July 7, 2015

Mr. Timothy E. Dieffenbach
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203

Re: Remedial Investigation Summary Report
Tract I & II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York
NYSDEC Site Numbers C932157 & 932136

Dear Mr. Dieffenbach:

On behalf of Honeywell International, Inc. (Honeywell), Groundwater & Environmental Services, Inc. (GES) has prepared the enclosed *Remedial Investigation Summary Report* (RISR) for the Tract I & II Highland Avenue Sites, located in Niagara Falls, New York.

The work was completed in general accordance with the NYSDEC-approved *NAPL Investigation Workplan* prepared by GES and submitted on April 22, 2015.

Based on the site conditions and efforts summarized in the attached report, GES, on behalf of Honeywell, is requesting that NYSDEC provide a letter that states that no further action is required at this time to address the petroleum NAPL that has been characterized in this report.

If you have any questions or comments, please do not hesitate to contact GES at your convenience.

Sincerely,
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Eric D. Popken
Project Manager

Enclosure

REMEDIAL INVESTIGATION SUMMARY REPORT

Tract I & II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York
NYSDEC Site Numbers C932157 & 932136

Prepared for

BRIGHTFIELDS II

Brightfields Corporation
333 Ganson Street
Buffalo, New York 14203

Report Date

July 7, 2015

Prepared By:

Eric D. Popken
Project Manager

Reviewed By:

Gerald H. Cresap, Jr., P.E.
Regional Engineering Manager

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.
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Cheektowaga, New York 14225
1-800-287-7857

REMEDIAL INVESTIGATION SUMMARY REPORT

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I certify that I am currently a New York State registered professional engineer and that this *Remedial Investigation Summary Report* was prepared in accordance with all applicable statues and regulations and in substantial conformance with Division of Remediation *Technical Guidance for Site Investigation and Remediation* (DER-10).

STATE OF NEW YORK
GERALD H. CRESAP JR.
087401
LICENSED PROFESSIONAL ENGINEER

Gerald H. Cresap, Jr., P.E.
Regional Engineering Manager

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Appendix A	Laboratory Analytical Reports
Appendix B	Photo-documentation of Investigation Activities
Appendix C	Test Pit Logs
Appendix D	Soil Disposal Records

1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this *Remedial Investigation Summary Report* (RISR) for the Tract I & II Highland Avenue Sites, located in Niagara Falls, New York. The purpose of this investigation is to further delineate and characterize the light non-aqueous phase liquid (NAPL) that was observed in test pits conducted by Ontario Specialty Contracting (OSC) under the oversight and direction of Amec Foster Wheeler (Amec) during a previous site investigation in February 2015. The work was completed in general accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved *NAPL Investigation Workplan* prepared by GES and submitted on April 22, 2015. A site location map is provided in **Figure 1** and a site map is provided in **Figure 2**.

2.0 INVESTIGATION BACKGROUND, CLEANUP STANDARDS, AND APPROACH

In February 2015, NAPL was observed entering into two test pits (test pits LNAPL-1 & 2) located within the northeast corner of the Tract II (NYSDEC Site #932136) restricted residential future use boundary, in the vicinity of two former underground storage tanks (USTs) removed in 2013 on the adjacent Tract I site (NYSDEC Site #C932157). NYSDEC was notified of the observed NAPL and seven additional test pits (LNALPL-3 through LNAPL-9) were then excavated to the top of bedrock to gather information on the extent of impact. NAPL was observed within three of the nine completed test pits (LNAPL-1, LNAPL-2, and LNAPL-9 as shown in **Figure 3**. Winter weather conditions at the site prevented continuous monitoring of the test pits. A sample of the NAPL and a composite soil sample were collected and analyzed to help identify the type of contaminant present. It should be noted that the composite sample was taken from a stockpile of excavated soils which had been segregated due to petroleum nuisance characteristics (e.g. petroleum odors, staining) and was biased toward the most impacted soil. Analysis of the NAPL sample indicated weathered #6 oil and gasoline as the main constituents; no polychlorinated biphenyls (PCBs) as aroclors were detected. Petroleum identification results are included in **Table 1**. The laboratory analytical report is included in **Appendix A**. Relevant photographs collected by field personnel during the initial investigation are provided in **Appendix B**.

In March 2015, during excavation and relocation of metals-contaminated soil on the Tract II site as part of the primary remedial scope of work on-site, 1,216 tons of soil containing nuisance characteristics of petroleum contamination were segregated, stockpiled on-site, and later shipped off-site for disposal. These soils were excavated from within the area of the Tract II test pits (LNAPL-1 and LNAPL-2) advanced in February 2015. A depression within the northeastern corner of the Tract II restricted residential future use boundary was produced as a result of these excavation activities and can be seen within the appended photo documentation.

Based on existing data provided by Brightfields as part of a Request for Proposal (RFP) sent to GES in March 2015 as well as the site visit performed by GES on March 20, 2015, it was understood that remedial activities are currently being conducted for the Tract II site under a NYSDEC-approved *Tract II Remedial Design Work Plan* (RDWP). In addition GES is aware that the Tract I site has received a Certificate of Completion (COC) from the NYSDEC and is currently managed through an Environmental Easement and Site Management Plan. This investigation work is considered to be part of a corrective action measure for the Tract I site and a discrete component of the overall Tract II site remedial effort. To the extent there was work performed on the Tract I site, it was in conformance with the respective Site Management Plan.

On April 22, 2015, GES submitted the NYSDEC-approved *NAPL Investigation Work Plan* for the site, which included an outline for plans to further characterize and delineate the NAPL impacts previously discovered on-site. The scope of work included the advancement of additional test pits, and collection of soil and groundwater samples.

As noted in the RDWP, the proposed future use of the area where NAPL has been initially detected on the Tract II site would include a future City-owned park. The technical guidance for site investigation and remediation (NYSDEC DER-10) designates a park as a "restricted residential" use, therefore the RDWP establishes that the soil cleanup objectives (SCOs) would fall under "restricted residential" soil SCOs. These SCOs are outlined in Part 6 of New York State Codes, Rules, and Regulations, Part 375 (6 NYCRR Part 375) and were used as the basis for the remedial investigation, but were confined to a petroleum based delineation.

Proposed future use of the Tract I site would include commercial buildings. The Site Management Plan for the Tract I site establishes that the SCOs for the Tract I site would fall under "commercial" soil SCOs as outlined in 6 NYCRR Part 375.

As noted above, nine test pits (LNAPL-1 through LNAPL-9, as shown in **Figure 3**) were excavated during the initial investigation in February 2015, and NAPL was observed at three locations – LNAPL-1, LNAPL-2, and LNAPL-9. It is understood that NAPL was not observed in the remaining test pits; therefore, it was estimated that the NAPL footprint was initially laterally delineated to the location of the remaining test pits:

- to the east of test pit LNAPL-1 and LNAPL-9 by test pits LNAPL-5 and LNAPL-4, respectively;
- to the south of test pits LNAPL-1 and LNAPL-2 by test pits LNAPL-3 and LNAPL-8, respectively; and,
- to the west of test pit LNAPL-2 by test pit LNAPL 6 and LNAPL-7.

No test pits were advanced north of LNAPL-9 during the February 2015 investigation; therefore, test pits were proposed on the Tract I property for northern delineation. In addition, the distance between LNAPL-3 and LNAPL-8 and test pits LNAPL-1 and LNAPL-2 was far relative to the other delineating test pits. These areas were considered to be data gaps from the initial investigation; therefore, additional test pits were proposed and conducted in these areas.

3.0 REMEDIAL INVESTIGATION METHODOLOGY

3.1 Test Pits

On March 20, 2015, GES visited the site to review the locations of the test pits that were previously conducted. It was observed that the impacted area could be easily accessed by construction equipment, and there were no structures, active overhead or underground utilities, or any other physical restrictions. In addition, there were no finished surfaces that would need to be disturbed when investigating the site. Therefore, in order to further delineate the NAPL and soil impacts in a cost-effective and efficient manner, a subsurface investigation was conducted, consisting of the completion of a series of test pits at the locations shown on **Figure 3**. The test pits were conducted by Ontario Specialty Contracting (OSC) under oversight and direction of GES. From April 23 through May 19, 2015, 21 test pits (LNAPL-10

through LNAPL-27, and a re-advancement of LNAPL-1, 2, and 9) were advanced using a track-mounted excavator. Test pits were advanced to depths ranging from 4 to 22 feet below grade (ftbg).

The test pits were advanced in approximately two-foot intervals. Soil samples were logged by GES personnel for color, moisture content, grain size, and visual evidence of hydrocarbon impact. The samples were placed in plastic bags and screened for organic vapors using a photo-ionization detector (PID) equipped with a 10.6 electron-Volt (eV) lamp and calibrated to 100 parts per million by volume (ppmv) using an isobutylene standard. From select samples, the soil sample from each test pit exhibiting the highest PID measurement was selected for laboratory analysis. If no elevated PID readings were observed, but visual or olfactory signs of petroleum contamination were observed, a sample was selected for laboratory analysis. If no elevated PID readings or visual/olfactory signs of petroleum contamination were observed, then no sample was selected for laboratory analysis. Samples were placed in laboratory-supplied glassware, stored on ice, and shipped under chain of custody to Paradigm Environmental Services, Inc. in Rochester, New York for analysis of the list of volatile organic compounds (VOCS) provided in NYSDEC Commissioner Policy (CP)-51, via United States Environmental Protection Agency (USEPA) Method 8260, and the list of semi-volatile organic compounds (SVOCs) provided in NYSDEC CP-51 via USEPA Method 8270. In addition, a groundwater sample was collected from LNAPL-19 and submitted for laboratory analysis of petroleum related VOCs and SVOCs. Relevant photographs collected by field personnel are provided in **Appendix B**. Test pit logs containing soil lithology, field screening readings and general observations are included in **Appendix C**. Coordinates and surface elevations for all test pits are provided in **Table 2** for future reference.

4.0 REMEDIAL INVESTIGATION RESULTS

4.1 Lithology and Field Observations

The test pit locations, with respect to the site layout are illustrated on **Figure 3**. Coordinates for all test pit locations were collected by OSC personnel using a Topcon RTK-GPS system and are provided in **Table 2** for future reference. Test pit logs containing soil lithology, field screening readings and general observations are included in **Appendix C**.

In general, four distinct lithological layers were encountered during the subsurface investigation: fill material, a clay and silt layer, a discontinuous organic layer, and a discontinuous basal sand and gravel layer that often extended to the termination depth of the investigation, which in most cases was bedrock. A summary of the observed site lithology and field observations are described below.

- FILL –
    - On the Tract I site, the fill material primarily consisted of clean cover material that was applied as part of the overall scope of work for the site. The cover material consisted of a clay/silt mixture. The clean fill material on the Tract I site was generally observed from the surface to up to four ftbg.
    - On the Tract II site, the fill material primarily consists of silt with gravel and debris. The debris primarily consisted of a mixture of bricks, concrete, and wood. Fill material was generally observed from the surface to depths ranging from one to two ftbg.
- CLAY – Brown or grey, clay and silt were typically encountered below the fill interval. The clay material was often moist, though not wet or saturated, and occasionally contained organics. The clay layer was generally observed from the surface to depths up to 20 ftbg.

- ORGANIC LAYER – A discontinuous organic layer was encountered in test pits labeled LNAPL-11, 12, 19, 20, 23, 24, and 25. Organic layer was dark brown to black in color and consisted of silt with a high degree of organics. The organic layer was observed at depths ranging from four to six ftbg and was no thicker than one foot. It is thought that this layer may represent the original surface of the site before anthropogenic development of the site.
- SAND AND GRAVEL – A basal sand and gravel layer was often observed below the clay & silt layer and was often the terminal layer before encountering bedrock. The sand and gravel occasionally contained cobbles and weathered bedrock which was difficult for the excavator to advance through. The sand and gravel was observed from depths ranging from 4 to 20 ftbg. The sand and gravel layer ranged in thickness from less than one foot to seven feet. Elevated PID readings were most often observed in this interval. Maximum PID readings in this interval ranged from 26.4 ppmv to 66.6 ppmv. Groundwater was often observed entering the test pits in this interval, carrying the NAPL at the locations shown on **Figure 3**. At test pits LNAPL-21 and LNAPL-23, the sand and gravel layer undermined the above soil intervals causing instability and caving of the above intervals. Due to the caving, these test pits were terminated prior to reaching the top of bedrock. Further details are provided in the test pit logs.
- BEDROCK – Dark gray, dolostone bedrock was encountered at the termination of the test pits. This is consistent with prior investigation activities on-site. According to the RDWP, the dolostone is a member of the Silurian-aged Lockport Group. Bedrock was observed to be between 4 and 22 ftbg. It should be noted that surface elevation varies greatly across the NAPL investigation area, primarily due to the depression in Tract II created during the March 2015 soil removal activities. Most test pits advanced at the Tract II site were in the depression and therefore were at lower surface elevation relative to the surface elevations at the Tract I test pits. Surface and bedrock elevations are provided on **Table 2**. To illustrate the true surface and bedrock elevation across the NAPL investigation area, a cross-section figure was generated from the approximate location of LNAPL-18 north to LNAPL-25, a distance of approximately 275 feet, as shown in the Cross-Section Location Map in **Figure 4** and the Cross-Section Map in **Figure 5**. Bedrock elevation was observed to decrease as moving northward into Tract I independent of surface elevation. The basal sand and gravel layer was observed to generally follow the bedrock elevation.
- At test pit LNAPL-20, a black, metallic pipe with an approximate outer diameter of 10” (initially estimated to be 12” during the test pit activities) was encountered at a depth of approximately 10 ftbg. A review of the historical Sanborn map for the site (as included as **Figure 6**) was performed and it was determined that the pipe was an inactive relic for the former Tract I structure based on the location of an 8” (presumably inner diameter) water line that ran through this area of the site and specifically at the location of LNAPL-20. Additionally, the pipe material, finish, and size were consistent with other sections previously encountered by site personnel, both upstream and downstream of the LNAPL-20 location. The pipe had been capped at the upstream and downstream locations. On May 19, 2015 a section of the pipe was removed for inspection. A photograph of the pipe is included in **Appendix A**. The inner contents consisted primarily of surrounding soil that had filled in during removal. After inspection, OSC sealed the exposed ends with clean clay material that was used to backfill the test pit.

4.2 NAPL Observations

NAPL in the form of a discontinuous, brown petroleum product was observed in the following test pits: LNAPL-1, 2, 9, 12, 13, 19, 20, 22, and 24. The approximate lateral extent of the observed NAPL is shown on **Figure 3**. NAPL was observed entering the test pits when groundwater was encountered at the

basal sand and gravel layer that is located immediately above bedrock and is likely the primary route of transport across the sites from the location of the underground storage tanks removed from Tract I as shown on **Figure 3**.

During the initial NAPL investigation in February 2015, a sample of the NAPL was collected and submitted for laboratory analysis of petroleum product identification via New York State Department of Health (NYSDOH) Method 310.13. As shown in **Table 1**, laboratory results indicated that the NAPL consisted of a mixture of #6 oil and gasoline.

4.3 Soil Sample Analytical Results

Test pit analytical data are tabulated in **Table 3** (VOCs) and **Table 4** (SVOCs), and illustrated in **Figure 7**. The laboratory analytical reports are included in **Appendix A**. All subsurface soil analytical results were compared to guidelines provided in 6 NYCRR Part 375, Commercial Use SCOs for samples collected from Tract I, and Restricted Residential Use SCOs for samples collected from Tract II. The laboratory analytical results for the composite soil sample (E4-TD-1) collected on February 10, 2015 is also included.

A summary of the analyzed compounds is provided below:

- VOCs – Concentrations of VOCs were not detected above Restricted Residential or Commercial SCOs in any of the soil samples collected from the test pits.

- SVOCs –
    - Concentrations of SVOCs were detected below Commercial SCOs for all soil samples collected from test pits advanced on Tract I.
    - Concentrations of SVOCs were detected above Restricted Residential SCOs only from the composite sample collected from a stockpile of excavated soils which had been segregated due to petroleum nuisance characteristics.
    - Concentrations of SVOCs were detected below Restricted Residential SCOs for all other soil samples collected from test pits advanced on Tract II.

4.4 Groundwater Analytical Results

On April 27, 2015 a groundwater sample was collected from LNAPL-19 for laboratory analysis of petroleum related VOCs and SVOCs. Analytical data are tabulated in **Table 5** (VOCs) and **Table 6** (SVOCs)**.** The laboratory analytical report is included in **Appendix A**. Groundwater analytical results were compared to NYSDEC TOGS 1.1.1 standards (or guidance values where no standard exists) Class GA, type H (WS) for protection of drinking water. A summary of the analyzed compounds is provided below:

- VOCs – Concentrations of VOCs were not detected above laboratory limits or TOGS 1.1.1 standards.
- SVOCs – Concentrations of SVOCs were not detected above laboratory limits or TOGS 1.1.1 standards.

5.0 RESTORATION EFFORTS AND WASTE DISPOSAL

Soil excavated during the investigation activities was temporarily stockpiled on-site. Upon completion of the test pits, and with NYSDEC approval, the excavated soil was backfilled into the test pits from which it originated.

Prior to backfilling the test pits, and with NYSDEC authorization, NAPL was removed from any standing water inside the test pits using buoyant hydrophobic adsorbent pads, and pumping out any collected water inside the test pits. The water was managed by OSC and discharged to the sanitary sewer manhole that is located on-site.

Excavated soil was backfilled into the test pits in the reverse order from which it was removed. As per NYSDEC direction, any soil exhibiting nuisance characteristics (e.g. petroleum staining, odors, NAPL, or elevated PID readings) was segregated for landfill disposal. It should be noted that on May 19, 2015, additional soil was excavated at the locations of test pits LNAPL-1 and LNAPL-2 to remove soils exhibiting petroleum nuisance characteristics. Additional soil grab samples were collected from test pits LNAPL-1, 2, and 9 and submitted for laboratory analysis of petroleum VOCs and SVOCs, as described in Section 3.1, to confirm that the remaining soils on the Tract II site meet applicable SCOs. In addition to collecting laboratory analytical samples for delineation purposes, two composite soil samples were submitted for laboratory analysis to establish a landfill disposal profile. Any void space remaining in the test pits due to disposal of soil meeting the above characteristics was backfilled with clean soil provided by OSC in accordance with on-site requirements for both the Tract I and II sites.

From June 9 to June 10, 2015, 188 tons of soil was transported to the Modern Landfill, Inc. landfill in Model City, New York for disposal as non-hazardous, petroleum contaminated soil. Soil disposal manifests, including those from the March 2015 soil disposal are included in **Appendix D**.

As a prudent measure and with NYSDEC authorization, a moderate portion of Oxygen Release Compound Advanced® (ORC-A) was placed within the first backfill lift of each of the three Tract II test pits where NAPL had been previously observed (LNAPL-1, 2, and 9). ORC-A is a compound manufactured by Regenesis, Inc. of San Clemente, California that is utilized to accelerate the rate of naturally occurring aerobic contaminant biodegradation in groundwater and saturated soils. Approximately 225 pounds of ORC-A was distributed equally between the three test pits in an effort to causes a positive influence towards natural attenuation of any remaining petroleum contaminants. After application of the ORC-A, the test pits were backfilled to grade.

6.0 SUMMARY

As described in Section 4.3 and 4.4, elevated concentrations of petroleum VOCs and SVOCs in soil samples were not detected in the test pit samples collected from the Tract I and Tract II sites above applicable SCOs with the exception of the composite sample collected in February 2015, from a stockpile of excavated soils which had been segregated due to petroleum nuisance characteristics. In accordance with guidance from NYSDEC, additional grab-style soil samples were collected from test pits LNAPL-1, 2, and 9 and submitted for laboratory analysis of VOCs and SVOCs as described in Section 3.1 to confirm that the remaining soils on the Tract II site meet applicable SCOs. As discussed in Section 4.3 and shown on **Table 3** and **Table 4**, concentrations of VOCs and SVOCs were below applicable SCOs.

