22
Client ID: HOTSPOT K-15E
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/01/13 14:33
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-23
Client ID: HOTSPOT K-10S
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/01/13 14:35
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-24
Client ID: HOTSPOT K-10W
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/01/13 14:38
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Lab Number: L1315442
Project Number: Not Specified
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-25
Client ID: HOTSPOT K-F(2')
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/01/13 14:40
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-26
Client ID: HOTSPOT N-10N
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/02/13 14:50
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-27
Client ID: HOTSPOT N-10W
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/02/13 14:53
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-28
Client ID: HOTSPOT N-15S
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/02/13 14:55
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-29
Client ID: HOTSPOT N-10E
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/02/13 14:58
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-30
Client ID: HOTSPOT N-F(2')
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/02/13 15:00
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-31
Client ID: HOTSPOT O-10E
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/02/13 14:15
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-32
Client ID: HOTSPOT O-10W
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/02/13 14:18
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-34
Client ID: HOTSPOT O-10N
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/02/13 14:22
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-35
Client ID: HOTSPOT O-F(2')
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/02/13 14:25
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified
Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-40
Client ID: HOTSPOT M-10E
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil
Date Collected: 08/08/13 00:00
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	08/10/13 03:43	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-42
Client ID: HOTSPOT M-10W
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/08/13 00:00
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	08/10/13 03:08	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-43
Client ID: HOTSPOT M-10N
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/08/13 00:00
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	08/10/13 03:08	30,2540G	RT

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

SAMPLE RESULTS

Lab ID: L1315442-44
Client ID: HOTSPOT M-F(2')
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/08/13 00:00
Date Received: 08/08/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	08/10/13 03:08	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 41-44 QC Batch ID: WG628023-1 QC Sample: L1315400-01 Client ID: DUP Sample						
Solids, Total	89.5	89.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG628024-1 QC Sample: L1315442-01 Client ID: HOTSPOT A-N						
Solids, Total	87.2	86.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21-40 QC Batch ID: WG628025-1 QC Sample: L1315442-21 Client ID: HOTSPOT K-10N						
Solids, Total	94.2	93.5	%	1		20

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1315442-01A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PB-TI(180)
L1315442-02A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PB-TI(180)
L1315442-03A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PB-TI(180)
L1315442-04A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PB-TI(180)
L1315442-05A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	TS(7),PB-TI(180)
L1315442-06A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-07A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-08A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-09A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-10A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-11A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-12A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-13A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-14A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-15A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-16A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-17A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-18A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-19A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-20A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-21A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-22A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-23A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-24A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-25A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-26A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: Not Specified

Lab Number: L1315442
Report Date: 08/15/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1315442-27A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)
L1315442-28A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)
L1315442-29A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)
L1315442-30A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7),PB-TI(180)
L1315442-31A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-32A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-33A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-34A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-35A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-36A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-37A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-38A	Amber 120ml unpreserved	A	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-39A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-40A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-41A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-42A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-43A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)
L1315442-44A	Amber 120ml unpreserved	B	N/A	3	Y	Absent	AS-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1315442
Project Number:	Not Specified	**Report Date:**	08/15/13

GLOSSARY

Acronyms

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).
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.
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.
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.
NI	- Not Ignitable.
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.

Footnotes

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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 five times (5x) 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.
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.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1315442
Project Number:	Not Specified	**Report Date:**	08/15/13

Data Qualifiers

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

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 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.

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).

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

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1315442
Project Number:	Not Specified	**Report Date:**	08/15/13

REFERENCES

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

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.

Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial No:08151316:09

CHAIN OF CUSTODY

PAGE 1 OF 5

Date Rec'd in Lab: 8/9/13

ALPHA Job #: L1315442

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Turnkey

Address: 2558 Hamburg Turnpike

Phone: (716) 856-0599

Fax:

Email: tforbes@benchmarkturnkey.com
bgreene@turnkeyllc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hot Spot Removal (Arsenic & Lead)

Project Location: Tecumseh SPA II & SPA III

Project #:

Project Manager: Tom Forbes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/15/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Arsenic, Lead

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ 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	Arsenic	Lead	Sample Specific Comments	TOTAL # BOTTLES
15442-01	Hotspot A-N	8-1-13	1045	Soil	BMG		1		
-02	" A-S		1048				1		
-03	" A-E		1050				1		
-04	" A-W		1053				1		
-05	" A-F(2.5')		1055				1		
-06	Hotspot E-10N	8-1-13	1145			1			
-07	" E-10E		1148			1			
-08	" E-10S		1150			1			
-09	" E-25W		1153			1			
-10	" E-F(2')		1155			1			
	Container Type								
	Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Ola Fallon	8/8/13 15:00	James J. Ruckus	8-8-13 1530
James J. Ruckus	8/9/13 1800	Robert Greene	8-9-13 1500
Robert Greene	8-9-13 20:36	Billy McHam	8-9-13 20:36
Billy McHam	8-9-13 23:15		8/9/13 23:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:08151316:09

CHAIN OF CUSTODY

PAGE 2 OF 5

Date Rec'd in Lab: 8/9/13

ALPHA Job #: L1315442

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: Hot Spot Removal (Arsenic + Lead
Project Location: Tecumseh - BPA II & BPA III
Project #:
Project Manager: Tom Forbes
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/15/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Client Information

Client: Turnkey
Address: 2558 Hamburg Turnpike
Phone: (716) 856-0599
Fax:
Email: tforbes@benchmarkturnkey.com bgreen@turnkeyllc.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Arsenic

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ 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	Arsenic	Sample Specific Comments	TOTAL # BOTTLES
15442-11	Hotspot H-10E	8/1/13	920	Soil	BMG	1		
-12	" H-10N	↓	915	↓	↓	1		
-13	" H-10W	↓	923	↓	↓	1		
-14	" H-10S	↓	925	↓	↓	1		
-15	" H-F(2')	↓	930	↓	↓	1		
-16	Hotspot J-10N	8/1/13	1320	↓	↓	1		
-17	" J-20W	↓	1323	↓	↓	1		
-18	" J-10S	↓	1325	↓	↓	1		
-19	" J-10E	↓	1328	↓	↓	1		
-20	" J-F(2')	↓	1330	↓	↓	1		

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/9/13 15:00	James Z. Rickus	8-8-13/1530
James Z. Rickus	8-9-13/1800	Robert Haines	8-9-13/1800
Robert Haine	8-9-13/20:36	[signature]	8-9-13/20:36
[signature]	8-9-13 23:15	[signature]	8/9/13 23:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 3 OF 5

Date Rec'd in Lab: 8/9/13

ALPHA Job #: L1315442

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Turnkey

Address: 2558 Hamburg Turnpike

Phone: (716) 856-0599

Fax:

Email: tforbes@benchmarkturnkey.com
bgreene@turnkeyllc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hotspot Removal (Arsenic + Lead)

Project Location: Tecumseh - BPA II & BPA III

Project #:

Project Manager: Tom Forbes

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/15/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ 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	Arsenic	Lead	Arsenic & Lead	TOTAL # BOTTLES	Sample Specific Comments
15442-21	Hotspot K-10N	8/1/13	1430	Soil	BMG	1				
-22	" K-15E		1433			1				
-23	" K-10S		1435			1				
-24	" K-10W		1438			1				
-25	" K-F(2')		1440			1				
-26	Hotspot N-10N	8/2/13	1450					1		
-27	" N-10W		1453					1		
-28	" N-15S		1455					1		
-29	" N-10E		1458					1		
-30	" N-F(2')		15:00					1		

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
Alan Fallon	8/8/13 15:00	James Rucker	8-8-13/1530
James Rucker	8-9-13/1600	Robert Hains	8-9-13/1600
Robert Hains	8-9-13/20:36	Jeff Moore	8-9-13 20:36
Jeff Moore	8-9-13 23:15		8/9/13 23:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 4 OF 5

Date Rec'd in Lab: 8/9/13

ALPHA Job #: L1315442

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Turnkey
Address: 2558 Hamburg Turnpike
Phone: (716) 856-0599
Fax:
Email: tforbes@benchmarkturnkey.com bgreene@turnkeyllc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hotspot Removal (Arsenic+Lead)
Project Location: Tecumseh - BPA II + BPA III
Project #:
Project Manager: Tom Forbes
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/15/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Arsenic, Lead

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ 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	TOTAL # BOTTLES	Sample Specific Comments
15442-31	Hotspot D-10E	8/2/13	1415	Soil	TSMG	1	
-32	" D-10W		1418			1	
-33	" D-20S		1420			1	
-34	" D-10N		1422			1	
-35	" D-F(2)		1425			1	
-36	Hotspot C-100E	8/8/13	945		SPF	1	
-37	" C-0		955			1	
-38	" C-100W		1035			1	
-39	" C-200W		1040			1	
-40	"						

8/9/13

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
Sean Fallon	8/8/13 15:10	James D. Rucker	8-8-13/1530
James D. Rucker	8-9-13/1800	Robert Haines	8-9-13/1800
Robert Haines	8-9-13/2013	Jeffrey Hall	8-9-13/2013
Jeffrey Hall	8-9-13 23:15		8/9/13 23:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 5 OF 5

Date Rec'd in Lab: 8/9/13

ALPHA Job #: L1315442

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Turnkey

Address: 2558 Hamburg Turnpike

Phone: (716) 856-0599

Fax:

Email: tforbes@benchmarkturnkey.com bgreene@turnkeyllc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hotspot Removal (Arsenic + Lead)

Project Location: Tecumseh BPA-II & BPA-III

Project #:

Project Manager: Tom Forbes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/15/13 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Arsenic	Sample Specific Comments	TOTAL # BOTTLES
1542-40	Hotspot M-10E	8/8/13		Soil	SF	1		
-41	" M-10S					1		
-42	" M-10W					1		
-43	" M-10N					1		
-44	" M-F(2')					1		

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type																		
Preservative																		

Relinquished By:	Date/Time	Received By:	Date/Time
Sean Taylor	8/8/13 1540	James Ruckus	8-8-13/1530
James Ruckus	8-9-13/1800	Robert Adams	8-9-13/1800
Robert Adams	8-9-13/20:36		8-9-13/20:36
	8-9-13 23:15		8/9/13 23:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1316540
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number:	0071-013-325
Report Date:	09/04/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325

Lab Number: L1316540
Report Date: 09/04/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316540-01	025S	TECUMSEH BPAII + BPAIII	08/23/13 09:45
L1316540-02	J20S	TECUMSEH BPAII + BPAIII	08/23/13 09:40
L1316540-03	H 15S	TECUMSEH BPAII + BPAIII	08/23/13 09:20
L1316540-04	E 35W	TECUMSEH BPAII + BPAIII	08/23/13 11:45
L1316540-05	M 20S	TECUMSEH BPAII + BPAIII	08/23/13 09:55

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1316540
Project Number: 0071-013-325 **Report Date:** 09/04/13

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1316540
Project Number:	0071-013-325	**Report Date:**	09/04/13

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.

Metals

L1316540-01 through -05 have elevated detection limits due to the dilutions required by matrix interferences encountered during analysis.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 09/04/13

METALS

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1316540

Project Number: 0071-013-325 **Report Date:** 09/04/13

SAMPLE RESULTS

Lab ID: L1316540-05 Date Collected: 08/23/13 09:55

Client ID: M 20S Date Received: 08/23/13

Sample Location: TECUMSEH BPAII + BPAIII Field Prep: Not Specified

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	90		mg/kg	0.95	0.19	2	08/30/13 12:28	09/03/13 20:57	EPA 3050B	1,6010C	MG

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD) **Lab Number:** L1316540

Project Number: 0071-013-325 **Report Date:** 09/04/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG632857-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/30/13 12:28	09/03/13 13:18	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)