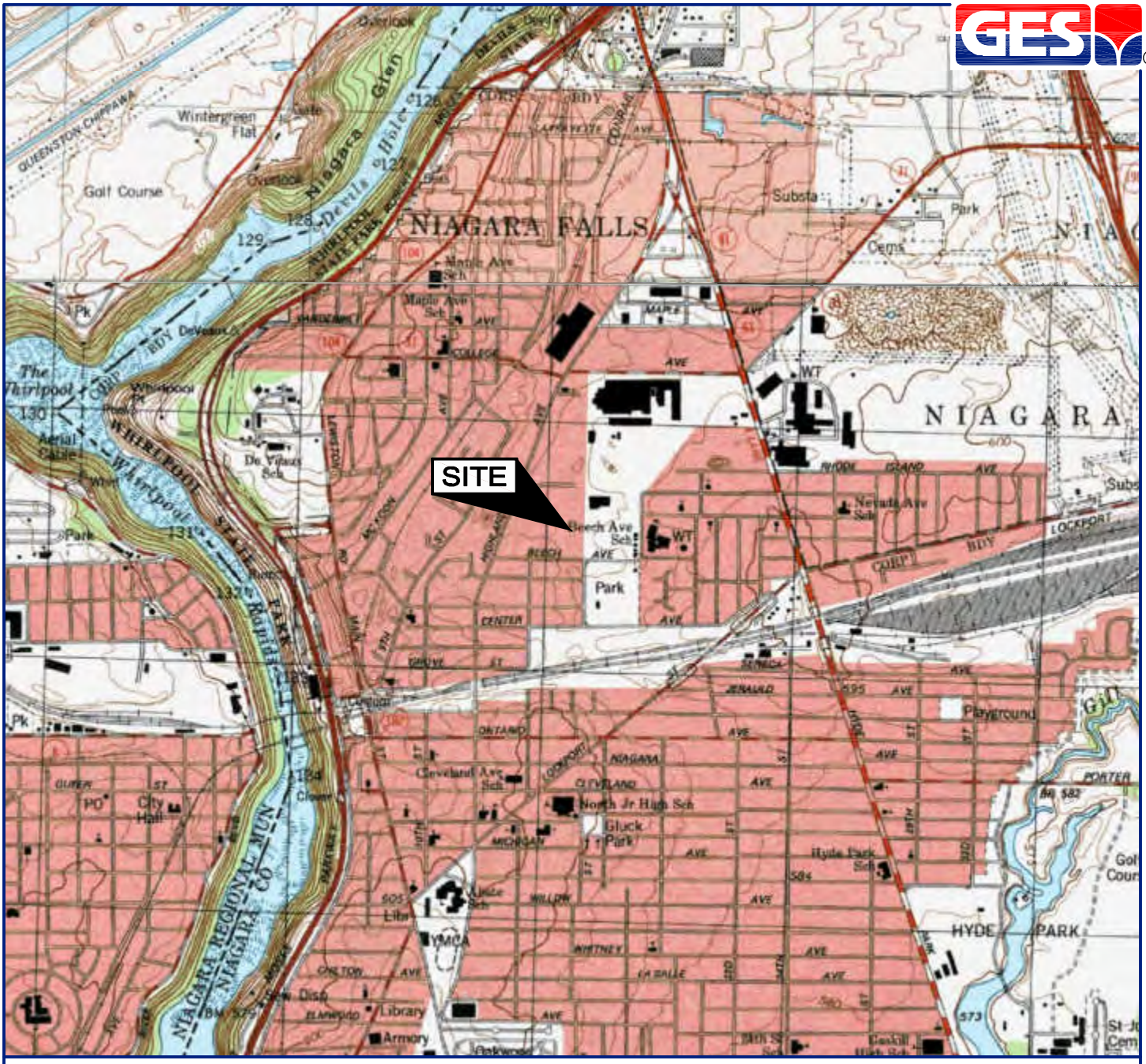
As discussed in Section 4.4 and shown on **Table 5** and **Table 6**, concentrations of petroleum VOCs and SVOCs from the groundwater sample collected from test pit LNAPL-19 (where NAPL was observed) were not detected above laboratory limits or TOGS 1.1.1 standards.

NAPL has been delineated both laterally and vertically by the series of test pits that were advanced on the two sites. In addition, the laboratory analytical results for the soil and groundwater samples collected indicates that the limited presence of petroleum-based NAPL is heavily weathered due to the lack of detected VOCs and SVOCs, and has not impacted the Tract I or Tract II site soils to the extent which exceeds applicable SCOs.

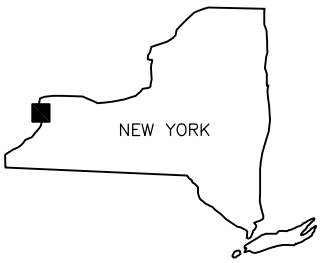
As discussed in Section 5.0, 255 pounds of ORC-A was distributed equally between the three Tract II test pits where NAPL had been previously observed in an effort to assist in the further natural biodegradation of the residual NAPL in the subsurface.

During the remedial investigation activities and the excavation and relocation of metals-contaminated soil, a total of 1,404 tons of petroleum-impacted soil were transported for landfill disposal.

FIGURES



SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1995
NIAGARA FALLS, NEW YORK
CONTOUR INTERVAL = 5'



QUADRANGLE LOCATION

DRAFTED BY: W.G.S. (N.J.)	SITE LOCATION MAP
CHECKED BY:	BRIGHTFIELDS CORPORATION TRACT I & TRACT II SITES 3001 HIGHLAND AVENUE NIAGARA FALLS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 158 SONWIL DRIVE, CHEEKTOWAGA, NEW YORK 14225
NORTH	SCALE IN FEET: 0 — 2000 / DATE: 6-9-15 / FIGURE: 1

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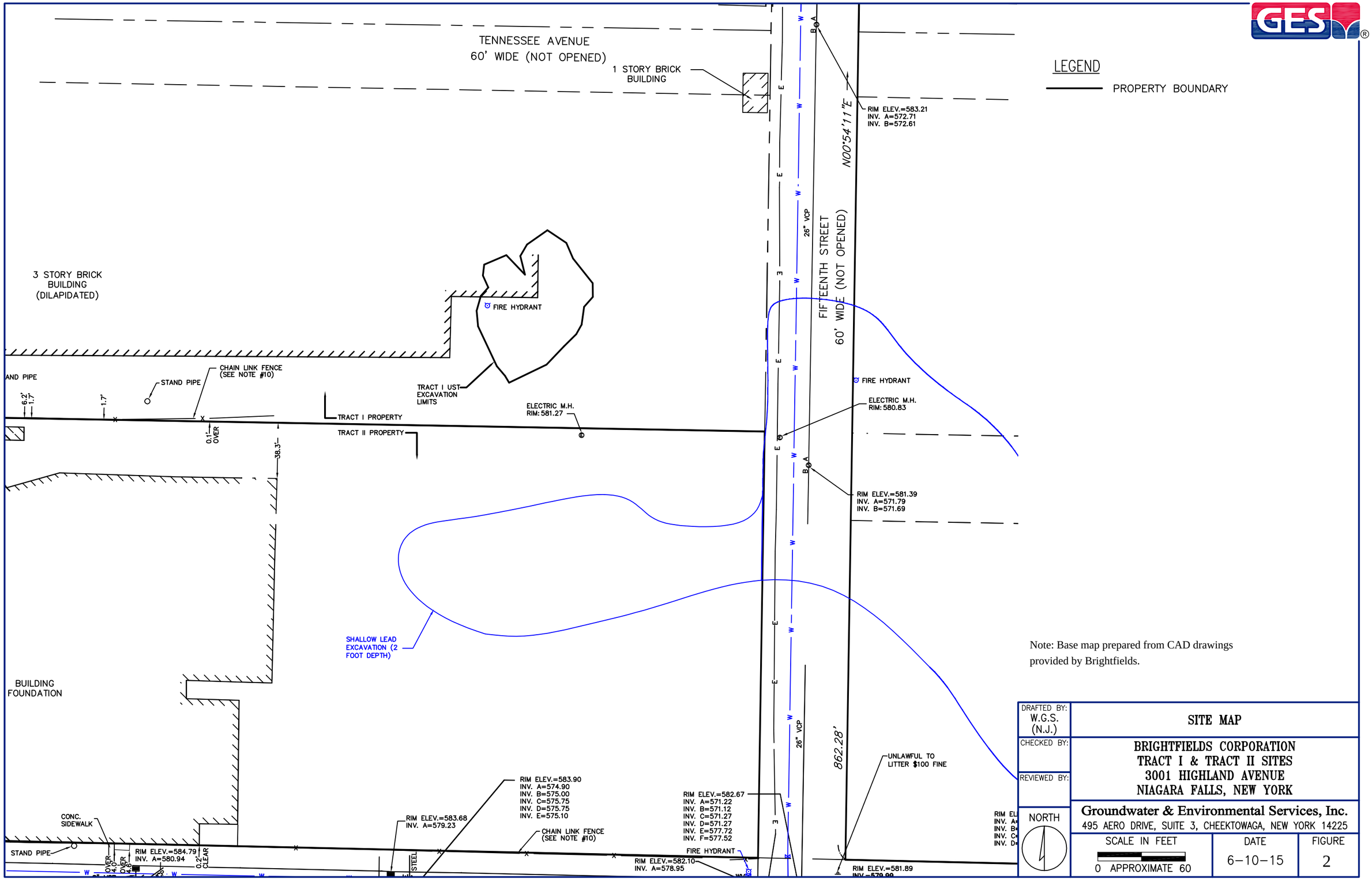


Note: Base map prepared from CAD drawings provided by Brightfields.

DRAFTED BY: W.G.S. (N.J.)	SITE MAP
CHECKED BY:	BRIGHTFIELDS CORPORATION TRACT I & TRACT II SITES 3001 HIGHLAND AVENUE NIAGARA FALLS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 495 AERO DRIVE, SUITE 3, CHEEKTOWAGA, NEW YORK 14225
SCALE IN FEET	DATE: 6-10-15
FIGURE: 2	

M:\Graphics\0900-Buffalo\Misc\Brightfields\Brightfields Tract II\Brightfields Tract I & II SM.dwg, B-60, 6/10/2015 1:27:58 PM, WShea

TENNESSEE AVENUE
60' WIDE (NOT OPENED)

1 STORY BRICK BUILDING

RIM ELEV.=583.21
INV. A=572.71
INV. B=572.61

N00°54'11"E

FIFTEENTH STREET
60' WIDE (NOT OPENED)

26" VCP

AREA OF OBSERVED NAPL

LNAPL-25
LNAPL-21
LNAPL-22
LNAPL-24
LNAPL-26
LNAPL-23
LNAPL-20
LNAPL-19
LNAPL-27
LNAPL-12
LNAPL-11
LNAPL-13
LNAPL-9
LNAPL-4
LNAPL-14
LNAPL-10
LNAPL-6
LNAPL-2
LNAPL-1
LNAPL-5
LNAPL-7
LNAPL-16
LNAPL-15
LNAPL-17
LNAPL-18
LNAPL-8
LNAPL-3

3 STORY BRICK BUILDING (DILAPIDATED)

FIRE HYDRANT

TRACT I UST EXCAVATION LIMITS

ELECTRIC M.H.
RIM: 581.27

TRACT I PROPERTY

TRACT II PROPERTY

AND PIPE

STAND PIPE

CHAIN LINK FENCE (SEE NOTE #10)

6.2'
1.7'
1.7'
0.1'-OVER
38.3'

FIRE HYDRANT

ELECTRIC M.H.
RIM: 580.83

RIM ELEV.=581.39
INV. A=571.79
INV. B=571.69

SHALLOW LEAD EXCAVATION (2 FOOT DEPTH)

BUILDING FOUNDATION

862.28'

26" VCP

UNLAWFUL TO LITTER $100 FINE

RIM ELEV.=583.90
INV. A=574.90
INV. B=575.00
INV. C=575.75
INV. D=575.75
INV. E=575.10

RIM ELEV.=582.67
INV. A=571.22
INV. B=571.12
INV. C=571.27
INV. D=571.27
INV. E=577.72
INV. F=577.52

RIM EL
INV. A=
INV. B=
INV. C=
INV. D=

CONC. SIDEWALK

STAND PIPE

RIM ELEV.=584.79
INV. A=580.94

0.4'-OVER
0.2'-CLEAR

RIM ELEV.=583.68
INV. A=579.23

STEEL

CHAIN LINK FENCE (SEE NOTE #10)

FIRE HYDRANT

RIM ELEV.=582.10
INV. A=578.95

RIM ELEV.=581.89
INV. =579.99

LEGEND

PROPERTY BOUNDARY

TEST PITS

Note: Base map prepared from CAD drawings provided by Brightfields.

DRAFTED BY: W.G.S. (N.J.)	LNAPL TEST PITS LOCATION MAP
CHECKED BY:	BRIGHTFIELDS CORPORATION TRACT I & TRACT II SITES 3001 HIGHLAND AVENUE NIAGARA FALLS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 495 AERO DRIVE, SUITE 3, CHEEKTOWAGA, NEW YORK 14225
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 6-10-15 / FIGURE: 3

M:\Graphics\0900-Buffalo\Misc\Brightfields\Brightfields Tract II\Brightfields Tract I & II SM.dwg, B-60, 6/10/2015 1:26:54 PM, WShea

TENNESSEE AVENUE
60' WIDE (NOT OPENED)

1 STORY BRICK BUILDING

RIM ELEV.=583.21
INV. A=572.71
INV. B=572.61

N00°54'11"E

FIFTEENTH STREET
60' WIDE (NOT OPENED)

26" VCP

AREA OF OBSERVED NAPL

A'

LNAPL-25
LNAPL-21
LNAPL-22
LNAPL-24
LNAPL-26
LNAPL-23
LNAPL-20
LNAPL-19
LNAPL-27
LNAPL-12
LNAPL-11
LNAPL-13
LNAPL-9
LNAPL-4
LNAPL-14
LNAPL-10
LNAPL-6
LNAPL-2
LNAPL-1
LNAPL-5
LNAPL-7
LNAPL-16
LNAPL-15
LNAPL-17
LNAPL-18
LNAPL-8
LNAPL-3

A

3 STORY BRICK BUILDING (DILAPIDATED)

FIRE HYDRANT

TRACT I UST EXCAVATION LIMITS

ELECTRIC M.H.
RIM: 581.27

TRACT I PROPERTY

TRACT II PROPERTY

AND PIPE

STAND PIPE

CHAIN LINK FENCE (SEE NOTE #10)

6.2'
1.7'
1.7'
0.1' OVER
38.3'

FIRE HYDRANT

ELECTRIC M.H.
RIM: 580.83

RIM ELEV.=581.39
INV. A=571.79
INV. B=571.69

SHALLOW LEAD EXCAVATION (2 FOOT DEPTH)

BUILDING FOUNDATION

RIM ELEV.=583.90
INV. A=574.90
INV. B=575.00
INV. C=575.75
INV. D=575.75
INV. E=575.10

RIM ELEV.=583.68
INV. A=579.23

CHAIN LINK FENCE (SEE NOTE #10)

RIM ELEV.=582.67
INV. A=571.22
INV. B=571.12
INV. C=571.27
INV. D=571.27
INV. E=577.72
INV. F=577.52

FIRE HYDRANT

RIM ELEV.=582.10
INV. A=578.95

862.28'