Project Number: 0071-013-325

Lab Number: L1316540

Report Date: 09/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG632857-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	100		-		81-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325

Lab Number: L1316540
Report Date: 09/04/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632857-4 QC Sample: L1316529-12 Client ID: MS Sample												
Arsenic, Total	1.8	10.2	10	80		-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325

Lab Number: L1316540
Report Date: 09/04/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632857-3 QC Sample: L1316529-12 Client ID: DUP Sample						
Arsenic, Total	1.8	1.4	mg/kg	25		35

INORGANICS
&
MISCELLANEOUS

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325
Lab Number: L1316540
Report Date: 09/04/13

SAMPLE RESULTS

Lab ID: L1316540-05
Client ID: M 20S
Sample Location: TECUMSEH BPAII + BPAIII
Matrix: Soil

Date Collected: 08/23/13 09:55
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	08/26/13 21:56	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325

Lab Number: L1316540
Report Date: 09/04/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG631669-1 QC Sample: L1316531-01 Client ID: DUP Sample						
Solids, Total	76.8	77.2	%	1		20

Project Name: HOTSPOT REMOVAL (ARSENIC+LEAD)
Project Number: 0071-013-325

Lab Number: L1316540
Report Date: 09/04/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316540-01A	Amber 120ml unpreserved	A	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-02A	Amber 120ml unpreserved	A	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-03A	Amber 120ml unpreserved	A	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-04A	Amber 120ml unpreserved	A	N/A	2.8	Y	Absent	AS-TI(180),TS(7)
L1316540-05A	Amber 120ml unpreserved	A	N/A	2.8	Y	Absent	AS-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1316540
Project Number:	0071-013-325	**Report Date:**	09/04/13

GLOSSARY

Acronyms

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).
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.
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.
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.
NI	- Not Ignitable.
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.

Footnotes

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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.
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.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1316540
Project Number:	0071-013-325	**Report Date:**	09/04/13

Data Qualifiers

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

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 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.

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).

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

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL (ARSENIC+LEAD)	**Lab Number:**	L1316540
Project Number:	0071-013-325	**Report Date:**	09/04/13

REFERENCES

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

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Serial_No:09041313:51

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 8/24/13

ALPHA Job #: L1316540

Client Information

Client: Turnkey Environmental

Address: 2558 Hamburg Turnpike
Buffalo N.Y. 14218

Phone: (716)-856-0599

Fax:

Email: tforbes@benchmarkturnkey.com
bgreene@turnkeyllc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hot Spot Removal (Arsenic & lead)

Project Location: Tecumseh BPA II & BPA III

Project #: 0071-013-325

Project Manager: Tom Forbes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 9/4/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Arsenic, Lead

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ 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	Arsenic / Lead	Sample Specific Comments	TOTAL # BOTTLES
16540-1	O25S	8/23/13	9:45	Soil	BMG	1		1
2	J20S	8/23/13	9:40	↓	↓	1		1
3	H 15S	8/23/13	9:20			1		1
4	E 35W	8/23/13	11:45			1		1
5	M 20 S	8/23/13	9:55			1		1

Container Type	A
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
Brock Greene	8-23-13/1505	James Z. Rickus	8-23-13/1505
James Z. Rickus	8-23-13/1800	[signature]	8/24/13 10:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1318103
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL
Project Number:	0071-013-325
Report Date:	10/09/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1318103-01	J30S	TECUMSEH	09/12/13 09:30
L1318103-02	J40S	TECUMSEH	09/12/13 09:50
L1318103-03	O30S	TECUMSEH	09/12/13 10:30
L1318103-04	O35S	TECUMSEH	09/12/13 10:50

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples 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 Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1318103
Project Number:	0071-013-325	**Report Date:**	10/09/13

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued September 26, 2013, and includes the results of all requested analyses.

The previously-issued partial report replaced the partial report issued September 19, 2013. At the client's request, the analysis of Total Arsenic was performed on L1318103-04.