UNLAWFUL TO LITTER $100 FINE

RIM ELEV.=581.89

CONC. SIDEWALK

STAND PIPE

RIM ELEV.=584.79
INV. A=580.94

4.0' OVER
0.2' OVER
0.2' CLEAR

STEEL

LEGEND

PROPERTY BOUNDARY

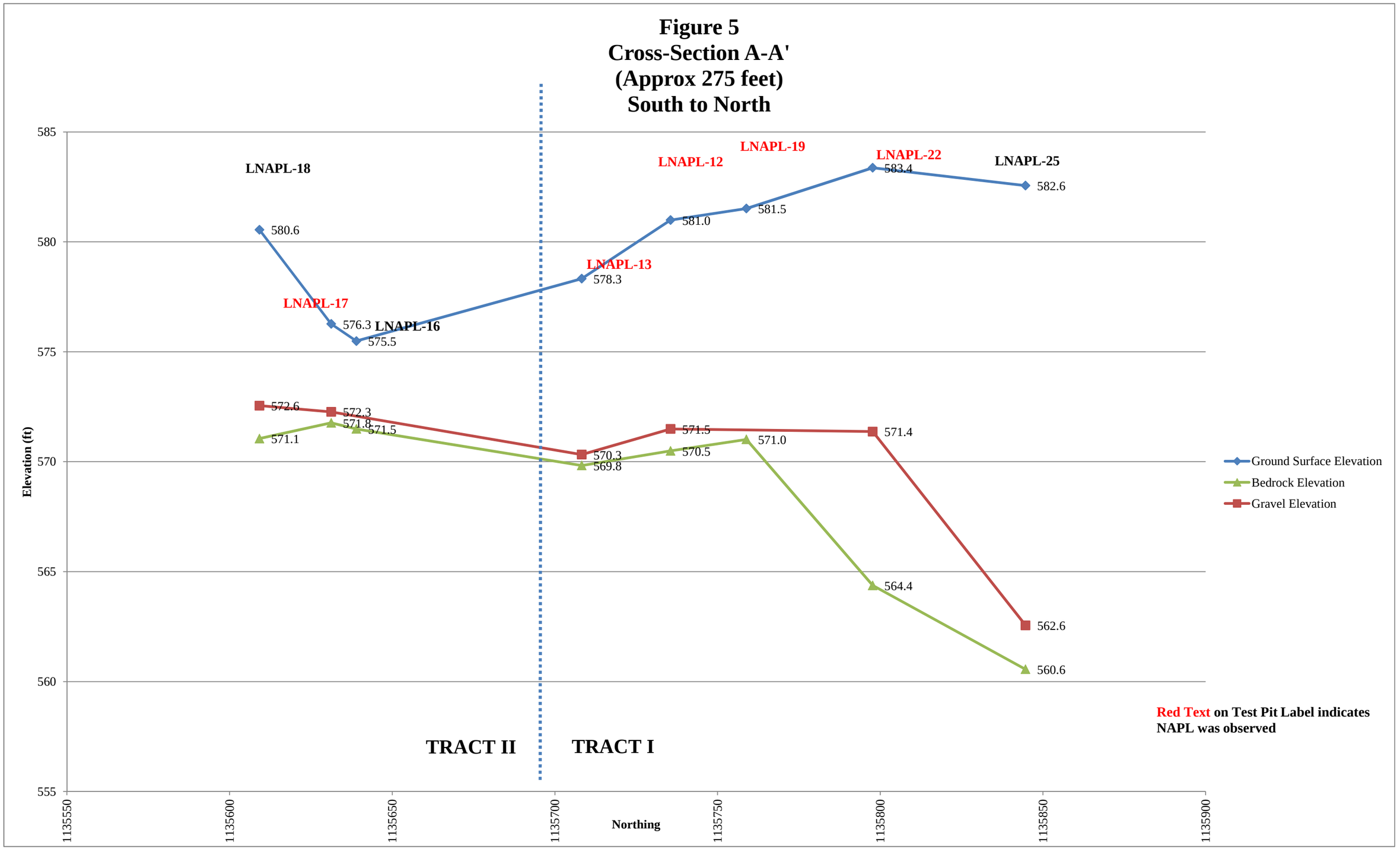
TEST PITS

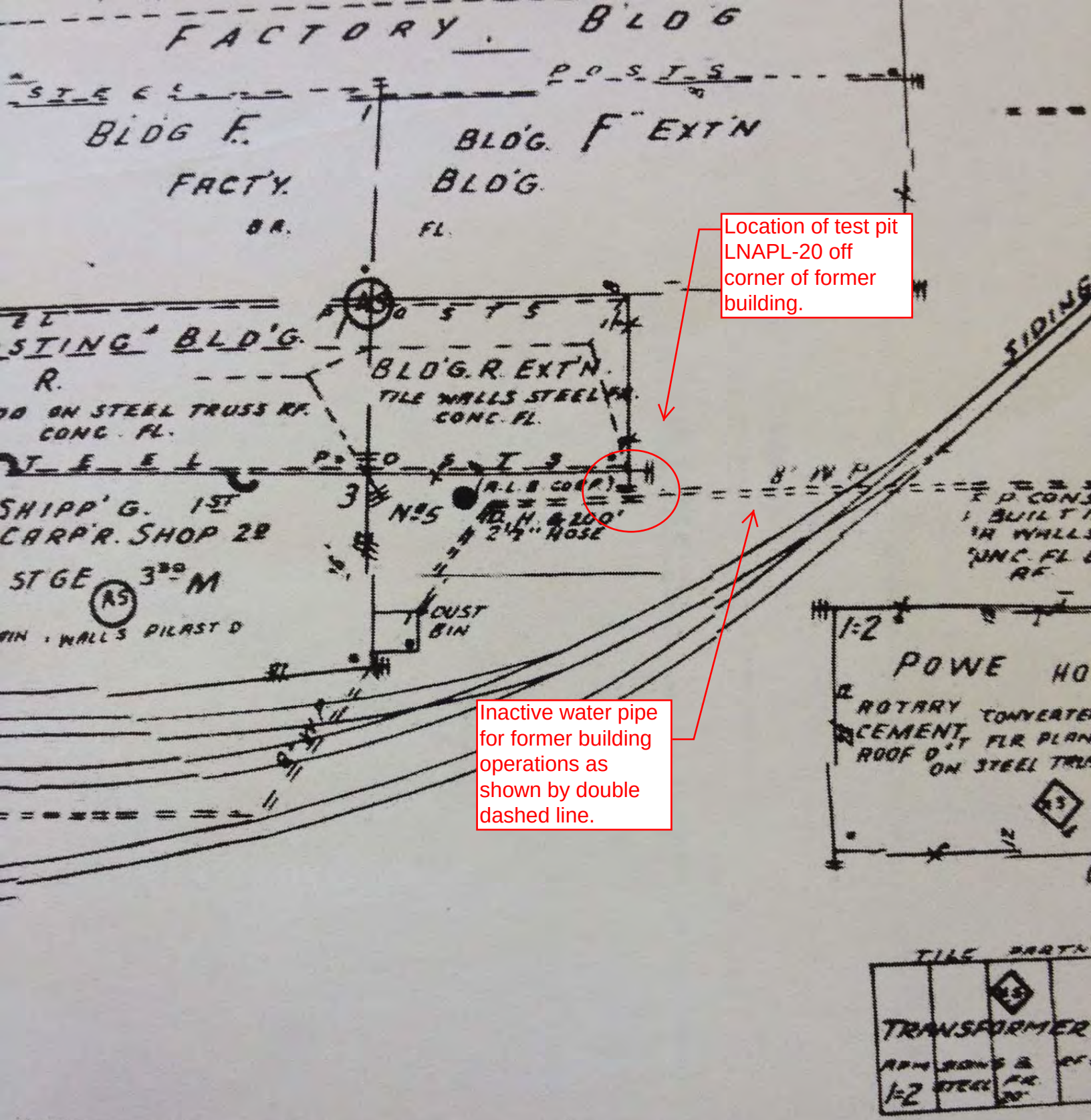
Note: Base map prepared from CAD drawings provided by Brightfields.

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION LOCATION MAP
CHECKED BY:	BRIGHTFIELDS CORPORATION TRACT I & TRACT II SITES 3001 HIGHLAND AVENUE NIAGARA FALLS, NEW YORK
REVIEWED BY:	Groundwater & Environmental Services, Inc. 495 AERO DRIVE, SUITE 3, CHEEKTOWAGA, NEW YORK 14225
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 6-10-15 / FIGURE: 4

M:\Graphics\0900-Buffalo\Misc\Brightfields\Brightfields Tract I & II SM.dwg, B-60, 6/10/2015 1:27:39 PM, WShea

Figure 5
Cross-Section A-A'
(Approx 275 feet)
South to North





Brightfields Corporation
Tract I and Tract II Sites
3001 Highland Avenue
Niagara Falls, New York

Figure 6
Sample of Sanborn Map
Showing Water Pipe

TENNESSEE AVENUE
60' WIDE (NOT OPENED)

1 STORY BRICK BUILDING

3 STORY BRICK BUILDING (DILAPIDATED)

BUILDING FOUNDATION

AREA OF OBSERVED NAPL

FIFTEENTH STREET
60' WIDE (NOT OPENED)

N00°54'11"E

RIM ELEV.=583.21
INV. A=572.71
INV. B=572.61

RIM ELEV.=581.39
INV. A=571.79
INV. B=571.69

RIM ELEV.=583.90
INV. A=574.90
INV. B=575.00
INV. C=575.75
INV. D=575.75
INV. E=575.10

RIM ELEV.=583.68
INV. A=579.23

RIM ELEV.=582.67
INV. A=571.22
INV. B=571.12
INV. C=571.27
INV. D=571.27
INV. E=577.72
INV. F=577.52

RIM ELEV.=582.10
INV. A=578.95

RIM ELEV.=581.89

RIM ELEV.=584.79
INV. A=580.94

ELECTRIC M.H.
RIM: 581.27

ELECTRIC M.H.
RIM: 580.83

FIRE HYDRANT

FIRE HYDRANT

STAND PIPE

STAND PIPE

CONC. SIDEWALK

CHAIN LINK FENCE (SEE NOTE #10)

CHAIN LINK FENCE (SEE NOTE #10)

TRACT I PROPERTY

TRACT II PROPERTY

TRACT I UST EXCAVATION LIMITS

SHALLOW LEAD EXCAVATION (2 FOOT DEPTH)

UNLAWFUL TO LITTER $100 FINE

26" VCP

26" VCP

862.28'

LNAPL-21
4-24-15
8-10'
24.6
ND
ND

LNAPL-20
4-24-15
14-15'
28.6
9.9
ND

LNAPL-12
4-23-15
10'
3.8
ND
ND

LNAPL-22
4-24-15
14-15'
11.6
ND
351

LNAPL-24
4-27-15
14-14.5'
40.1
19.5
ND

LNAPL-26
4-27-15
14-15'
31.8
41.8
ND

LNAPL-19
4-24-15
10-10.5'
52.1
20.7
ND

LNAPL-13
4-23-15
8.5'
26.4
22.1
ND

LNAPL-9
5-19-15
6-8'
0.9
ND
479

LNAPL-2
5-19-15
3-5'
1.6
ND
5,525

LNAPL-17
4-23-15
4.5'
48.6
219
1,359

LNAPL-1
5-19-15
4-5'
22.3
1.621
2,250

LNAPL-25 LNAPL-21 LNAPL-22 LNAPL-24 LNAPL-23 LNAPL-20 LNAPL-26 LNAPL-19 LNAPL-27 LNAPL-12 LNAPL-11 LNAPL-13 LNAPL-9 LNAPL-10 LNAPL-4 LNAPL-14 LNAPL-7 LNAPL-6 LNAPL-2 LNAPL-1 LNAPL-5 LNAPL-16 LNAPL-15 LNAPL-17 LNAPL-18 LNAPL-8 LNAPL-3

LEGEND

- PROPERTY BOUNDARY
- ▲ TEST PITS
- LNAPL-12 — SAMPLE IDENTIFICATION
- 4-23-15 — SAMPLE DATE
- 10' — SAMPLE DEPTH (feet)
- 3.8 — PID READING (ppmv)
- ND — TOTAL VOC CONCENTRATION (ug/kg)
- ND — TOTAL SVOC CONCENTRATION (ug/kg)
- ppmv — PARTS PER MILLION BY VOLUME
- ug/kg — MICROGRAMS PER KILOGRAM
- VOC — VOLATILE ORGANIC COMPOUNDS
- SVOC — SEMI-VOLATILE ORGANIC COMPOUNDS
- ND — NOT DETECTED

Note: Base map prepared from CAD drawings provided by Brightfields.

NORTH

DRAFTED BY:	W.G.S. (N.J.)
CHECKED BY:	
REVIEWED BY:	

SOIL ANALYTICAL DATA MAP

BRIGHTFIELDS CORPORATION
TRACT I & TRACT II SITES
3001 HIGHLAND AVENUE
NIAGARA FALLS, NEW YORK

Groundwater & Environmental Services, Inc.
495 AERO DRIVE, SUITE 3, CHEEKTOWAGA, NEW YORK 14225

SCALE IN FEET	DATE	FIGURE
0 APPROXIMATE 60	6-10-15	7

TABLES

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 1
Petroleum Identification Analysis
February 2015

Sample Point	E4-TD-2	T2-WC PIPE
Location	TRACT II	TRACT II
Sample Type	SOIL	SLUDGE
Sample Date	2/10/2015	2/11/2015
Identification of Routine Petroleum Products via Method 310.13 (mg/kg)		
Gasoline	750,000	ND<480
Kerosene	ND<19,000	ND<1,200
Motor Oil	17,000	17,000
Fuel Oil #2	ND<19,000	ND<1,200
Fuel Oil #4	ND<19,000	ND<1,200
Fuel Oil #6	3,800,000	ND<1,200
Unknown Hydrocarbons	ND<7,700	ND<1,200

Notes:
ND = below laboratory detection limits
NA = Not Analyzed
NC = Not Collected
ftbg = feet below grade
µg/kg = micrograms per kilogram

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 2
Test Pit Location and Elevation Data

TP #	Northing	Easting	Ground Surface Elevation	Bedrock Depth (ftbg)	Bedrock Elevation	Depth to Gravel (ftbg)	Gravel Elevation
1	1135656.57	1025240.83	Not Recorded	5.0	NA	3.0	NA
2	1135661.27	1025204.89	Not Recorded	5.0	NA	3.0	NA
3	1135612.79	1025246.85	Not Recorded	Not Recorded	NA	Not Recorded	NA
4	1135690.97	1025256.63	Not Recorded	Not Recorded	NA	Not Recorded	NA
5	1135661.50	1025280.96	Not Recorded	Not Recorded	NA	Not Recorded	NA
6	1135661.17	1025166.23	Not Recorded	Not Recorded	NA	Not Recorded	NA
7	1135654.54	1025130.47	Not Recorded	Not Recorded	NA	Not Recorded	NA
8	1135609.92	1025209.33	Not Recorded	Not Recorded	NA	Not Recorded	NA
9	1135691.83	1025191.00	Not Recorded	8.0	NA	6.0	NA
10	1135679.64	1025167.86	578.6	6.7	571.9	Not Observed	NA
11	1135730.26	1025177.42	582.5	10	572.5	NA	NA
12	1135735.55	1025206.87	581.0	10.5	570.5	9.5	571.5
13	1135708.25	1025226.03	578.3	8.5	569.8	8.0	570.3
14	1135681.54	1025273.79	579.1	6.5	572.6	6.0	573.1
15	1135640.95	1025261.78	575.4	5	570.4	Not Observed	NA
16	1135638.99	1025221.60	575.5	4	571.5	Not Observed	NA
17	1135631.24	1025191.14	576.3	4.5	571.8	4.0	572.3
18	1135609.19	1025162.83	580.6	9.5	571.1	8.0	572.6
19	1135758.86	1025232.11	581.5	10.5	571.0	Not Observed	NA
20	1135775.12	1025188.15	583.4	15	568.4	14.0	569.4
21	1135825.83	1025181.70	583.4	Not Reached	Not Reached	Not Observed	NA
22	1135797.67	1025223.29	583.4	19	564.4	12.0	571.4
23	1135778.28	1025147.66	583.7	Not Reached	Not Reached	18.0	565.7
24	1135798.63	1025266.44	581.7	14.5	567.2	12.0	569.7
25	1135844.64	1025257.99	582.6	22	560.6	20.0	562.6
26	1135780.18	1025299.26	580.6	15	565.6	12.0	568.6
27	1135736.98	1025277.49	580.2	10	570.2	9.5	570.7

Notes:
ftbg = feet below grade
NA = not applicable
NAD83 Datum used for Northing and Easting
Elevations are above mean sea level

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 3
Soil Analytical Data
Volatile Organic Compounds
Test Pit Samples

Sample Point				E4-TD-1	LNAPL-12	LNAPL-13	LNAPL-17	LNAPL-19*	LNAPL-20*	LNAPL-21*	LNAPL-22*	LNAPL-24
Location				TRACT II	TRACT I	TRACT I	TRACT II	TRACT I	TRACT I	TRACT I	TRACT I	TRACT I
SCO Comparison Type	**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Restricted Residential	**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Commercial		Restricted Residential	Commercial	Commercial	Restricted Residential	Commercial	Commercial	Commercial	Commercial	Commercial
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Depth (ftbg)				Composite	10'	8.5'	4.5'	10-10.5'	14-15'	8-10'	14-15'	14-14.5'
Sample Date				2/10/2015	4/23/2015	4/23/2015	4/23/2015	4/24/2015*	4/24/2015*	4/24/2015*	4/24/2015*	4/27/2015
Photoionization Detector (ppmV)				NC	3.8	26.4	48.6	52.1	28.6	24.6	11.6	40.1
CAS #	Volatile Organic Compounds via 8260C (µg/kg)											
95-63-6	1,2,4 TRIMETHYLBENZENE	*52,000*	*190,000*	560	ND<9.87	ND<6.94	14.2	ND<8.16	ND<9.64	ND<8.18	ND<10.9	8.87
108-67-8	1,3,5 TRIMETHYLBENZENE	*52,000*	*190,000*	140	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
71-43-2	BENZENE	*4,800*	*44,000*	82	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
100-41-4	ETHYLBENZENE	*41,000*	*390,000*	140	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
98-82-8	ISOPROPYLBENZENE	*NS*	*NS*	62	ND<9.87	ND<6.94	36	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
1330-20-7	XYLENES, TOTAL	*100,000*	*500,000*	610	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
1634-04-4	METHYL TERT-BUTYL ETHER	*100,000*	*500,000*	ND<81	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
91-20-3	NAPHTHALENE	*100,000*	*500,000*	3800	ND<24.7	ND<17.4	ND<22.0	ND<20.4	ND<24.1	ND<20.5	ND<27.3	ND<21.4
104-51-8	n-BUTYLBENZENE	*100,000*	*500,000*	210	ND<9.87	14.3	81.5	10.5	ND<9.64	ND<8.18	ND<10.9	10.6
103-65-1	n-PROPYLBENZENE	*100,000*	*500,000*	160	ND<9.87	ND<6.94	36.9	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
99-87-6	p-ISOPROPYLTOLUENE	*NS*	*NS*	62	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
135-98-8	sec-BUTYLBENZENE	*100,000*	*500,000*	120	ND<9.87	7.78	50.7	10.2	9.85	ND<8.18	ND<10.9	ND<8.55
98-06-6	tert-BUTYLBENZENE	*100,000*	*500,000*	ND<81	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
108-88-3	TOLUENE	*100,000*	*500,000*	83	ND<9.87	ND<6.94	ND<8.79	ND<8.16	ND<9.64	ND<8.18	ND<10.9	ND<8.55
Total VOCs (ug/kg)				6,029	ND	22.1	219	20.7	9.9	ND	ND	19.5

Notes:
ND = below laboratory detection limits
NA = Not Analyzed
NC = Not Collected
ftbg = feet below grade
ppmV = parts-per-million by volume
µg/kg = micrograms per kilogram
CAS = Chemical Abstracts Services
SCO = Soil Cleanup Objective
*Samples LNAPL-19, LNAPL-20, LNAPL-21 and LNAPL-22 were logged on the lab chain of custody as being collected in 4/23/15; however they were collected on 4/24/15
**Title 6 of the Official Compilation of New York Codes, Rules and Regulations Part 375, Restricted Use Soil Cleanup Objectives for Residential Use. (micrograms per killiogram by volume)
NS=Not Specified by 6 NYCRR Part 375

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 3
Soil Analytical Data
Volatile Organic Compounds
Test Pit Samples

Sample Point				LNAPL-26	LNAPL-1	LNAPL-2	LNAPL-9
Location				TRACT I	TRACT II	TRACT II	TRACT II
SCO Comparison Type		**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Restricted Residential	**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Commercial	Commercial	Restricted Residential	Restricted Residential	Restricted Residential
Sample Type				SOIL	SOIL	SOIL	SOIL
Depth (ftbg)				14-15'	4-5'	3-5'	6-8'
Sample Date				4/27/2014	5/19/2015	5/19/2015	5/19/2015
Photoionization Detector (ppmV)				31.8	22.3	1.6	0.9
CAS #	Volatile Organic Compounds via 8260C (µg/kg)						
95-63-6	1,2,4 TRIMETHYLBENZENE	*52,000*	*190,000*	24.4	ND<65.0	ND<9.44	ND<7.48
108-67-8	1,3,5 TRIMETHYLBENZENE	*52,000*	*190,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
71-43-2	BENZENE	*4,800*	*44,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
100-41-4	ETHYLBENZENE	*41,000*	*390,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
98-82-8	ISOPROPYLBENZENE	*NS*	*NS*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
1330-20-7	XYLENES, TOTAL	*100,000*	*500,000*	8.63	68.8	ND<9.44	ND<7.48
1634-04-4	METHYL TERT-BUTYL ETHER	*100,000*	*500,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
91-20-3	NAPHTHALENE	*100,000*	*500,000*	ND<18.9	1,430	ND<23.6	ND<18.7
104-51-8	n-BUTYLBENZENE	*100,000*	*500,000*	8.79	122	ND<9.44	ND<7.48
103-65-1	n-PROPYLBENZENE	*100,000*	*500,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
99-87-6	p-ISOPROPYLTOLUENE	*NS*	*NS*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
135-98-8	sec-BUTYLBENZENE	*100,000*	*500,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
98-06-6	tert-BUTYLBENZENE	*100,000*	*500,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
108-88-3	TOLUENE	*100,000*	*500,000*	ND<7.55	ND<65.0	ND<9.44	ND<7.48
Total VOCs (ug/kg)				41.8	1,621	ND	ND

Notes:
ND = below laboratory detection limits
NA = Not Analyzed
NC = Not Collected
ftbg = feet below grade
ppmV = parts-per-million by volume
µg/kg = micrograms per kilogram
CAS = Chemical Abstracts Services
SCO = Soil Cleanup Objective
*Samples LNAPL-19, LNAPL-20, LNAPL-21 and LNAPL-22 were logged on the lab chain of custod
**Title 6 of the Official Compilation of New York Codes, Rules and Regulations Part 375, Restricted
NS=Not Specified by 6 NYCRR Part 375

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 4
Soil Analytical Data
Semi-Volatile Organic Compounds
Test Pit Samples

Sample Point			E4-TD1	LNAPL-12	LNAPL-13	LNAPL-17	LNAPL-19*	LNAPL-20*	LNAPL-21*	LNAPL-22*	LNAPL-24	LNAPL-26	LNAPL-1	LNAPL-2	LNAPL-9
Location			TRACT II	TRACT I	TRACT I	TRACT II	TRACT I	TRACT I	TRACT I	TRACT I	TRACT I	TRACT I	TRACT II	TRACT II	TRACT II
SCO Comparison Type	**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Restricted Residential	**6 NYCRR Part 375-6.8(b) Restricted Use SCOs, Commercial	Restricted Residential	Commercial	Commercial	Restricted Residential	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Restricted Residential	Restricted Residential	Restricted Residential
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Depth (ftbg)			Composite	10'	8.5'	4.5'	10-10.5'	14-15'	8-10'	14-15'	14-14.5'	14-15'	4-5'	3-5'	6-8'
Sample Date			2/10/2015	4/23/2015	4/23/2015	4/23/2015	4/24/2015*	4/24/2015*	4/24/2015*	4/24/2015*	4/27/2015	4/27/2014	5/19/2015	5/19/2015	5/19/2015
Photoionization Detector (ppmV)			NC	3.8	26.4	48.6	52.1	28.6	24.6	11.6	40.1	31.8	22.3	1.6	0.9
CAS #	**Semi-Volatile Organic Compounds via 8270D (µg/kg)**														
83-32-9	ACENAPHTHENE	*100,000*	*500,000*	7,700	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	351	ND<324	ND<323	427	646	479
208-96-8	ACENAPHTHYLENE	*100,000*	*500,000*	4,100	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
120-12-7	ANTHRACENE	*100,000*	*500,000*	6,700	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	316	335	ND<311
56-55-3	BENZO(A)ANTHRACENE	*1,000*	*5,600*	ND<12,000	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	431	ND<311
50-32-8	BENZO(A)PYRENE	*1,000*	*1,000*	**2,300**	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
205-99-2	BENZO(B)FLUORANTHENE	*1,000*	*5,600*	**2,500**	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
191-24-2	BENZO(G,H,I)PERYLENE	*100,000*	*500,000*	1,400	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
207-08-9	BENZO(K)FLUORANTHENE	*3,900*	*5,600*	2,500	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
218-01-9	CHRYSENE	*3,900*	*5,600*	**4,800**	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	446	ND<311
53-70-3	DIBENZ(A,H)ANTHRACENE	*330*	*560*	ND<12,000	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
206-44-0	FLUORANTHENE	*100,000*	*500,000*	6,200	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	1,040	ND<311
86-73-7	FLUORENE	*100,000*	*500,000*	7,900	ND<291	ND<308	416	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	407	843	ND<311
193-39-5	INDENO(1,2,3-C,D)PYRENE	*500*	*5,600*	ND<12,000	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
91-20-3	NAPHTHALENE	*100,000*	*500,000*	2,400	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	ND<334	ND<311
85-01-8	PHENANTHRENE	*100,000*	*500,000*	21,000	ND<291	ND<308	943	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	1,100	544	ND<311
129-00-0	PYRENE	*100,000*	*500,000*	8,600	ND<291	ND<308	ND<305	ND<357	ND<317	ND<345	ND<314	ND<324	ND<323	ND<304	1,240	ND<311
Total SVOCs (µg/kg)				78,100	ND	ND	1,359	ND	ND	ND	351	ND	ND	2,250	5,525	479

Notes:
ND = below laboratory detection limits
NA = Not Analyzed
NC = Not Collected
ftbg = feet below grade
ppmV = parts-per-million by volume
µg/kg = micrograms per kilogram
CAS = Chemical Abstracts Services
SCO = Soil Cleanup Objective
*Samples LNAPL-19, LNAPL-20, LNAPL-21 and LNAPL-22 were logged on the lab chain of custody as being collected in 4/23/15; however they were collected on 4/24/15
**Title 6 of the Official Compilation of New York Codes, Rules and Regulations Part 375, Restricted Use Soil Cleanup Objectives for Residential Use. (micrograms per killiogram by volume)
NS=Not Specified by 6 NYCRR Part 375

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 5
Groundwater Analytical Data
Volatile Organic Compounds
Groundwater Samples

Monitoring Well	Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-propylbenzene	p-isopropyltoluene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	sec-butylbenzene	naphthalene	Methyl-tert-butyl-ether (MTBE)	tert-butylbenzene	Total VOCs (µg/L)
NYSDEC TOGS 1.1.1 Groundwater Standards (ug/L)		**1**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**10**	**10**	**5**	**NA**
LNAPL-19	4/27/2015	ND<0.700	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<2.00	ND<5.00	ND<2.00	ND<2.00	ND<5.00

Notes:
All data presented in micrograms per Liter (ug/L).
ND = None detected above laboratory limit indicated.
Bold values indicate exceedence of Guidance Values.
NA = Not Applicable
TOGS 1.1.1= Technical & Operational Guidance Series
VOC= Volatile Organic Compound

Tract I and II Highland Avenue Sites
3001 Highland Avenue
Niagara Falls, New York

Table 6
Groundwater Analytical Data
Semi-Volatile Organic Compounds
Groundwater Samples

Monitoring Well	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzon(a)pyrene	Benzo(b)flouranthene	Benzo(g,h,i)perylene	Benzo(k)flouranthene	Chrysene	dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total SVOCs (µg/L)
NYSDEC TOGS 1.1.1 Groundwater Standards (ug/L)		**20**	**NA**	**50**	**0.002**	**0.002**	**0.002**	**NA**	**0.002**	**0.002**	**NA**	**50**	**50**	**0.002**	**10**	**50**	**50**	**NA**
LNAPL-19	4/27/2015	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0	ND<10.0

Notes:
All data presented in micrograms per Liter (ug/L).
ND = None detected above laboratory limit indicated.
Bold values indicate exceedence of Guidance Values.
NA = Not Applicable
TOGS 1.1.1= Technical & Operational Guidance Series
SVOC= Semi-Volatile Organic Compound

APPENDIX A

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-75576-1
Client Project/Site: Niagara Falls site - Tract II

For:
AMEC Foster Wheeler E & I, Inc
800 North Bell Avenue, Suite 200
Pittsburgh, Pennsylvania 15106

Attn: Rob Crowley

Joseph V. Giacomazza

Authorized for release by:
2/27/2015 9:40:35 AM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-75576-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-75576-1

Receipt
The samples were received on 2/18/2015 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5º C.

Except:
Method(s) 1311: The following sample was collected in an improper container: PM-DISP2 (480-75576-2). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC/MS VOA
Method(s) 8260C: The following sample(s) was diluted due to the nature of the TCLP matrix: (480-75576-1 MS), (480-75576-1 MSD), (LB 480-227522/1-A), PM-DISP1 (480-75576-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for batch 228007 recovered outside control limits for the following analytes: 1,1 Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 228007 recovered above the upper control limit for 1,1 Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-228007/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: PM-DISP2 (480-75576-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 227638 recovered above the upper control limit for 2,4-Dinotrotoluenre. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-227638/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following samples required dilution due to the matrix effects and are reported as elevated non-detections for all target analytes (Aroclors) ; PM-DISP1 (480-75576-1). The reported values represent the lowest limit that can be ascertained given the sample composition.

Method(s) 8082A: The following sample required a dilution due to the matrix effects and is reported as elevated non-detections for all target analytes (Aroclors) ; PM-DISP2 (480-75576-2). The reported values represent the lowest limit that can be ascertained given the sample composition.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-227836-30) recovered above the upper control limit for total lead. The sample(s) (480-75576-1 MS), (480-75576-1 MSD), (480-75576-1 PDS), (LCS 480-227662/3-A), (MB 480-227662/2-A), PM-DISP1 (480-75576-1) associated with this CCVL were either ND <or> less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The TCLP Leachate Blank for preparation batch 227662 contained total barium above the reporting limit (RL). The associated sample(s) PM-DISP1 (480-75576-1) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 480-75576-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: PM-DISP2 (480-75576-2).

Method(s) 9040C: This sample was a mixed matrix sample that consisted of a layer of oil upon a layer of water. The water layer was decanted and tested for pH. The oil layer was not analyzed as it would have damaged the instrument. PM-DISP2 (480-75576-2)

Method(s) 9045C, 9045D: The following sample(s) was received outside of holding time: PM-DISP1 (480-75576-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 227438.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 227666.

Method(s) 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: PM-DISP2 (480-75576-2).

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 228002.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Client Sample ID: PM-DISP1 — Lab Sample ID: 480-75576-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.2	B	0.0020		mg/L	1		6010C	TCLP
Cadmium	0.0092		0.0020		mg/L	1		6010C	TCLP
Lead	0.26	^	0.010		mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0		Degrees F	1		1010A	Total/NA
pH	8.10	HF	0.100		SU	1		9045D	Total/NA

Client Sample ID: PM-DISP2 — Lab Sample ID: 480-75576-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0038	J	0.0050	0.0013	mg/L	1		8260C	TCLP
Barium	0.078		0.0020		mg/L	1		6010C	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0		Degrees F	1		1010A	Total/NA
pH	7.58	HF	0.100		SU	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PM-DISP1
Date Collected: 02/18/15 12:00
Date Received: 02/18/15 17:00

Lab Sample ID: 480-75576-1
Matrix: Solid

Method: 8260C - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/21/15 06:07	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/21/15 06:07	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/21/15 06:07	10
Chloroform	ND		0.010	0.0034	mg/L			02/21/15 06:07	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/21/15 06:07	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/21/15 06:07	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/21/15 06:07	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/21/15 06:07	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/21/15 06:07	10
Vinyl chloride	ND		0.010	0.0090	mg/L			02/21/15 06:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*02/21/15 06:07*	*10*
Toluene-d8 (Surr)	*98*		*71 - 126*		*02/21/15 06:07*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*02/21/15 06:07*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		02/20/15 09:49	02/23/15 16:24	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		02/20/15 09:49	02/23/15 16:24	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		02/20/15 09:49	02/23/15 16:24	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		02/20/15 09:49	02/23/15 16:24	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		02/20/15 09:49	02/23/15 16:24	1
3-Methylphenol	ND		0.010	0.00040	mg/L		02/20/15 09:49	02/23/15 16:24	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		02/20/15 09:49	02/23/15 16:24	1
4-Methylphenol	ND		0.010	0.00036	mg/L		02/20/15 09:49	02/23/15 16:24	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		02/20/15 09:49	02/23/15 16:24	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		02/20/15 09:49	02/23/15 16:24	1
Pyridine	ND		0.025	0.00041	mg/L		02/20/15 09:49	02/23/15 16:24	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		02/20/15 09:49	02/23/15 16:24	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		02/20/15 09:49	02/23/15 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*52 - 132*	*02/20/15 09:49*	*02/23/15 16:24*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*02/20/15 09:49*	*02/23/15 16:24*	*1*
2-Fluorophenol	*52*		*20 - 120*	*02/20/15 09:49*	*02/23/15 16:24*	*1*
Nitrobenzene-d5	*84*		*46 - 120*	*02/20/15 09:49*	*02/23/15 16:24*	*1*
p-Terphenyl-d14	*107*		*67 - 150*	*02/20/15 09:49*	*02/23/15 16:24*	*1*
Phenol-d5	*35*		*16 - 120*	*02/20/15 09:49*	*02/23/15 16:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		520	100	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1221	ND		520	100	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1232	ND		520	100	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1242	ND		520	100	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1248	ND		520	100	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1254	ND		520	240	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2
PCB-1260	ND		520	240	ug/Kg	☼	02/19/15 12:13	02/20/15 14:58	2

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Client Sample ID: PM-DISP1
Date Collected: 02/18/15 12:00
Date Received: 02/18/15 17:00

Lab Sample ID: 480-75576-1
Matrix: Solid
Percent Solids: 88.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*47 - 176*	*02/19/15 12:13*	*02/20/15 14:58*	*2*
Tetrachloro-m-xylene	*86*		*46 - 175*	*02/19/15 12:13*	*02/20/15 14:58*	*2*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		02/20/15 10:05	02/21/15 11:00	1
Barium	**1.2**	**B**	0.0020		mg/L		02/20/15 10:05	02/21/15 11:00	1
Cadmium	**0.0092**		0.0020		mg/L		02/20/15 10:05	02/21/15 11:00	1
Chromium	ND		0.0040		mg/L		02/20/15 10:05	02/21/15 11:00	1
Lead	**0.26**	**^**	0.010		mg/L		02/20/15 10:05	02/21/15 11:00	1
Selenium	ND		0.025		mg/L		02/20/15 10:05	02/21/15 11:00	1
Silver	ND		0.0060		mg/L		02/20/15 10:05	02/21/15 11:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/20/15 09:55	02/20/15 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10		mg/Kg		02/24/15 03:15	02/24/15 12:01	1
Sulfide, Reactive	ND		10		mg/Kg		02/24/15 03:15	02/24/15 10:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0		Degrees F			02/20/15 17:05	1
pH	**8.10**	**HF**	0.100		SU			02/23/15 12:55	1

Client Sample ID: PM-DISP2
Date Collected: 02/18/15 12:10
Date Received: 02/18/15 17:00

Lab Sample ID: 480-75576-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			02/24/15 12:55	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/24/15 12:55	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/24/15 12:55	1
Chloroform	ND		0.0010	0.00034	mg/L			02/24/15 12:55	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/24/15 12:55	1
1,1-Dichloroethene	ND	*	0.0010	0.00029	mg/L			02/24/15 12:55	1
2-Butanone (MEK)	**0.0038**	**J**	0.0050	0.0013	mg/L			02/24/15 12:55	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/24/15 12:55	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/24/15 12:55	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/24/15 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*		*02/24/15 12:55*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*02/24/15 12:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/24/15 12:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.10	0.0046	mg/L		02/19/15 09:46	02/20/15 12:11	10
2,4-Dinitrotoluene	ND		0.050	0.0045	mg/L		02/19/15 09:46	02/20/15 12:11	10
Hexachlorobenzene	ND		0.050	0.0051	mg/L		02/19/15 09:46	02/20/15 12:11	10
Hexachlorobutadiene	ND		0.050	0.0068	mg/L		02/19/15 09:46	02/20/15 12:11	10
Hexachloroethane	ND		0.050	0.0059	mg/L		02/19/15 09:46	02/20/15 12:11	10
3-Methylphenol	ND		0.10	0.0040	mg/L		02/19/15 09:46	02/20/15 12:11	10
2-Methylphenol	ND		0.050	0.0040	mg/L		02/19/15 09:46	02/20/15 12:11	10
4-Methylphenol	ND		0.10	0.0036	mg/L		02/19/15 09:46	02/20/15 12:11	10
Nitrobenzene	ND		0.050	0.0029	mg/L		02/19/15 09:46	02/20/15 12:11	10
Pentachlorophenol	ND		0.10	0.022	mg/L		02/19/15 09:46	02/20/15 12:11	10
Pyridine	ND		0.25	0.0041	mg/L		02/19/15 09:46	02/20/15 12:11	10
2,4,5-Trichlorophenol	ND		0.050	0.0048	mg/L		02/19/15 09:46	02/20/15 12:11	10
2,4,6-Trichlorophenol	ND		0.050	0.0061	mg/L		02/19/15 09:46	02/20/15 12:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*52 - 132*	*02/19/15 09:46*	*02/20/15 12:11*	*10*
2-Fluorobiphenyl	*106*		*48 - 120*	*02/19/15 09:46*	*02/20/15 12:11*	*10*
2-Fluorophenol	*50*		*20 - 120*	*02/19/15 09:46*	*02/20/15 12:11*	*10*
Nitrobenzene-d5	*93*		*46 - 120*	*02/19/15 09:46*	*02/20/15 12:11*	*10*
p-Terphenyl-d14	*101*		*67 - 150*	*02/19/15 09:46*	*02/20/15 12:11*	*10*
Phenol-d5	*32*		*16 - 120*	*02/19/15 09:46*	*02/20/15 12:11*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.5	0.88	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1221	ND		2.5	0.88	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1232	ND		2.5	0.88	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1242	ND		2.5	0.88	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1248	ND		2.5	0.88	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1254	ND		2.5	1.3	ug/L		02/24/15 09:24	02/24/15 16:30	2
PCB-1260	ND		2.5	1.3	ug/L		02/24/15 09:24	02/24/15 16:30	2

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Client Sample ID: PM-DISP2
Date Collected: 02/18/15 12:10
Date Received: 02/18/15 17:00

Lab Sample ID: 480-75576-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*19 - 126*	*02/24/15 09:24*	*02/24/15 16:30*	*2*
Tetrachloro-m-xylene	*41*		*23 - 127*	*02/24/15 09:24*	*02/24/15 16:30*	*2*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		02/19/15 11:45	02/20/15 10:26	1
Barium	**0.078**		0.0020		mg/L		02/19/15 11:45	02/20/15 10:26	1
Cadmium	ND		0.0020		mg/L		02/19/15 11:45	02/20/15 10:26	1
Chromium	ND		0.0040		mg/L		02/19/15 11:45	02/20/15 10:26	1
Lead	ND		0.010		mg/L		02/19/15 11:45	02/20/15 10:26	1
Selenium	ND		0.025		mg/L		02/19/15 11:45	02/20/15 10:26	1
Silver	ND		0.0060		mg/L		02/19/15 11:45	02/20/15 10:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/19/15 12:25	02/19/15 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0		mg/L		02/24/15 03:15	02/24/15 11:58	1
Sulfide, Reactive	ND		10.0		mg/L		02/24/15 03:15	02/24/15 10:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0		Degrees F			02/20/15 17:05	1
pH	**7.58**	**HF**	0.100		SU			02/20/15 12:40	1

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
LCS 480-227775/4	Lab Control Sample	102	98	98
MB 480-227775/6	Method Blank	102	96	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-75576-1	PM-DISP1	107	98	96
480-75576-1 MS	PM-DISP1	107	97	97
480-75576-1 MSD	PM-DISP1	104	96	96
LB 480-227522/1-A	Method Blank	108	101	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
LCS 480-228007/4	Lab Control Sample	86	93	94
MB 480-228007/6	Method Blank	86	96	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-75576-2	PM-DISP2	89	94	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
LCS 480-227666/2-A	Lab Control Sample	103	92	54	88	103	40
LCSD 480-227666/3-A	Lab Control Sample Dup	101	93	58	90	106	41
MB 480-227666/1-A	Method Blank	70	71	45	67	95	32

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
480-75576-1	PM-DISP1	97	88	52	84	107	35
LB 480-227516/1-D	Method Blank	90	87	54	85	105	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
LCS 480-227438/2-A	Lab Control Sample	101	92	57	87	101	41
LCSD 480-227438/3-A	Lab Control Sample Dup	104	96	57	94	106	42
MB 480-227438/1-A	Method Blank	98	91	55	91	110	39

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Surrogate Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
480-75576-2	PM-DISP2	91	106	50	93	101	32

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(47-176)	(46-175)
480-75576-1	PM-DISP1	112	86
LCS 480-227507/2-A	Lab Control Sample	133	119
MB 480-227507/1-A	Method Blank	120	106

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(19-126)	(23-127)
480-75576-2	PM-DISP2	81	41
LCS 480-228002/2-A	Lab Control Sample	53	58
LCSD 480-228002/3-A	Lab Control Sample Dup	67	75
MB 480-228002/1-A	Method Blank	84	73

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260C - TCLP Volatiles

Lab Sample ID: MB 480-227775/6
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			02/20/15 22:12	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/20/15 22:12	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/20/15 22:12	1
Chloroform	ND		0.0010	0.00034	mg/L			02/20/15 22:12	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/20/15 22:12	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			02/20/15 22:12	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			02/20/15 22:12	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/20/15 22:12	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/20/15 22:12	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/20/15 22:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*02/20/15 22:12*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*02/20/15 22:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/20/15 22:12*	*1*

Lab Sample ID: LCS 480-227775/4
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0242		mg/L		97	71 - 124
Chlorobenzene	0.0250	0.0245		mg/L		98	72 - 120
1,2-Dichloroethane	0.0250	0.0247		mg/L		99	75 - 127
1,1-Dichloroethene	0.0250	0.0224		mg/L		90	58 - 121
Tetrachloroethene	0.0250	0.0255		mg/L		102	74 - 122
Trichloroethene	0.0250	0.0246		mg/L		98	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*
Toluene-d8 (Surr)	*98*		*71 - 126*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*

Lab Sample ID: LB 480-227522/1-A
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			02/21/15 05:44	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			02/21/15 05:44	10
Chlorobenzene	ND		0.010	0.0075	mg/L			02/21/15 05:44	10
Chloroform	ND		0.010	0.0034	mg/L			02/21/15 05:44	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			02/21/15 05:44	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			02/21/15 05:44	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			02/21/15 05:44	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			02/21/15 05:44	10
Trichloroethene	ND		0.010	0.0046	mg/L			02/21/15 05:44	10

Method: 8260C - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-227522/1-A
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			02/21/15 05:44	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*02/21/15 05:44*	*10*
Toluene-d8 (Surr)	*101*		*71 - 126*		*02/21/15 05:44*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*02/21/15 05:44*	*10*