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

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: 10/09/13

METALS

Project Name: HOTSPOT REMOVAL
Lab Number: L1318103
Project Number: 0071-013-325
Report Date: 10/09/13

SAMPLE RESULTS

Lab ID: L1318103-01
Client ID: J30S
Sample Location: TECUMSEH
Matrix: Soil
Percent Solids: 85%

Date Collected: 09/12/13 09:30
Date Received: 09/13/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	30		mg/kg	4.6	0.92	10	09/17/13 10:25	09/17/13 17:47	EPA 3050B	1,6010C	MG

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325
Lab Number: L1318103
Report Date: 10/09/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01,03 Batch: WG636712-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	09/17/13 10:25	09/17/13 17:19	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04 Batch: WG638614-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	09/24/13 12:40	09/24/13 19:36	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

Lab Number: L1318103

Report Date: 10/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03 Batch: WG636712-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	100		-		81-119	-		
Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG638614-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	100		-		81-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG636712-4 QC Sample: L1318028-01 Client ID: MS Sample												
Arsenic, Total	4.9	12.4	11	**49**	Q	-	-		75-125	-		35
Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG638614-4 QC Sample: L1318559-01 Client ID: MS Sample												
Arsenic, Total	8.6	11.7	24	**132**	Q	-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG636712-3 QC Sample: L1318028-01 Client ID: DUP Sample						
Arsenic, Total	4.9	4.2	mg/kg	15		35
Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG638614-3 QC Sample: L1318559-01 Client ID: DUP Sample						
Arsenic, Total	8.6	9.4	mg/kg	9		35

INORGANICS
&
MISCELLANEOUS

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

SAMPLE RESULTS

Lab ID: L1318103-01
Client ID: J30S
Sample Location: TECUMSEH
Matrix: Soil

Date Collected: 09/12/13 09:30
Date Received: 09/13/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	09/16/13 13:18	30,2540G	ML

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG636434-1 QC Sample: L1318064-10 Client ID: DUP Sample						
Solids, Total	95.7	95.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG638037-1 QC Sample: L1318103-04 Client ID: O35S						
Solids, Total	89.8	87.8	%	2		20

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1318103
Report Date: 10/09/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318103-01A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	AS-TI(180),TS(7)
L1318103-02A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	HOLD()
L1318103-03A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	AS-TI(180),TS(7)
L1318103-04A	Amber 120ml unpreserved	A	N/A	6	Y	Absent	AS-TI(180),TS(7)

*Values in parentheses indicate holding time in days

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1318103
Project Number:	0071-013-325	**Report Date:**	10/09/13

GLOSSARY

Acronyms

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).
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.
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.
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.
NI	- Not Ignitable.
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.

Footnotes

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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.
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.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1318103
Project Number:	0071-013-325	**Report Date:**	10/09/13

Data Qualifiers

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

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 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.

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).

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

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1318103
Project Number:	0071-013-325	**Report Date:**	10/09/13

REFERENCES

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

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.

Certificate/Approval Program Summary

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C,

4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE_____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/13/13

ALPHA Job #: L1318103

Client Information

Client: Turnkey Env.
Address: 2558 Hamburg Turnpike Buffalo, NY 14218
Phone: 716-225-3314
Fax:
Email: bgreene@turnkeyllc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hotspot Removal
Project Location: Tecumseh
Project #: 0071-013-325
Project Manager: Tom Forbes
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 9/20/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Arsenic

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ 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	Arsenic	Sample Specific Comments	TOTAL # BOTTLES
18103-01	J38S	9-12-13	0930	S	BMG	1		1
-02	J48S		0950	S		1	Hold	1
-03	O38S		1030	S		1		1
-04	O35S		1050	S		1	Hold	1

Container Type	A
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
Brook Greene	9-12-13/1400		9/12/13 1400
	9/12/13 1700		9/13/13 0930

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1320249
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	HOTSPOT REMOVAL
Project Number:	0071-013-325
Report Date:	10/15/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1320249-01	O45S	TECUMSEH	10/08/13 15:30
L1320249-02	O55S	TECUMSEH	10/08/13 15:35

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples 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 Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1320249
Project Number:	0071-013-325	**Report Date:**	10/15/13

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued October 14, 2013, and includes the results of all requested analyses. The project name has been amended.