Lab Sample ID: 480-75576-1 MS
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: PM-DISP1
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.250	0.259		mg/L		104	71 - 124
Chlorobenzene	ND		0.250	0.248		mg/L		99	72 - 120
1,2-Dichloroethane	ND		0.250	0.265		mg/L		106	75 - 127
1,1-Dichloroethene	ND		0.250	0.262		mg/L		105	58 - 121
Tetrachloroethene	ND		0.250	0.265		mg/L		106	74 - 122
Trichloroethene	ND		0.250	0.255		mg/L		102	74 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*
Toluene-d8 (Surr)	*97*		*71 - 126*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*

Lab Sample ID: 480-75576-1 MSD
Matrix: Solid
Analysis Batch: 227775

Client Sample ID: PM-DISP1
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.250	0.245		mg/L		98	71 - 124	5	13
Chlorobenzene	ND		0.250	0.239		mg/L		96	72 - 120	4	25
1,2-Dichloroethane	ND		0.250	0.252		mg/L		101	75 - 127	5	20
1,1-Dichloroethene	ND		0.250	0.239		mg/L		96	58 - 121	9	16
Tetrachloroethene	ND		0.250	0.253		mg/L		101	74 - 122	5	20
Trichloroethene	ND		0.250	0.250		mg/L		100	74 - 123	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*
Toluene-d8 (Surr)	*96*		*71 - 126*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-228007/6
Matrix: Water
Analysis Batch: 228007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			02/24/15 12:00	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			02/24/15 12:00	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			02/24/15 12:00	1
Chloroform	ND		0.0010	0.00034	mg/L			02/24/15 12:00	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			02/24/15 12:00	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			02/24/15 12:00	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			02/24/15 12:00	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			02/24/15 12:00	1
Trichloroethene	ND		0.0010	0.00046	mg/L			02/24/15 12:00	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			02/24/15 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*66 - 137*		*02/24/15 12:00*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*02/24/15 12:00*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*02/24/15 12:00*	*1*

Lab Sample ID: LCS 480-228007/4
Matrix: Water
Analysis Batch: 228007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0261		mg/L		104	71 - 124
Chlorobenzene	0.0250	0.0245		mg/L		98	72 - 120
1,2-Dichloroethane	0.0250	0.0226		mg/L		90	75 - 127
1,1-Dichloroethene	0.0250	0.0382	*	mg/L		153	58 - 121
Tetrachloroethene	0.0250	0.0240		mg/L		96	74 - 122
Trichloroethene	0.0250	0.0271		mg/L		108	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*66 - 137*
Toluene-d8 (Surr)	*93*		*71 - 126*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-227438/1-A
Matrix: Water
Analysis Batch: 227638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		02/19/15 08:30	02/20/15 09:50	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		02/19/15 08:30	02/20/15 09:50	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		02/19/15 08:30	02/20/15 09:50	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		02/19/15 08:30	02/20/15 09:50	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		02/19/15 08:30	02/20/15 09:50	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		02/19/15 08:30	02/20/15 09:50	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		02/19/15 08:30	02/20/15 09:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-227438/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227638 — **Prep Batch: 227438**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		0.0025	0.000090	mg/L		02/19/15 08:30	02/20/15 09:50	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		02/19/15 08:30	02/20/15 09:50	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		02/19/15 08:30	02/20/15 09:50	1
Pyridine	ND		0.0063	0.00010	mg/L		02/19/15 08:30	02/20/15 09:50	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		02/19/15 08:30	02/20/15 09:50	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		02/19/15 08:30	02/20/15 09:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*52 - 132*	*02/19/15 08:30*	*02/20/15 09:50*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*02/19/15 08:30*	*02/20/15 09:50*	*1*
2-Fluorophenol	*55*		*20 - 120*	*02/19/15 08:30*	*02/20/15 09:50*	*1*
Nitrobenzene-d5	*91*		*46 - 120*	*02/19/15 08:30*	*02/20/15 09:50*	*1*
p-Terphenyl-d14	*110*		*67 - 150*	*02/19/15 08:30*	*02/20/15 09:50*	*1*
Phenol-d5	*39*		*16 - 120*	*02/19/15 08:30*	*02/20/15 09:50*	*1*

Lab Sample ID: LCS 480-227438/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227638 — **Prep Batch: 227438**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			0.0500	0.0333		mg/L		67	32 - 120		
2,4-Dinitrotoluene			0.0500	0.0502		mg/L		100	65 - 154		
Hexachloroethane			0.0500	0.0332		mg/L		66	14 - 101		
Pentachlorophenol			0.100	0.0908		mg/L		91	39 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*52 - 132*
2-Fluorobiphenyl	*92*		*48 - 120*
2-Fluorophenol	*57*		*20 - 120*
Nitrobenzene-d5	*87*		*46 - 120*
p-Terphenyl-d14	*101*		*67 - 150*
Phenol-d5	*41*		*16 - 120*

Lab Sample ID: LCSD 480-227438/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227638 — **Prep Batch: 227438**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0317		mg/L		63	32 - 120	5	36
2,4-Dinitrotoluene			0.0500	0.0545		mg/L		109	65 - 154	8	20
Hexachloroethane			0.0500	0.0316		mg/L		63	14 - 101	5	46
Pentachlorophenol			0.100	0.0948		mg/L		95	39 - 136	4	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*52 - 132*
2-Fluorobiphenyl	*96*		*48 - 120*
2-Fluorophenol	*57*		*20 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-227438/3-A
Matrix: Water
Analysis Batch: 227638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 227438

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	94		46 - 120
p-Terphenyl-d14	106		67 - 150
Phenol-d5	42		16 - 120

Lab Sample ID: MB 480-227666/1-A
Matrix: Solid
Analysis Batch: 227861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		02/20/15 09:49	02/23/15 14:48	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		02/20/15 09:49	02/23/15 14:48	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		02/20/15 09:49	02/23/15 14:48	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		02/20/15 09:49	02/23/15 14:48	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		02/20/15 09:49	02/23/15 14:48	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		02/20/15 09:49	02/23/15 14:48	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		02/20/15 09:49	02/23/15 14:48	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		02/20/15 09:49	02/23/15 14:48	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		02/20/15 09:49	02/23/15 14:48	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		02/20/15 09:49	02/23/15 14:48	1
Pyridine	ND		0.0063	0.00010	mg/L		02/20/15 09:49	02/23/15 14:48	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		02/20/15 09:49	02/23/15 14:48	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		02/20/15 09:49	02/23/15 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		52 - 132	02/20/15 09:49	02/23/15 14:48	1
2-Fluorobiphenyl	71		48 - 120	02/20/15 09:49	02/23/15 14:48	1
2-Fluorophenol	45		20 - 120	02/20/15 09:49	02/23/15 14:48	1
Nitrobenzene-d5	67		46 - 120	02/20/15 09:49	02/23/15 14:48	1
p-Terphenyl-d14	95		67 - 150	02/20/15 09:49	02/23/15 14:48	1
Phenol-d5	32		16 - 120	02/20/15 09:49	02/23/15 14:48	1

Lab Sample ID: LCS 480-227666/2-A
Matrix: Solid
Analysis Batch: 227861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0322		mg/L		64	32 - 120
2,4-Dinitrotoluene	0.0500	0.0503		mg/L		101	65 - 154
Hexachloroethane	0.0500	0.0310		mg/L		62	14 - 101
Pentachlorophenol	0.100	0.0900		mg/L		90	39 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	103		52 - 132
2-Fluorobiphenyl	92		48 - 120
2-Fluorophenol	54		20 - 120
Nitrobenzene-d5	88		46 - 120
p-Terphenyl-d14	103		67 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-227666/2-A
Matrix: Solid
Analysis Batch: 227861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227666

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	*40*		*16 - 120*

Lab Sample ID: LCSD 480-227666/3-A
Matrix: Solid
Analysis Batch: 227861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 227666

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0500	0.0307		mg/L		61	32 - 120	5	36
2,4-Dinitrotoluene			0.0500	0.0523		mg/L		105	65 - 154	4	20
Hexachloroethane			0.0500	0.0286		mg/L		57	14 - 101	8	46
Pentachlorophenol			0.100	0.0934		mg/L		93	39 - 136	4	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	*101*		*52 - 132*
2-Fluorobiphenyl	*93*		*48 - 120*
2-Fluorophenol	*58*		*20 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
p-Terphenyl-d14	*106*		*67 - 150*
Phenol-d5	*41*		*16 - 120*

Lab Sample ID: LB 480-227516/1-D
Matrix: Solid
Analysis Batch: 227861

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 227666

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		02/20/15 09:49	02/23/15 16:00	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		02/20/15 09:49	02/23/15 16:00	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		02/20/15 09:49	02/23/15 16:00	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		02/20/15 09:49	02/23/15 16:00	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		02/20/15 09:49	02/23/15 16:00	1
3-Methylphenol	ND		0.010	0.00040	mg/L		02/20/15 09:49	02/23/15 16:00	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		02/20/15 09:49	02/23/15 16:00	1
4-Methylphenol	ND		0.010	0.00036	mg/L		02/20/15 09:49	02/23/15 16:00	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		02/20/15 09:49	02/23/15 16:00	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		02/20/15 09:49	02/23/15 16:00	1
Pyridine	ND		0.025	0.00041	mg/L		02/20/15 09:49	02/23/15 16:00	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		02/20/15 09:49	02/23/15 16:00	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		02/20/15 09:49	02/23/15 16:00	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*90*		*52 - 132*	*02/20/15 09:49*	*02/23/15 16:00*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*02/20/15 09:49*	*02/23/15 16:00*	*1*
2-Fluorophenol	*54*		*20 - 120*	*02/20/15 09:49*	*02/23/15 16:00*	*1*
Nitrobenzene-d5	*85*		*46 - 120*	*02/20/15 09:49*	*02/23/15 16:00*	*1*
p-Terphenyl-d14	*105*		*67 - 150*	*02/20/15 09:49*	*02/23/15 16:00*	*1*
Phenol-d5	*37*		*16 - 120*	*02/20/15 09:49*	*02/23/15 16:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-227507/1-A
Matrix: Solid
Analysis Batch: 227665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		240	47	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1221	ND		240	47	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1232	ND		240	47	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1242	ND		240	47	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1248	ND		240	47	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1254	ND		240	110	ug/Kg		02/19/15 12:08	02/20/15 11:31	1
PCB-1260	ND		240	110	ug/Kg		02/19/15 12:08	02/20/15 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*120*		*47 - 176*	*02/19/15 12:08*	*02/20/15 11:31*	*1*
Tetrachloro-m-xylene	*106*		*46 - 175*	*02/19/15 12:08*	*02/20/15 11:31*	*1*

Lab Sample ID: LCS 480-227507/2-A
Matrix: Solid
Analysis Batch: 227665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2130	2750		ug/Kg		129	51 - 185
PCB-1260	2130	3030		ug/Kg		142	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*133*		*47 - 176*
Tetrachloro-m-xylene	*119*		*46 - 175*

Lab Sample ID: MB 480-228002/1-A
Matrix: Water
Analysis Batch: 228070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1221	ND		0.50	0.18	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1232	ND		0.50	0.18	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1242	ND		0.50	0.18	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1248	ND		0.50	0.18	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1254	ND		0.50	0.25	ug/L		02/24/15 09:24	02/24/15 15:46	1
PCB-1260	ND		0.50	0.25	ug/L		02/24/15 09:24	02/24/15 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*19 - 126*	*02/24/15 09:24*	*02/24/15 15:46*	*1*
Tetrachloro-m-xylene	*73*		*23 - 127*	*02/24/15 09:24*	*02/24/15 15:46*	*1*

Lab Sample ID: LCS 480-228002/2-A
Matrix: Water
Analysis Batch: 228070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	2.76		ug/L		69	51 - 137

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-228002/2-A
Matrix: Water
Analysis Batch: 228070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228002

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1260			4.00	2.70		ug/L		68	45 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*19 - 126*
Tetrachloro-m-xylene	*58*		*23 - 127*

Lab Sample ID: LCSD 480-228002/3-A
Matrix: Water
Analysis Batch: 228070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 228002

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	3.41		ug/L		85	51 - 137	21	50
PCB-1260			4.00	3.49		ug/L		87	45 - 139	26	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*19 - 126*
Tetrachloro-m-xylene	*75*		*23 - 127*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-227481/1-A
Matrix: Water
Analysis Batch: 227683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		02/19/15 11:45	02/20/15 10:21	1
Barium	ND		0.0020		mg/L		02/19/15 11:45	02/20/15 10:21	1
Cadmium	ND		0.0020		mg/L		02/19/15 11:45	02/20/15 10:21	1
Chromium	ND		0.0040		mg/L		02/19/15 11:45	02/20/15 10:21	1
Lead	ND		0.010		mg/L		02/19/15 11:45	02/20/15 10:21	1
Selenium	ND		0.025		mg/L		02/19/15 11:45	02/20/15 10:21	1
Silver	ND		0.0060		mg/L		02/19/15 11:45	02/20/15 10:21	1

Lab Sample ID: LCS 480-227481/2-A
Matrix: Water
Analysis Batch: 227683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227481

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			1.00	1.02		mg/L		102	80 - 120		
Barium			1.00	0.986		mg/L		99	80 - 120		
Cadmium			1.00	0.965		mg/L		97	80 - 120		
Chromium			1.00	1.05		mg/L		105	80 - 120		
Lead			1.00	0.959		mg/L		96	80 - 120		
Selenium			1.00	0.991		mg/L		99	80 - 120		
Silver			1.00	1.04		mg/L		104	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-227662/2-A
Matrix: Solid
Analysis Batch: 227836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		02/20/15 10:05	02/21/15 10:54	1
Barium	ND		0.0020		mg/L		02/20/15 10:05	02/21/15 10:54	1
Cadmium	ND		0.0020		mg/L		02/20/15 10:05	02/21/15 10:54	1
Chromium	ND		0.0040		mg/L		02/20/15 10:05	02/21/15 10:54	1
Lead	ND	^	0.010		mg/L		02/20/15 10:05	02/21/15 10:54	1
Selenium	ND		0.025		mg/L		02/20/15 10:05	02/21/15 10:54	1
Silver	ND		0.0060		mg/L		02/20/15 10:05	02/21/15 10:54	1

Lab Sample ID: LCS 480-227662/3-A
Matrix: Solid
Analysis Batch: 227836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.12		mg/L		112	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	1.04	^	mg/L		104	80 - 120
Selenium	1.00	1.18		mg/L		118	80 - 120
Silver	1.00	1.17		mg/L		117	80 - 120

Lab Sample ID: 480-75576-2 MS
Matrix: Water
Analysis Batch: 227683

Client Sample ID: PM-DISP2
Prep Type: TCLP
Prep Batch: 227481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.09		mg/L		109	75 - 125
Barium	0.078		1.00	1.07		mg/L		99	75 - 125
Cadmium	ND		1.00	0.999		mg/L		100	75 - 125
Chromium	ND		1.00	1.05		mg/L		105	75 - 125
Lead	ND		1.00	0.985		mg/L		98	75 - 125
Selenium	ND		1.00	1.04		mg/L		104	75 - 125
Silver	ND		1.00	1.07		mg/L		107	75 - 125

Lab Sample ID: 480-75576-2 MSD
Matrix: Water
Analysis Batch: 227683

Client Sample ID: PM-DISP2
Prep Type: TCLP
Prep Batch: 227481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.08		mg/L		108	75 - 125	1	20
Barium	0.078		1.00	1.06		mg/L		99	75 - 125	0	20
Cadmium	ND		1.00	0.995		mg/L		100	75 - 125	0	20
Chromium	ND		1.00	1.05		mg/L		105	75 - 125	1	20
Lead	ND		1.00	0.979		mg/L		98	75 - 125	1	20
Selenium	ND		1.00	1.04		mg/L		104	75 - 125	1	20
Silver	ND		1.00	1.06		mg/L		106	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 480-227516/1-C
Matrix: Solid
Analysis Batch: 227836

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 227662

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		02/20/15 10:05	02/21/15 10:43	1
Barium	0.0656		0.0020		mg/L		02/20/15 10:05	02/21/15 10:43	1
Cadmium	ND		0.0020		mg/L		02/20/15 10:05	02/21/15 10:43	1
Chromium	ND		0.0040		mg/L		02/20/15 10:05	02/21/15 10:43	1
Lead	ND		0.010		mg/L		02/20/15 10:05	02/21/15 10:43	1
Selenium	ND		0.025		mg/L		02/20/15 10:05	02/21/15 10:43	1
Silver	ND		0.0060		mg/L		02/20/15 10:05	02/21/15 10:43	1

Lab Sample ID: 480-75576-1 MS
Matrix: Solid
Analysis Batch: 227836

Client Sample ID: PM-DISP1
Prep Type: TCLP
Prep Batch: 227662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.12		mg/L		111	75 - 125
Barium	1.2	B	1.00	2.04		mg/L		86	75 - 125
Cadmium	0.0092		1.00	1.08		mg/L		107	75 - 125
Chromium	ND		1.00	0.938		mg/L		93	75 - 125
Lead	0.26	^	1.00	1.30	^	mg/L		103	75 - 125
Selenium	ND		1.00	1.15		mg/L		115	75 - 125
Silver	ND		1.00	1.15		mg/L		115	75 - 125

Lab Sample ID: 480-75576-1 MSD
Matrix: Solid
Analysis Batch: 227836

Client Sample ID: PM-DISP1
Prep Type: TCLP
Prep Batch: 227662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.14		mg/L		113	75 - 125	2	20
Barium	1.2	B	1.00	2.12		mg/L		94	75 - 125	4	20
Cadmium	0.0092		1.00	1.10		mg/L		109	75 - 125	2	20
Chromium	ND		1.00	0.949		mg/L		95	75 - 125	1	20
Lead	0.26	^	1.00	1.31	^	mg/L		104	75 - 125	1	20
Selenium	ND		1.00	1.18		mg/L		118	75 - 125	2	20
Silver	ND		1.00	1.17		mg/L		117	75 - 125	1	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-227661/2-A
Matrix: Solid
Analysis Batch: 227833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/20/15 09:55	02/20/15 13:08	1

Lab Sample ID: LCS 480-227661/3-A
Matrix: Solid
Analysis Batch: 227833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00657		mg/L		98	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 480-227516/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 227833 — **Prep Batch: 227661**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/20/15 09:55	02/20/15 13:07	1

Lab Sample ID: 480-75576-1 MS — **Client Sample ID: PM-DISP1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 227833 — **Prep Batch: 227661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00608		mg/L		91	80 - 120

Lab Sample ID: 480-75576-1 MSD — **Client Sample ID: PM-DISP1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 227833 — **Prep Batch: 227661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00600		mg/L		90	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-227508/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227564 — **Prep Batch: 227508**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/19/15 12:25	02/19/15 14:56	1

Lab Sample ID: LCS 480-227508/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227564 — **Prep Batch: 227508**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00663		mg/L		99	80 - 120

Lab Sample ID: 480-75576-2 MS — **Client Sample ID: PM-DISP2**
Matrix: Water — **Prep Type: TCLP**
Analysis Batch: 227564 — **Prep Batch: 227508**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00645		mg/L		97	80 - 120

Lab Sample ID: 480-75576-2 MSD — **Client Sample ID: PM-DISP2**
Matrix: Water — **Prep Type: TCLP**
Analysis Batch: 227564 — **Prep Batch: 227508**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00647		mg/L		97	80 - 120	0	20

Method: 1010A - Ignitability, Pensky-Martens Closed Cup Method

Lab Sample ID: LCS 480-227766/1
Matrix: Solid
Analysis Batch: 227766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	79.00		Degrees F		98	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-228004/1-A
Matrix: Solid
Analysis Batch: 228055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0		mg/L		02/24/15 03:15	02/24/15 11:56	1

Lab Sample ID: LCS 480-228004/2-A
Matrix: Solid
Analysis Batch: 228055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	433.8		mg/L		43	10 - 100

Lab Sample ID: 480-75576-2 DU
Matrix: Water
Analysis Batch: 228055

Client Sample ID: PM-DISP2
Prep Type: Total/NA
Prep Batch: 228004

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	ND		ND		mg/L		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-228003/1-A
Matrix: Solid
Analysis Batch: 228045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0		mg/L		02/24/15 03:15	02/24/15 10:50	1

Lab Sample ID: LCS 480-228003/2-A
Matrix: Solid
Analysis Batch: 228045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	821.5		mg/L		82	10 - 100

Lab Sample ID: 480-75576-2 DU
Matrix: Water
Analysis Batch: 228045

Client Sample ID: PM-DISP2
Prep Type: Total/NA
Prep Batch: 228003

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	ND		ND		mg/L		NC	20

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Method: 9040C - pH

Lab Sample ID: LCS 480-227702/1
Matrix: Water
Analysis Batch: 227702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99 - 101

Method: 9045D - pH

Lab Sample ID: LCS 480-227916/1
Matrix: Solid
Analysis Batch: 227916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99 - 101

GC/MS VOA

Leach Batch: 227522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	1311	
480-75576-1 MS	PM-DISP1	TCLP	Solid	1311	
480-75576-1 MSD	PM-DISP1	TCLP	Solid	1311	
LB 480-227522/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 227775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	8260C	227522
480-75576-1 MS	PM-DISP1	TCLP	Solid	8260C	227522
480-75576-1 MSD	PM-DISP1	TCLP	Solid	8260C	227522
LB 480-227522/1-A	Method Blank	TCLP	Solid	8260C	227522
LCS 480-227775/4	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-227775/6	Method Blank	Total/NA	Solid	8260C	

Leach Batch: 227979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	1311	

Analysis Batch: 228007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	8260C	227979
LCS 480-228007/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-228007/6	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 227438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	3510C	227451
LCS 480-227438/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-227438/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-227438/1-A	Method Blank	Total/NA	Water	3510C	

Leach Batch: 227451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	1311	

Leach Batch: 227516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	1311	
LB 480-227516/1-D	Method Blank	TCLP	Solid	1311	

Analysis Batch: 227638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	8270D	227438
LCS 480-227438/2-A	Lab Control Sample	Total/NA	Water	8270D	227438
LCSD 480-227438/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	227438
MB 480-227438/1-A	Method Blank	Total/NA	Water	8270D	227438

GC/MS Semi VOA (Continued)

Prep Batch: 227666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	3510C	227516
LB 480-227516/1-D	Method Blank	TCLP	Solid	3510C	227516
LCS 480-227666/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-227666/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	
MB 480-227666/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 227861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	8270D	227666
LB 480-227516/1-D	Method Blank	TCLP	Solid	8270D	227666
LCS 480-227666/2-A	Lab Control Sample	Total/NA	Solid	8270D	227666
LCSD 480-227666/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	227666
MB 480-227666/1-A	Method Blank	Total/NA	Solid	8270D	227666

GC Semi VOA

Prep Batch: 227507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	3550C	
LCS 480-227507/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-227507/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 227665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	8082A	227507
LCS 480-227507/2-A	Lab Control Sample	Total/NA	Solid	8082A	227507
MB 480-227507/1-A	Method Blank	Total/NA	Solid	8082A	227507

Prep Batch: 228002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	Total/NA	Water	3510C	
LCS 480-228002/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-228002/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-228002/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 228070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	Total/NA	Water	8082A	228002
LCS 480-228002/2-A	Lab Control Sample	Total/NA	Water	8082A	228002
LCSD 480-228002/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	228002
MB 480-228002/1-A	Method Blank	Total/NA	Water	8082A	228002

Metals

Leach Batch: 227451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	1311	
480-75576-2 MS	PM-DISP2	TCLP	Water	1311	
480-75576-2 MSD	PM-DISP2	TCLP	Water	1311	

Metals (Continued)

Prep Batch: 227481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	3010A	227451
480-75576-2 MS	PM-DISP2	TCLP	Water	3010A	227451
480-75576-2 MSD	PM-DISP2	TCLP	Water	3010A	227451
LCS 480-227481/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 480-227481/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 227508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	7470A	227451
480-75576-2 MS	PM-DISP2	TCLP	Water	7470A	227451
480-75576-2 MSD	PM-DISP2	TCLP	Water	7470A	227451
LCS 480-227508/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-227508/1-A	Method Blank	Total/NA	Water	7470A	

Leach Batch: 227516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	1311	
480-75576-1 MS	PM-DISP1	TCLP	Solid	1311	
480-75576-1 MSD	PM-DISP1	TCLP	Solid	1311	
LB 480-227516/1-B	Method Blank	TCLP	Solid	1311	
LB 480-227516/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 227564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	7470A	227508
480-75576-2 MS	PM-DISP2	TCLP	Water	7470A	227508
480-75576-2 MSD	PM-DISP2	TCLP	Water	7470A	227508
LCS 480-227508/2-A	Lab Control Sample	Total/NA	Water	7470A	227508
MB 480-227508/1-A	Method Blank	Total/NA	Water	7470A	227508

Prep Batch: 227661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	7470A	227516
480-75576-1 MS	PM-DISP1	TCLP	Solid	7470A	227516
480-75576-1 MSD	PM-DISP1	TCLP	Solid	7470A	227516
LB 480-227516/1-B	Method Blank	TCLP	Solid	7470A	227516
LCS 480-227661/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-227661/2-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 227662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	3010A	227516
480-75576-1 MS	PM-DISP1	TCLP	Solid	3010A	227516
480-75576-1 MSD	PM-DISP1	TCLP	Solid	3010A	227516
LB 480-227516/1-C	Method Blank	TCLP	Solid	3010A	227516
LCS 480-227662/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-227662/2-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 227683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	TCLP	Water	6010C	227481

Metals (Continued)

Analysis Batch: 227683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2 MS	PM-DISP2	TCLP	Water	6010C	227481
480-75576-2 MSD	PM-DISP2	TCLP	Water	6010C	227481
LCS 480-227481/2-A	Lab Control Sample	Total/NA	Water	6010C	227481
MB 480-227481/1-A	Method Blank	Total/NA	Water	6010C	227481

Analysis Batch: 227833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	7470A	227661
480-75576-1 MS	PM-DISP1	TCLP	Solid	7470A	227661
480-75576-1 MSD	PM-DISP1	TCLP	Solid	7470A	227661
LB 480-227516/1-B	Method Blank	TCLP	Solid	7470A	227661
LCS 480-227661/3-A	Lab Control Sample	Total/NA	Solid	7470A	227661
MB 480-227661/2-A	Method Blank	Total/NA	Solid	7470A	227661

Analysis Batch: 227836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	TCLP	Solid	6010C	227662
480-75576-1 MS	PM-DISP1	TCLP	Solid	6010C	227662
480-75576-1 MSD	PM-DISP1	TCLP	Solid	6010C	227662
LB 480-227516/1-C	Method Blank	TCLP	Solid	6010C	227662
LCS 480-227662/3-A	Lab Control Sample	Total/NA	Solid	6010C	227662
MB 480-227662/2-A	Method Blank	Total/NA	Solid	6010C	227662

General Chemistry

Analysis Batch: 227393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	Moisture	

Analysis Batch: 227702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-2	PM-DISP2	Total/NA	Water	9040C	
LCS 480-227702/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 227766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	1010A	
480-75576-2	PM-DISP2	Total/NA	Water	1010A	
LCS 480-227766/1	Lab Control Sample	Total/NA	Solid	1010A	

Analysis Batch: 227916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	9045D	
LCS 480-227916/1	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 228003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	7.3.4	
480-75576-2	PM-DISP2	Total/NA	Water	7.3.4	
480-75576-2 DU	PM-DISP2	Total/NA	Water	7.3.4	

General Chemistry (Continued)

Prep Batch: 228003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-228003/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 480-228003/1-A	Method Blank	Total/NA	Solid	7.3.4	

Prep Batch: 228004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	7.3.3	
480-75576-2	PM-DISP2	Total/NA	Water	7.3.3	
480-75576-2 DU	PM-DISP2	Total/NA	Water	7.3.3	
LCS 480-228004/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
MB 480-228004/1-A	Method Blank	Total/NA	Solid	7.3.3	

Analysis Batch: 228045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	9034	228003
480-75576-2	PM-DISP2	Total/NA	Water	9034	228003
480-75576-2 DU	PM-DISP2	Total/NA	Water	9034	228003
LCS 480-228003/2-A	Lab Control Sample	Total/NA	Solid	9034	228003
MB 480-228003/1-A	Method Blank	Total/NA	Solid	9034	228003

Analysis Batch: 228055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75576-1	PM-DISP1	Total/NA	Solid	9012	228004
480-75576-2	PM-DISP2	Total/NA	Water	9012	228004
480-75576-2 DU	PM-DISP2	Total/NA	Water	9012	228004
LCS 480-228004/2-A	Lab Control Sample	Total/NA	Solid	9012	228004
MB 480-228004/1-A	Method Blank	Total/NA	Solid	9012	228004

Client Sample ID: PM-DISP1

Lab Sample ID: 480-75576-1

Date Collected: 02/18/15 12:00

Matrix: Solid

Date Received: 02/18/15 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			227522	02/19/15 13:04	JLS	TAL BUF
TCLP	Analysis	8260C		10	227775	02/21/15 06:07	LJF	TAL BUF
TCLP	Leach	1311			227516	02/19/15 12:49	JLS	TAL BUF
TCLP	Prep	3510C			227666	02/20/15 09:49	JLS	TAL BUF
TCLP	Analysis	8270D		1	227861	02/23/15 16:24	LMW	TAL BUF
Total/NA	Prep	3550C			227507	02/19/15 12:13	CAM	TAL BUF
Total/NA	Analysis	8082A		2	227665	02/20/15 14:58	KS	TAL BUF
TCLP	Leach	1311			227516	02/19/15 12:49	JLS	TAL BUF
TCLP	Prep	3010A			227662	02/20/15 10:05	TAS	TAL BUF
TCLP	Analysis	6010C		1	227836	02/21/15 11:00	SLB	TAL BUF
TCLP	Leach	1311			227516	02/19/15 12:49	JLS	TAL BUF
TCLP	Prep	7470A			227661	02/20/15 09:55	LRK	TAL BUF
TCLP	Analysis	7470A		1	227833	02/20/15 13:12	LRK	TAL BUF
Total/NA	Analysis	1010A		1	227766	02/20/15 17:05	RP	TAL BUF
Total/NA	Prep	7.3.3			228004	02/24/15 03:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	228055	02/24/15 12:01	NCH	TAL BUF
Total/NA	Prep	7.3.4			228003	02/24/15 03:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	228045	02/24/15 10:50	LAW	TAL BUF
Total/NA	Analysis	9045D		1	227916	02/23/15 12:55	MDL	TAL BUF
Total/NA	Analysis	Moisture		1	227393	02/18/15 21:06	CMK	TAL BUF

Client Sample ID: PM-DISP2

Lab Sample ID: 480-75576-2

Date Collected: 02/18/15 12:10

Matrix: Water

Date Received: 02/18/15 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			227979	02/24/15 07:55	JLS	TAL BUF
TCLP	Analysis	8260C		1	228007	02/24/15 12:55	EDB	TAL BUF
TCLP	Leach	1311			227451	02/19/15 08:58	JLS	TAL BUF
TCLP	Prep	3510C			227438	02/19/15 09:46	TRG	TAL BUF
TCLP	Analysis	8270D		10	227638	02/20/15 12:11	LMW	TAL BUF
Total/NA	Prep	3510C			228002	02/24/15 09:24	JLS	TAL BUF
Total/NA	Analysis	8082A		2	228070	02/24/15 16:30	KS	TAL BUF
TCLP	Leach	1311			227451	02/19/15 08:58	JLS	TAL BUF
TCLP	Prep	3010A			227481	02/19/15 11:45	TAS	TAL BUF
TCLP	Analysis	6010C		1	227683	02/20/15 10:26	SLB	TAL BUF
TCLP	Leach	1311			227451	02/19/15 08:58	JLS	TAL BUF
TCLP	Prep	7470A			227508	02/19/15 12:25	LRK	TAL BUF
TCLP	Analysis	7470A		1	227564	02/19/15 14:59	LRK	TAL BUF
Total/NA	Analysis	1010A		1	227766	02/20/15 17:05	RP	TAL BUF
Total/NA	Prep	7.3.3			228004	02/24/15 03:15	LAW	TAL BUF
Total/NA	Analysis	9012		1	228055	02/24/15 11:58	NCH	TAL BUF
Total/NA	Prep	7.3.4			228003	02/24/15 03:15	LAW	TAL BUF
Total/NA	Analysis	9034		1	228045	02/24/15 10:50	LAW	TAL BUF

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Client Sample ID: PM-DISP2
Date Collected: 02/18/15 12:10
Date Received: 02/18/15 17:00

Lab Sample ID: 480-75576-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	227702	02/20/15 12:40	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
7470A	7470A	Solid	Mercury
9012	7.3.3	Solid	Cyanide, Reactive
9012	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Method	Method Description	Protocol	Laboratory
8260C	TCLP Volatiles	SW846	TAL BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
9045D	pH	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75576-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-75576-1	PM-DISP1	Solid	02/18/15 12:00	02/18/15 17:00
480-75576-2	PM-DISP2	Water	02/18/15 12:10	02/18/15 17:00

TestAmerica Buffal
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 7

Chain of Custody Record

052120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Rob Crowley	Site Contact: John Luthy	Date: 2/13/15	COC No:
Company Name: Amec	Tel/Fax:	Lab Contact: Brew Fuch	Carrier:	____ of ____ COCs
Address: 800 North Bell Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Carnegie PA 15106	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 412 279 6661	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Tract 2	☐ 1 week			Job / SDG No.: 75576
Site: Tract 2	☒ 2 days			
PO# Honeywell PO 4500091651	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCLP Metals	TCLP VOCs	TCLP SVOCs	TCLP PCBs	pH	Reactivity	Flashpoint	Sample Specific Notes:
PM-DISP1	2/18/15	12:00	C	Soil	3			X	X	X	X	X	X	X	
PM-DISP2	2/18/15	12:10	C	Wtr	2			X	X	X	X	X	X	X	

480-75576 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for____ Months

Special Instructions/QC Requirements & Comments:
No Cost B

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:____ Corr'd:____ Therm ID No.:____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Luthy	Amec	2/18/15 1700			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA	02/18/15 1700

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2/27/2015

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 480-75576-1

Login Number: 75576

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Very limited aqueous volume
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AMEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-75353-1
Client Project/Site: Niagara Falls site - Tract II
Revision: 1

For:
AMEC Foster Wheeler E & I, Inc
800 North Bell Avenue, Suite 200
Pittsburgh, Pennsylvania 15106

Attn: Rob Crowley

Authorized for release by:
2/24/2015 9:26:54 AM

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-75353-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-75353-1

Comments
This report has been revised to include a clarifying job narrative comment regarding method 310.13 results for sample E4-TD-2 (480-75353-2)

Receipt
The samples were received on 2/12/2015 7:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Except:

The following sample was activated for 8082 PCB analysis by the client on 2/13/15: E4-TD2 (480-75353-2). This analysis was not originally requested on the chain-of-custody (COC). Only the oil layer should be analyzed.

GC/MS VOA
Method(s) 8260C: The following samples were diluted in the medium level analysis to bring the concentration of target analytes within the calibration range: E4-TD1 (480-75353-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for batch 226979 recovered outside control limits for the following analytes: Sec-Butylbenzene, and Tert-Butylbenzene. These were not requested spike compounds; therefore, the data have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 226770 recovered above the upper control limit for Benzo(k)fluoranthene. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported. The following sample was impacted: (CCVIS 480-226770/3).

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix : E4-TD1 (480-75353-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following sample required a dilution due to the matrix effects and is reported as elevated non-detections for all target analytes (Aroclors) ; E4-TD2 (480-75353-2). The reported values represent the lowest limit that can be ascertained given the sample composition.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 310.13: The following sample was diluted to bring the concentration of target analytes within the calibration range: T2-WC PIPE (480-75353-3). Elevated reporting limits (RLs) are provided.

Method(s) 310.13: The following sample contained a petroleum product which most closely resembles Motor Oil: T2-WC PIPE (480-75353-3).

Method(s) 310.13: The following sample was diluted to bring the concentration of target analytes within the calibration range: E4-TD2 (480-75353-2). Elevated reporting limits (RLs) are provided.

Job ID: 480-75353-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 310.13: The following sample contained a petroleum product which most closely resembles a combination of Gasoline and Fuel Oil#6: E4-TD2 (480-75353-2). The mixture of these and other petroleum products is definitive in the identification process, though quantification can be elevated due to overlapping pattern areas. Given the high dilution of 50x, the sample matrix of a waste/oil, and the above mentioned overlap, the quantitaive results for these components is to be considered bias high and estimated in nature.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The low level continuing calibration verification (CCVL 480-226939/25) for analytical batch 480-226939 contained total aluminum, calcium, and iron above the upper quality control limits. All reported samples associated with this CCVL were either ND for these analytes or contained these analytes at concentrations greater than 10X the values found in the CCVL; therefore, re-analysis of samples (LCSSRM 480-226693/2-), (MB 480-226693/1-A) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3550B, 3550C: The following samples:T2-WC PIPE (480-75353-3) were decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: E4-TD1 — Lab Sample ID: 480-75353-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	82		81	15	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	140		81	23	ug/Kg	1	☼	8260C	Total/NA
Toluene	83		81	22	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	390		160	45	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	220		81	10	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	610		160	45	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	170		81	12	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	160		81	21	ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	62	J	81	27	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	560		81	22	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	140		81	24	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	210		81	24	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	120	*	81	30	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3800		81	27	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	7700	J	12000	1700	ug/Kg	50	☼	8270D	Total/NA
Acenaphthylene	4100	J	12000	1500	ug/Kg	50	☼	8270D	Total/NA
Anthracene	6700	J	12000	2900	ug/Kg	50	☼	8270D	Total/NA
Benzo(a)pyrene	2300	J	12000	1700	ug/Kg	50	☼	8270D	Total/NA
Benzo(b)fluoranthene	2500	J	12000	1800	ug/Kg	50	☼	8270D	Total/NA
Benzo(g,h,i)perylene	1400	J	12000	1200	ug/Kg	50	☼	8270D	Total/NA
Chrysene	4800	J	12000	2600	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene	6200	J	12000	1200	ug/Kg	50	☼	8270D	Total/NA
Fluorene	7900	J	12000	1400	ug/Kg	50	☼	8270D	Total/NA
Naphthalene	2400	J	12000	1500	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	21000		12000	1700	ug/Kg	50	☼	8270D	Total/NA
Pyrene	8600	J	12000	1400	ug/Kg	50	☼	8270D	Total/NA
Aluminum	13900		13.0		mg/Kg	1	☼	6010C	Total/NA
Arsenic	10.7		2.6		mg/Kg	1	☼	6010C	Total/NA
Barium	119		0.65		mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.87		0.26		mg/Kg	1	☼	6010C	Total/NA
Cadmium	12.2		0.26		mg/Kg	1	☼	6010C	Total/NA
Calcium	14300		65.1		mg/Kg	1	☼	6010C	Total/NA
Chromium	17.9		0.65		mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.2		0.65		mg/Kg	1	☼	6010C	Total/NA
Copper	143		1.3		mg/Kg	1	☼	6010C	Total/NA
Iron	18800		13.0		mg/Kg	1	☼	6010C	Total/NA
Lead	305		1.3		mg/Kg	1	☼	6010C	Total/NA
Magnesium	4530		26.1		mg/Kg	1	☼	6010C	Total/NA
Manganese	238		0.26		mg/Kg	1	☼	6010C	Total/NA
Nickel	20.4		6.5		mg/Kg	1	☼	6010C	Total/NA
Potassium	1610		39.1		mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.1		0.65		mg/Kg	1	☼	6010C	Total/NA
Zinc	924		2.6		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.084		0.026		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: E4-TD2 — Lab Sample ID: 480-75353-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	750000		7700	7700	mg/Kg	50		310.13	Total/NA
Fuel Oil #6	3800000		19000	19000	mg/Kg	50		310.13	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: T2-WC PIPE