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

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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 10/15/13

METALS

Project Name: HOTSPOT REMOVAL
Lab Number: L1320249
Project Number: 0071-013-325
Report Date: 10/15/13

SAMPLE RESULTS

Lab ID: L1320249-01
Client ID: O45S
Sample Location: TECUMSEH
Matrix: Soil
Percent Solids: 84%

Date Collected: 10/08/13 15:30
Date Received: 10/09/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	96		mg/kg	9.1	1.8	20	10/10/13 10:13	10/11/13 16:01	EPA 3050B	1,6010C	MG

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325
Lab Number: L1320249
Report Date: 10/15/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG642808-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/10/13 10:13	10/11/13 12:51	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOTSPOT REMOVAL

Project Number: 0071-013-325

Lab Number: L1320249

Report Date: 10/15/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG642808-2 SRM Lot Number: 0518-10-02								
Arsenic, Total	94		-		81-119	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG642808-4 QC Sample: L1320242-02 Client ID: MS Sample												
Arsenic, Total	2.3	9.85	12	98		-	-		75-125	-		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG642808-3 QC Sample: L1320242-02 Client ID: DUP Sample						
Arsenic, Total	2.3	2.0	mg/kg	14		35

INORGANICS
&
MISCELLANEOUS

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

SAMPLE RESULTS

Lab ID: L1320249-01
Client ID: O45S
Sample Location: TECUMSEH
Matrix: Soil

Date Collected: 10/08/13 15:30
Date Received: 10/09/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	10/10/13 02:31	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG642701-1 QC Sample: L1319746-45 Client ID: DUP Sample						
Solids, Total	80.6	82.0	%	2		20

Project Name: HOTSPOT REMOVAL
Project Number: 0071-013-325

Lab Number: L1320249
Report Date: 10/15/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1320249-01A	Amber 120ml unpreserved	A	N/A	2.4	Y	Absent	AS-TI(180),TS(7)
L1320249-02A	Amber 120ml unpreserved	A	N/A	2.4	Y	Absent	HOLD()

*Values in parentheses indicate holding time in days

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1320249
Project Number:	0071-013-325	**Report Date:**	10/15/13

GLOSSARY

Acronyms

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).
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.
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.
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.
NI	- Not Ignitable.
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.

Footnotes

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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.
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.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1320249
Project Number:	0071-013-325	**Report Date:**	10/15/13

Data Qualifiers

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

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 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.

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).

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

Report Format: DU Report with "J" Qualifiers

Project Name:	HOTSPOT REMOVAL	**Lab Number:**	L1320249
Project Number:	0071-013-325	**Report Date:**	10/15/13

REFERENCES

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

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.

Certificate/Approval Program Summary

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C,

4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/9/13

ALPHA Job #: L1320249

Client Information

Client: Turnkey Env.
Address: 2558 Hamburg Turnpike Buffalo, NY 14218
Phone: 716-225-3314
Fax:
Email: bgreene@turnkeyllc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hotspot Removal
Project Location: Tecumseh
Project #: 0071-013-325
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 3d TAT Time:
10/14/13

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Arsenic	Sample Specific Comments	TOTAL # BOTTLES
20249-01	045S	10-8-13	1530	S	BMG	1		1
02	055S	10-08-13	1535	S	BMG	1	Hold	1

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A												
Preservative	A												

Relinquished By:	Date/Time	Received By:	Date/Time
Brock Greene	10-9-13/1200	James Rickin	10-9-13/1200
James Rickin	10-9-13/1700	Robert Haley	10-9-13/1700
Robert Haley	10-9-13 2000	Scott [illegible]	10-9-13 2000
Scott [illegible]	10-9-13 2245	Walden McClure	10/9/13 2245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

APPENDIX G

DIGITAL COPY OF CCR