Lab Sample ID: 480-75353-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	17000		2400	2400	mg/Kg	50	☼	310.13	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: E4-TD1
Date Collected: 02/10/15 12:00
Date Received: 02/12/15 07:45

Lab Sample ID: 480-75353-1
Matrix: Solid
Percent Solids: 72.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**82**		81	15	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Ethylbenzene	**140**		81	23	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Toluene	**83**		81	22	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
m-Xylene & p-Xylene	**390**		160	45	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
o-Xylene	**220**		81	10	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Xylenes, Total	**610**		160	45	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Isopropylbenzene	**170**		81	12	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
N-Propylbenzene	**160**		81	21	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
4-Isopropyltoluene	**62**	**J**	81	27	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
1,2,4-Trimethylbenzene	**560**		81	22	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
1,3,5-Trimethylbenzene	**140**		81	24	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
n-Butylbenzene	**210**		81	24	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
sec-Butylbenzene	**120**	*****	81	30	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Naphthalene	**3800**		81	27	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
Methyl tert-butyl ether	ND		81	30	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1
tert-Butylbenzene	ND	*	81	22	ug/Kg	☼	02/13/15 00:11	02/14/15 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*53 - 146*	*02/13/15 00:11*	*02/14/15 16:33*	*1*
Toluene-d8 (Surr)	*104*		*50 - 149*	*02/13/15 00:11*	*02/14/15 16:33*	*1*
4-Bromofluorobenzene (Surr)	*112*		*49 - 148*	*02/13/15 00:11*	*02/14/15 16:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**7700**	**J**	12000	1700	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Acenaphthylene	**4100**	**J**	12000	1500	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Anthracene	**6700**	**J**	12000	2900	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Benzo(a)anthracene	ND		12000	1200	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Benzo(a)pyrene	**2300**	**J**	12000	1700	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Benzo(b)fluoranthene	**2500**	**J**	12000	1800	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Benzo(g,h,i)perylene	**1400**	**J**	12000	1200	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Benzo(k)fluoranthene	ND		12000	1500	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Chrysene	**4800**	**J**	12000	2600	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Dibenz(a,h)anthracene	ND		12000	2000	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Fluoranthene	**6200**	**J**	12000	1200	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Fluorene	**7900**	**J**	12000	1400	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Indeno(1,2,3-cd)pyrene	ND		12000	1400	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Naphthalene	**2400**	**J**	12000	1500	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Phenanthrene	**21000**		12000	1700	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50
Pyrene	**8600**	**J**	12000	1400	ug/Kg	☼	02/12/15 09:45	02/13/15 02:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*39 - 146*	*02/12/15 09:45*	*02/13/15 02:32*	*50*
2-Fluorophenol	*0*	*X*	*18 - 120*	*02/12/15 09:45*	*02/13/15 02:32*	*50*
2-Fluorobiphenyl	*0*	*X*	*37 - 120*	*02/12/15 09:45*	*02/13/15 02:32*	*50*
Phenol-d5	*0*	*X*	*11 - 120*	*02/12/15 09:45*	*02/13/15 02:32*	*50*
p-Terphenyl-d14	*0*	*X*	*65 - 153*	*02/12/15 09:45*	*02/13/15 02:32*	*50*
Nitrobenzene-d5	*0*	*X*	*34 - 132*	*02/12/15 09:45*	*02/13/15 02:32*	*50*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: E4-TD1
Date Collected: 02/10/15 12:00
Date Received: 02/12/15 07:45

Lab Sample ID: 480-75353-1
Matrix: Solid
Percent Solids: 72.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13900		13.0		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Antimony	ND		19.5		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Arsenic	10.7		2.6		mg/Kg	☼	02/12/15 11:12	02/17/15 13:41	1
Barium	119		0.65		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Beryllium	0.87		0.26		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Cadmium	12.2		0.26		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Calcium	14300		65.1		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Chromium	17.9		0.65		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Cobalt	9.2		0.65		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Copper	143		1.3		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Iron	18800		13.0		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Lead	305		1.3		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Magnesium	4530		26.1		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Manganese	238		0.26		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Nickel	20.4		6.5		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Potassium	1610		39.1		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Selenium	ND		5.2		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Silver	ND		0.78		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Sodium	ND		182		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Thallium	ND		7.8		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Vanadium	24.1		0.65		mg/Kg	☼	02/12/15 11:12	02/13/15 12:36	1
Zinc	924		2.6		mg/Kg	☼	02/12/15 11:12	02/17/15 13:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.026		mg/Kg	☼	02/17/15 11:30	02/17/15 13:14	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: E4-TD2
Date Collected: 02/10/15 12:10
Date Received: 02/12/15 07:45

Lab Sample ID: 480-75353-2
Matrix: Waste

Method: 310.13 - Identification of Routine Petroleum Products

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**750000**		7700	7700	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Kerosene	ND		19000	19000	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Motor Oil	ND		38000	38000	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Fuel Oil #2	ND		19000	19000	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Fuel Oil #4	ND		19000	19000	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Fuel Oil #6	**3800000**		19000	19000	mg/Kg		02/12/15 14:32	02/13/15 13:28	50
Unknown Hydrocarbons	ND		7700	7700	mg/Kg		02/12/15 14:32	02/13/15 13:28	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1221	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1232	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1242	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1248	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1254	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2
PCB-1260	ND		3.3	3.3	mg/Kg		02/13/15 10:29	02/17/15 15:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*46 - 175*	*02/13/15 10:29*	*02/17/15 15:29*	*2*
Tetrachloro-m-xylene	*58*		*46 - 175*	*02/13/15 10:29*	*02/17/15 15:29*	*2*
DCB Decachlorobiphenyl	*109*		*47 - 176*	*02/13/15 10:29*	*02/17/15 15:29*	*2*
DCB Decachlorobiphenyl	*99*		*47 - 176*	*02/13/15 10:29*	*02/17/15 15:29*	*2*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: T2-WC PIPE
Date Collected: 02/11/15 15:00
Date Received: 02/12/15 07:45

Lab Sample ID: 480-75353-3
Matrix: Solid
Percent Solids: 68.6

Method: 310.13 - Identification of Routine Petroleum Products

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		480	480	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Kerosene	ND		1200	1200	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Motor Oil	**17000**		2400	2400	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Fuel Oil #2	ND		1200	1200	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Fuel Oil #4	ND		1200	1200	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Fuel Oil #6	ND		1200	1200	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50
Unknown Hydrocarbons	ND		1200	1200	mg/Kg	☼	02/13/15 10:32	02/17/15 13:06	50

Surrogate Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		12DCE	TOL	BFB						
Lab Sample ID	Client Sample ID	(53-146)	(50-149)	(49-148)						
480-75353-1	E4-TD1	112	104	112						
LCS 480-226818/1-A	Lab Control Sample	117	108	118						
MB 480-226818/2-A	Method Blank	128	118	126						

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	2FP	FBP	PHL	TPH	NBZ		
Lab Sample ID	Client Sample ID	(39-146)	(18-120)	(37-120)	(11-120)	(65-153)	(34-132)		
480-75353-1	E4-TD1	0 X	0 X	0 X	0 X	0 X	0 X		
LCS 480-226655/2-A	Lab Control Sample	96	78	91	84	104	85		
MB 480-226655/1-A	Method Blank	91	83	87	82	107	82		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
PHL = Phenol-d5
TPH = p-Terphenyl-d14
NBZ = Nitrobenzene-d5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	TCX2	DCB1	DCB2				
Lab Sample ID	Client Sample ID	(46-175)	(46-175)	(47-176)	(47-176)				
480-75353-2	E4-TD2	94	58	109	99				
LCS 480-226888/2-A	Lab Control Sample	127	118	141	127				
LCSD 480-226888/3-A	Lab Control Sample Dup	132	118	144	129				
MB 480-226888/1-A	Method Blank	102	101	128	116				

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-226818/2-A
Matrix: Solid
Analysis Batch: 226979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		99	19	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Ethylbenzene	ND		99	29	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Toluene	ND		99	27	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
m-Xylene & p-Xylene	ND		200	55	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
o-Xylene	ND		99	13	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Xylenes, Total	ND		200	55	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Isopropylbenzene	ND		99	15	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
N-Propylbenzene	ND		99	26	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
4-Isopropyltoluene	ND		99	33	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
1,2,4-Trimethylbenzene	ND		99	28	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
1,3,5-Trimethylbenzene	ND		99	30	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
n-Butylbenzene	ND		99	29	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
sec-Butylbenzene	ND		99	36	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Naphthalene	ND		99	33	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
Methyl tert-butyl ether	ND		99	37	ug/Kg		02/13/15 00:01	02/14/15 13:47	1
tert-Butylbenzene	ND		99	28	ug/Kg		02/13/15 00:01	02/14/15 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*		*53 - 146*	*02/13/15 00:01*	*02/14/15 13:47*	*1*
Toluene-d8 (Surr)	*118*		*50 - 149*	*02/13/15 00:01*	*02/14/15 13:47*	*1*
4-Bromofluorobenzene (Surr)	*126*		*49 - 148*	*02/13/15 00:01*	*02/14/15 13:47*	*1*

Lab Sample ID: LCS 480-226818/1-A
Matrix: Solid
Analysis Batch: 226979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2740		ug/Kg		110	77 - 125
Ethylbenzene	2500	2810		ug/Kg		113	78 - 124
Toluene	2500	2730		ug/Kg		109	75 - 124
m-Xylene & p-Xylene	2500	2890		ug/Kg		116	77 - 125
o-Xylene	2500	2840		ug/Kg		114	80 - 124
1,2,4-Trimethylbenzene	2500	2930		ug/Kg		118	77 - 127
Methyl tert-butyl ether	2500	2710		ug/Kg		109	67 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*53 - 146*
Toluene-d8 (Surr)	*108*		*50 - 149*
4-Bromofluorobenzene (Surr)	*118*		*49 - 148*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-226655/1-A
Matrix: Solid
Analysis Batch: 226770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Acenaphthylene	ND		170	22	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Anthracene	ND		170	41	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Benzo(a)anthracene	ND		170	17	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Benzo(a)pyrene	ND		170	25	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Chrysene	ND		170	38	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Fluoranthene	ND		170	18	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Fluorene	ND		170	20	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Naphthalene	ND		170	22	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Phenanthrene	ND		170	25	ug/Kg		02/12/15 08:28	02/12/15 17:28	1
Pyrene	ND		170	20	ug/Kg		02/12/15 08:28	02/12/15 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*39 - 146*	*02/12/15 08:28*	*02/12/15 17:28*	*1*
2-Fluorophenol	*83*		*18 - 120*	*02/12/15 08:28*	*02/12/15 17:28*	*1*
2-Fluorobiphenyl	*87*		*37 - 120*	*02/12/15 08:28*	*02/12/15 17:28*	*1*
Phenol-d5	*82*		*11 - 120*	*02/12/15 08:28*	*02/12/15 17:28*	*1*
p-Terphenyl-d14	*107*		*65 - 153*	*02/12/15 08:28*	*02/12/15 17:28*	*1*
Nitrobenzene-d5	*82*		*34 - 132*	*02/12/15 08:28*	*02/12/15 17:28*	*1*

Lab Sample ID: LCS 480-226655/2-A
Matrix: Solid
Analysis Batch: 226770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1640	1520		ug/Kg		93	53 - 120
Acenaphthylene	1640	1600		ug/Kg		98	58 - 121
Anthracene	1640	1620		ug/Kg		99	62 - 129
Benzo(a)anthracene	1640	1660		ug/Kg		101	65 - 133
Benzo(a)pyrene	1640	1590		ug/Kg		97	64 - 127
Benzo(b)fluoranthene	1640	1560		ug/Kg		95	64 - 135
Benzo(g,h,i)perylene	1640	1520		ug/Kg		93	50 - 152
Benzo(k)fluoranthene	1640	1740		ug/Kg		106	58 - 138
Chrysene	1640	1610		ug/Kg		99	64 - 131
Dibenz(a,h)anthracene	1640	1530		ug/Kg		94	54 - 148
Fluoranthene	1640	1670		ug/Kg		102	62 - 131
Fluorene	1640	1610		ug/Kg		98	63 - 126
Indeno(1,2,3-cd)pyrene	1640	1510		ug/Kg		92	56 - 149
Naphthalene	1640	1430		ug/Kg		87	46 - 120
Phenanthrene	1640	1630		ug/Kg		99	60 - 130
Pyrene	1640	1700		ug/Kg		104	51 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-226655/2-A
Matrix: Solid
Analysis Batch: 226770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226655

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*96*		*39 - 146*
2-Fluorophenol	*78*		*18 - 120*
2-Fluorobiphenyl	*91*		*37 - 120*
Phenol-d5	*84*		*11 - 120*
p-Terphenyl-d14	*104*		*65 - 153*
Nitrobenzene-d5	*85*		*34 - 132*

Method: 310.13 - Identification of Routine Petroleum Products

Lab Sample ID: MB 480-226762/1-A
Matrix: Waste
Analysis Batch: 226897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		200	200	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Kerosene	ND		500	500	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Motor Oil	ND		1000	1000	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Fuel Oil #2	ND		500	500	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Fuel Oil #4	ND		500	500	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Fuel Oil #6	ND		500	500	mg/Kg		02/12/15 14:32	02/13/15 10:57	1
Unknown Hydrocarbons	ND		200	200	mg/Kg		02/12/15 14:32	02/13/15 10:57	1

Lab Sample ID: LCS 480-226762/2-A
Matrix: Waste
Analysis Batch: 226897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fuel Oil #2	15000	13800		mg/Kg		92	50 - 150

Lab Sample ID: LCSD 480-226762/3-A
Matrix: Waste
Analysis Batch: 226897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 226762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fuel Oil #2	15000	13500		mg/Kg		90	50 - 150	2	50

Lab Sample ID: MB 480-226891/1-A
Matrix: Solid
Analysis Batch: 226935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.5	6.5	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Kerosene	ND		16	16	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Motor Oil	ND		32	32	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Fuel Oil #2	ND		16	16	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Fuel Oil #4	ND		16	16	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Fuel Oil #6	ND		16	16	mg/Kg		02/13/15 10:32	02/14/15 04:59	1
Unknown Hydrocarbons	ND		16	16	mg/Kg		02/13/15 10:32	02/14/15 04:59	1

Method: 310.13 - Identification of Routine Petroleum Products (Continued)

Lab Sample ID: LCS 480-226891/2-A
Matrix: Solid
Analysis Batch: 226935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fuel Oil #2	49.1	45.7		mg/Kg		93	50 - 150

Lab Sample ID: LCSD 480-226891/3-A
Matrix: Solid
Analysis Batch: 226935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 226891

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fuel Oil #2	49.1	44.7		mg/Kg		91	50 - 150	2	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-226888/1-A
Matrix: Waste
Analysis Batch: 227098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1221	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1232	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1242	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1248	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1254	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1
PCB-1260	ND		2.5	2.5	mg/Kg		02/13/15 10:29	02/17/15 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*46 - 175*	*02/13/15 10:29*	*02/17/15 14:45*	*1*
Tetrachloro-m-xylene	*101*		*46 - 175*	*02/13/15 10:29*	*02/17/15 14:45*	*1*
DCB Decachlorobiphenyl	*128*		*47 - 176*	*02/13/15 10:29*	*02/17/15 14:45*	*1*
DCB Decachlorobiphenyl	*116*		*47 - 176*	*02/13/15 10:29*	*02/17/15 14:45*	*1*

Lab Sample ID: LCS 480-226888/2-A
Matrix: Waste
Analysis Batch: 227098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	50.0	63.4		mg/Kg		127	51 - 185
PCB-1260	50.0	69.1		mg/Kg		138	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*127*		*46 - 175*
Tetrachloro-m-xylene	*118*		*46 - 175*
DCB Decachlorobiphenyl	*141*		*47 - 176*
DCB Decachlorobiphenyl	*127*		*47 - 176*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 480-226888/3-A
Matrix: Waste
Analysis Batch: 227098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 226888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			50.0	64.3		mg/Kg		129	51 - 185	1	50
PCB-1260			50.0	70.3		mg/Kg		141	61 - 184	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*132*		*46 - 175*
Tetrachloro-m-xylene	*118*		*46 - 175*
DCB Decachlorobiphenyl	*144*		*47 - 176*
DCB Decachlorobiphenyl	*129*		*47 - 176*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-226693/1-A
Matrix: Solid
Analysis Batch: 226939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	^	10.2		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Antimony	ND		15.4		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Arsenic	ND		2.0		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Barium	ND		0.51		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Beryllium	ND		0.20		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Cadmium	ND		0.20		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Calcium	ND	^	51.2		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Chromium	ND		0.51		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Cobalt	ND		0.51		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Copper	ND		1.0		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Iron	ND	^	10.2		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Lead	ND		1.0		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Magnesium	ND		20.5		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Manganese	ND		0.20		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Nickel	ND		5.1		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Potassium	ND		30.7		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Selenium	ND		4.1		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Silver	ND		0.61		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Sodium	ND		143		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Thallium	ND		6.1		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Vanadium	ND		0.51		mg/Kg		02/12/15 11:12	02/13/15 11:25	1
Zinc	ND		2.0		mg/Kg		02/12/15 11:12	02/13/15 11:25	1

Lab Sample ID: LCSSRM 480-226693/2-A
Matrix: Solid
Analysis Batch: 226939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226693

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			8630	7159	^	mg/Kg		82.9	41.6 - 157.9		
Antimony			107	74.66		mg/Kg		70.0	23.0 - 254.6		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-226693/2-A
Matrix: Solid
Analysis Batch: 226939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226693

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	149	119.8		mg/Kg		80.4	70.9 - 129.8
Barium	259	222.5		mg/Kg		86.0	73.7 - 126.3
Beryllium	147	109.5		mg/Kg		74.4	67.0 - 111.4
Cadmium	150	123.9		mg/Kg		82.5	73.0 - 126.3
Calcium	6320	5392	^	mg/Kg		85.3	73.9 - 125.9
Chromium	116	97.39		mg/Kg		84.3	69.7 - 129.9
Cobalt	67.8	62.34		mg/Kg		91.9	74.4 - 125.8
Copper	67.7	55.06		mg/Kg		81.3	73.2 - 129.2
Iron	12100	9344	^	mg/Kg		76.9	30.5 - 169.9
Lead	251	223.3		mg/Kg		89.0	75.6 - 124.8
Magnesium	3560	2893		mg/Kg		81.4	68.3 - 131.7
Manganese	556	447.8		mg/Kg		80.5	77.4 - 122.6
Nickel	311	274.6		mg/Kg		88.3	74.3 - 126.7
Potassium	3000	2515		mg/Kg		83.8	62.5 - 137.2
Selenium	160	137.4		mg/Kg		85.9	67.3 - 132.1
Silver	43.7	36.26		mg/Kg		82.9	66.4 - 133.9
Sodium	737	595.9		mg/Kg		80.9	56.8 - 143.4
Thallium	256	232.5		mg/Kg		90.9	69.5 - 130.5
Vanadium	115	94.69		mg/Kg		82.7	67.5 - 131.9
Zinc	302	256.4		mg/Kg		84.8	71.9 - 128.4

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-227109/1-A
Matrix: Solid
Analysis Batch: 227157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg		02/17/15 11:30	02/17/15 13:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: LCSSRM 480-227109/2-A
Matrix: Solid
Analysis Batch: 227157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227109

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.76	4.16		mg/Kg		72.1	51.0 - 148.8

GC/MS VOA

Prep Batch: 226818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	5035	
LCS 480-226818/1-A	Lab Control Sample	Total/NA	Solid	5035	
MB 480-226818/2-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 226979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	8260C	226818
LCS 480-226818/1-A	Lab Control Sample	Total/NA	Solid	8260C	226818
MB 480-226818/2-A	Method Blank	Total/NA	Solid	8260C	226818

GC/MS Semi VOA

Prep Batch: 226655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	3550C	
LCS 480-226655/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-226655/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 226770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	8270D	226655
LCS 480-226655/2-A	Lab Control Sample	Total/NA	Solid	8270D	226655
MB 480-226655/1-A	Method Blank	Total/NA	Solid	8270D	226655

GC Semi VOA

Prep Batch: 226762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-2	E4-TD2	Total/NA	Waste	3580A	
LCS 480-226762/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 480-226762/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
MB 480-226762/1-A	Method Blank	Total/NA	Waste	3580A	

Prep Batch: 226888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-2	E4-TD2	Total/NA	Waste	3580A	
LCS 480-226888/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 480-226888/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
MB 480-226888/1-A	Method Blank	Total/NA	Waste	3580A	

Prep Batch: 226891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-3	T2-WC PIPE	Total/NA	Solid	3550B	
LCS 480-226891/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-226891/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-226891/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 226897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-2	E4-TD2	Total/NA	Waste	310.13	226762

GC Semi VOA (Continued)

Analysis Batch: 226897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-226762/2-A	Lab Control Sample	Total/NA	Waste	310.13	226762
LCSD 480-226762/3-A	Lab Control Sample Dup	Total/NA	Waste	310.13	226762
MB 480-226762/1-A	Method Blank	Total/NA	Waste	310.13	226762

Analysis Batch: 226935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-226891/2-A	Lab Control Sample	Total/NA	Solid	310.13	226891
LCSD 480-226891/3-A	Lab Control Sample Dup	Total/NA	Solid	310.13	226891
MB 480-226891/1-A	Method Blank	Total/NA	Solid	310.13	226891

Analysis Batch: 227098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-2	E4-TD2	Total/NA	Waste	8082A	226888
LCS 480-226888/2-A	Lab Control Sample	Total/NA	Waste	8082A	226888
LCSD 480-226888/3-A	Lab Control Sample Dup	Total/NA	Waste	8082A	226888
MB 480-226888/1-A	Method Blank	Total/NA	Waste	8082A	226888

Analysis Batch: 227160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-3	T2-WC PIPE	Total/NA	Solid	310.13	226891

Metals

Prep Batch: 226693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	3050B	
LCSSRM 480-226693/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-226693/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 226939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	6010C	226693
LCSSRM 480-226693/2-A	Lab Control Sample	Total/NA	Solid	6010C	226693
MB 480-226693/1-A	Method Blank	Total/NA	Solid	6010C	226693

Prep Batch: 227109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	7471B	
LCSSRM 480-227109/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-227109/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 227157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	7471B	227109
LCSSRM 480-227109/2-A	Lab Control Sample	Total/NA	Solid	7471B	227109
MB 480-227109/1-A	Method Blank	Total/NA	Solid	7471B	227109

Analysis Batch: 227158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	6010C	226693

General Chemistry

Analysis Batch: 226790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75353-1	E4-TD1	Total/NA	Solid	Moisture	
480-75353-3	T2-WC PIPE	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Client Sample ID: E4-TD1

Lab Sample ID: 480-75353-1

Date Collected: 02/10/15 12:00
Matrix: Solid
Date Received: 02/12/15 07:45
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			226818	02/13/15 00:11	GTG	TAL BUF
Total/NA	Analysis	8260C		1	226979	02/14/15 16:33	GTG	TAL BUF
Total/NA	Prep	3550C			226655	02/12/15 09:45	MRB	TAL BUF
Total/NA	Analysis	8270D		50	226770	02/13/15 02:32	LMW	TAL BUF
Total/NA	Prep	3050B			226693	02/12/15 11:12	TAS	TAL BUF
Total/NA	Analysis	6010C		1	226939	02/13/15 12:36	AMH	TAL BUF
Total/NA	Prep	3050B			226693	02/12/15 11:12	TAS	TAL BUF
Total/NA	Analysis	6010C		1	227158	02/17/15 13:41	LMH	TAL BUF
Total/NA	Prep	7471B			227109	02/17/15 11:30	LRK	TAL BUF
Total/NA	Analysis	7471B		1	227157	02/17/15 13:14	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	226790	02/12/15 17:05	CMK	TAL BUF

Client Sample ID: E4-TD2

Lab Sample ID: 480-75353-2

Date Collected: 02/10/15 12:10
Matrix: Waste
Date Received: 02/12/15 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			226762	02/12/15 14:32	CPH	TAL BUF
Total/NA	Analysis	310.13		50	226897	02/13/15 13:28	JRL	TAL BUF
Total/NA	Prep	3580A			226888	02/13/15 10:29	JLS	TAL BUF
Total/NA	Analysis	8082A		2	227098	02/17/15 15:29	KS	TAL BUF

Client Sample ID: T2-WC PIPE

Lab Sample ID: 480-75353-3

Date Collected: 02/11/15 15:00
Matrix: Solid
Date Received: 02/12/15 07:45
Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			226891	02/13/15 10:32	JLS	TAL BUF
Total/NA	Analysis	310.13		50	227160	02/17/15 13:06	JRL	TAL BUF
Total/NA	Analysis	Moisture		1	226790	02/12/15 17:05	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
310.13	3550B	Solid	Fuel Oil #2
310.13	3550B	Solid	Fuel Oil #4
310.13	3550B	Solid	Fuel Oil #6
310.13	3550B	Solid	Gasoline
310.13	3550B	Solid	Kerosene
310.13	3550B	Solid	Motor Oil
310.13	3550B	Solid	Unknown Hydrocarbons
310.13	3580A	Waste	Fuel Oil #2
310.13	3580A	Waste	Fuel Oil #4
310.13	3580A	Waste	Fuel Oil #6
310.13	3580A	Waste	Gasoline
310.13	3580A	Waste	Kerosene
310.13	3580A	Waste	Motor Oil
310.13	3580A	Waste	Unknown Hydrocarbons
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
310.13	Identification of Routine Petroleum Products	NYASP	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

NYASP = New York Analytical Services Protocol

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-75353-1	E4-TD1	Solid	02/10/15 12:00	02/12/15 07:45
480-75353-2	E4-TD2	Waste	02/10/15 12:10	02/12/15 07:45
480-75353-3	T2-WC PIPE	Solid	02/11/15 15:00	02/12/15 07:45

Detection Limit Exceptions Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Niagara Falls site - Tract II

TestAmerica Job ID: 480-75353-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
310.13	Solid	Motor Oil	mg/Kg	33	33.33

TestAmerica Buffalo

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480-75353 Chain of Custody

Chain of Custody Record

052118

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name: Amec	Project Manager: Rob Crowley	Site Contact: John Luttner	Date: 2/12/15
Address: 800 North Bell Ave	Tel/Fax:	Lab Contact: Bear Fischer	Carrier:
City/State/Zip: Carnegie PA 15106			
Phone: 412 279 6661			
Fax:			
Project Name: Tract 2			
Site: Tract 2			
PO # Honeywell PO 4500091651			

Analysis Turnaround Time
☐ CALENDAR DAYS ☐ WORKING DAYS
TAT if different from Below _____
☐ 2 weeks
☐ 1 week
☒ 2 days
☐ 1 day

COC No: _____ of _____ COCs
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	310.13	8260 STARS	8270 STARS	TAL Metals	Sample Specific Notes:
E4-TD1	2/10/15	12:00	G	Soil	6				X	X	X	
~~E4-TD2~~ DP												
E4-TD2	2/10/15	12:10	G	liquid	1			X				← Please analyze product layer
T2-WC Pipe	2/11/15	15:00	G	Sludge	1			X				

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Cat B

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by: John Luttner 2/12/1	Company: Amec	Date/Time: 2/12/15 7:45	Received by:	Company:	Date/Time: 2/12/15 0745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.9 #1

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2/24/2015

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 480-75353-1

Login Number: 75353

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	amec
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Groundwater & Environmental Services

For Lab Project ID

151491

Referencing

Brightfields Tract II

Prepared

Tuesday, April 28, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

KR Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.
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179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

LAB PROJECT NARRATIVE

CLIENT: Groundwater & Environmental Services
PROJECT NAME: Brightfields Tract II
LAB PROJECT NUMBER: 151491

Three soil samples were collected on 4/23/2015 and submitted to Paradigm for VOC 8260 STARS and SVOC 8270 STARS analysis. The samples were received at the Paradigm laboratory on 4/24/2015 with NELAC compliance issues as noted on the Chain of Custody Supplement Sample Condition Report.

For VOCs, all analytical quality control measures, including blanks, surrogates, calibrations and Laboratory Control Spikes, were compliant with method specifications.

For SVOCs, the samples "LNAPL-13 (8.5')" and "LNAPL-17 (4.5')" had surrogate outliers as indicated on the sample reports. These outliers indicate probable matrix effects. Both samples had significant concentrations of non-target petroleum hydrocarbons. All other method QC measures, including blanks, calibrations and Laboratory Control Spikes, were compliant with method specifications.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-12 (10')
Lab Sample ID: 151491-01 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 291	ug/Kg		4/27/2015 16:17
Acenaphthylene	< 291	ug/Kg		4/27/2015 16:17
Anthracene	< 291	ug/Kg		4/27/2015 16:17
Benzo (a) anthracene	< 291	ug/Kg		4/27/2015 16:17
Benzo (a) pyrene	< 291	ug/Kg		4/27/2015 16:17
Benzo (b) fluoranthene	< 291	ug/Kg		4/27/2015 16:17
Benzo (g,h,i) perylene	< 291	ug/Kg		4/27/2015 16:17
Benzo (k) fluoranthene	< 291	ug/Kg		4/27/2015 16:17
Chrysene	< 291	ug/Kg		4/27/2015 16:17
Dibenz (a,h) anthracene	< 291	ug/Kg		4/27/2015 16:17
Fluoranthene	< 291	ug/Kg		4/27/2015 16:17
Fluorene	< 291	ug/Kg		4/27/2015 16:17
Indeno (1,2,3-cd) pyrene	< 291	ug/Kg		4/27/2015 16:17
Naphthalene	< 291	ug/Kg		4/27/2015 16:17
Phenanthrene	< 291	ug/Kg		4/27/2015 16:17
Pyrene	< 291	ug/Kg		4/27/2015 16:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**53.5**	46.3 - 96.9		4/27/2015 16:17
Nitrobenzene-d5	**50.6**	39.7 - 90.9		4/27/2015 16:17
Terphenyl-d14	**68.5**	56.8 - 119		4/27/2015 16:17

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/27/2015
Data File: B04797.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 9.87	ug/Kg		4/24/2015 14:47
1,3,5-Trimethylbenzene	< 9.87	ug/Kg		4/24/2015 14:47
Benzene	< 9.87	ug/Kg		4/24/2015 14:47

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-12 (10')
Lab Sample ID: 151491-01 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Ethylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
Isopropylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
m,p-Xylene	< 9.87	ug/Kg	4/24/2015	14:47
Methyl tert-butyl Ether	< 9.87	ug/Kg	4/24/2015	14:47
Naphthalene	< 24.7	ug/Kg	4/24/2015	14:47
n-Butylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
n-Propylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
o-Xylene	< 9.87	ug/Kg	4/24/2015	14:47
p-Isopropyltoluene	< 9.87	ug/Kg	4/24/2015	14:47
sec-Butylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
tert-Butylbenzene	< 9.87	ug/Kg	4/24/2015	14:47
Toluene	< 9.87	ug/Kg	4/24/2015	14:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	80.6 - 125		4/24/2015	14:47
4-Bromofluorobenzene	**105**	86.6 - 111		4/24/2015	14:47
Pentafluorobenzene	**101**	90.9 - 107		4/24/2015	14:47
Toluene-D8	**98.4**	90.8 - 109		4/24/2015	14:47

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22163.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-13 (8.5')
Lab Sample ID: 151491-02 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 308	ug/Kg		4/27/2015 16:45
Acenaphthylene	< 308	ug/Kg		4/27/2015 16:45
Anthracene	< 308	ug/Kg		4/27/2015 16:45
Benzo (a) anthracene	< 308	ug/Kg		4/27/2015 16:45
Benzo (a) pyrene	< 308	ug/Kg		4/27/2015 16:45
Benzo (b) fluoranthene	< 308	ug/Kg		4/27/2015 16:45
Benzo (g,h,i) perylene	< 308	ug/Kg		4/27/2015 16:45
Benzo (k) fluoranthene	< 308	ug/Kg		4/27/2015 16:45
Chrysene	< 308	ug/Kg		4/27/2015 16:45
Dibenz (a,h) anthracene	< 308	ug/Kg		4/27/2015 16:45
Fluoranthene	< 308	ug/Kg		4/27/2015 16:45
Fluorene	< 308	ug/Kg		4/27/2015 16:45
Indeno (1,2,3-cd) pyrene	< 308	ug/Kg		4/27/2015 16:45
Naphthalene	< 308	ug/Kg		4/27/2015 16:45
Phenanthrene	< 308	ug/Kg		4/27/2015 16:45
Pyrene	< 308	ug/Kg		4/27/2015 16:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**41.8**	46.3 - 96.9	*	4/27/2015 16:45
Nitrobenzene-d5	**31.6**	39.7 - 90.9	*	4/27/2015 16:45
Terphenyl-d14	**56.8**	56.8 - 119		4/27/2015 16:45

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/27/2015
Data File: B04798.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
1,3,5-Trimethylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
Benzene	< 6.94	ug/Kg		4/24/2015 15:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-13 (8.5')
Lab Sample ID: 151491-02 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Ethylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
Isopropylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
m,p-Xylene	< 6.94	ug/Kg		4/24/2015 15:11
Methyl tert-butyl Ether	< 6.94	ug/Kg		4/24/2015 15:11
Naphthalene	< 17.4	ug/Kg		4/24/2015 15:11
n-Butylbenzene	**14.3**	ug/Kg		4/24/2015 15:11
n-Propylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
o-Xylene	< 6.94	ug/Kg		4/24/2015 15:11
p-Isopropyltoluene	< 6.94	ug/Kg		4/24/2015 15:11
sec-Butylbenzene	**7.78**	ug/Kg		4/24/2015 15:11
tert-Butylbenzene	< 6.94	ug/Kg		4/24/2015 15:11
Toluene	< 6.94	ug/Kg		4/24/2015 15:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**102**	80.6 - 125		4/24/2015 15:11
4-Bromofluorobenzene	**91.5**	86.6 - 111		4/24/2015 15:11
Pentafluorobenzene	**102**	90.9 - 107		4/24/2015 15:11
Toluene-D8	**101**	90.8 - 109		4/24/2015 15:11

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22164.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-17 (4.5')
Lab Sample ID: 151491-03 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 305	ug/Kg		4/27/2015 17:14
Acenaphthylene	< 305	ug/Kg		4/27/2015 17:14
Anthracene	< 305	ug/Kg		4/27/2015 17:14
Benzo (a) anthracene	< 305	ug/Kg		4/27/2015 17:14
Benzo (a) pyrene	< 305	ug/Kg		4/27/2015 17:14
Benzo (b) fluoranthene	< 305	ug/Kg		4/27/2015 17:14
Benzo (g,h,i) perylene	< 305	ug/Kg		4/27/2015 17:14
Benzo (k) fluoranthene	< 305	ug/Kg		4/27/2015 17:14
Chrysene	< 305	ug/Kg		4/27/2015 17:14
Dibenz (a,h) anthracene	< 305	ug/Kg		4/27/2015 17:14
Fluoranthene	< 305	ug/Kg		4/27/2015 17:14
Fluorene	**416**	ug/Kg		4/27/2015 17:14
Indeno (1,2,3-cd) pyrene	< 305	ug/Kg		4/27/2015 17:14
Naphthalene	< 305	ug/Kg		4/27/2015 17:14
Phenanthrene	**943**	ug/Kg		4/27/2015 17:14
Pyrene	< 305	ug/Kg		4/27/2015 17:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**67.5**	46.3 - 96.9		4/27/2015 17:14
Nitrobenzene-d5	**50.4**	39.7 - 90.9		4/27/2015 17:14
Terphenyl-d14	**64.4**	56.8 - 119		4/27/2015 17:14

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/27/2015
Data File: B04799.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**14.2**	ug/Kg		4/24/2015 15:36
1,3,5-Trimethylbenzene	< 8.79	ug/Kg		4/24/2015 15:36
Benzene	< 8.79	ug/Kg		4/24/2015 15:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151491

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-17 (4.5')
Lab Sample ID: 151491-03 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/24/2015

Ethylbenzene	< 8.79	ug/Kg	4/24/2015	15:36
Isopropylbenzene	**36.0**	ug/Kg	4/24/2015	15:36
m,p-Xylene	< 8.79	ug/Kg	4/24/2015	15:36
Methyl tert-butyl Ether	< 8.79	ug/Kg	4/24/2015	15:36
Naphthalene	< 22.0	ug/Kg	4/24/2015	15:36
n-Butylbenzene	**81.5**	ug/Kg	4/24/2015	15:36
n-Propylbenzene	**36.9**	ug/Kg	4/24/2015	15:36
o-Xylene	< 8.79	ug/Kg	4/24/2015	15:36
p-Isopropyltoluene	< 8.79	ug/Kg	4/24/2015	15:36
sec-Butylbenzene	**50.7**	ug/Kg	4/24/2015	15:36
tert-Butylbenzene	< 8.79	ug/Kg	4/24/2015	15:36
Toluene	< 8.79	ug/Kg	4/24/2015	15:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	80.6 - 125		4/24/2015	15:36
4-Bromofluorobenzene	**89.9**	86.6 - 111		4/24/2015	15:36
Pentafluorobenzene	**102**	90.9 - 107		4/24/2015	15:36
Toluene-D8	**107**	90.8 - 109		4/24/2015	15:36

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22165.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Groundwater & Environmental Services	COMPANY:	
ADDRESS:	495 Aero Drive, Suite 3	ADDRESS:	
CITY:	Cheektowaga STATE: NY ZIP: 14225	CITY: STATE: ZIP:	
PHONE:	800-287-7857 FAX: 866-902-2187	PHONE: FAX:	
ATTN:	Eric Popken	ATTN:	Eric Popken

LAB PROJECT #: 151491
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
Due COB 4/28/15 STD OTHER
☐ 1 ☐ 2 ☒ 3 ☐ 5

PROJECT NAME/SITE NAME: Brightfields Tract II

COMMENTS: Please provide a case narrative with final report.
Quotes #JH040115, JH101514

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	8260 STARS VOCs	8270 STARS SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	4/23/15	1215		x	LNAPL-12 (10')	Soil	2	x	x	All PID Readings <50	01
2	"	1310		x	LNAPL-13 (8.5')	Soil	2	x	x	1	02
3	"	1500		x	LNAPL-17 (4.5')	Soil	2	x	x		03
4				x		Soil		x	x		
5				x		Soil		x	x		
6				x		Soil		x	x		
7				x		Soil		x	x		
8				x		Soil		x	x		
9				x		Soil		x	x		
10				x		Soil		x	x		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐
3°C Iced 4/24/15 08:52

Sampled By: Tom Palma (GES)	Date/Time: 4/23/15	Relinquished By:	Date/Time: 4-23-15/1700
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By:	Date/Time: 4/24/15 10:27

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Groundwater & Env. Services **Completed by:** Glenn Pezzulo

Lab Project ID: 151491 **Date:** 4/24/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X See SS	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	8°C iced		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Groundwater & Environmental Services

For Lab Project ID

151513

Referencing

Brightfields Tract II

Prepared

Thursday, April 30, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Reduced sample size used for TCLP (1311) extraction due to limited sample volume.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.
WWW.PARADIGMENV.COM
179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

LAB PROJECT NARRATIVE

CLIENT: Groundwater & Environmental Services
PROJECT NAME: Brightfields Tract II
LAB PROJECT NUMBER: 151513

Two soil samples were collected on 4/23/2015 and submitted to Paradigm for TCLP Lead, TCLP Benzene, Flashpoint, pH, Paint Filter and PHC analysis. The samples were received at the Paradigm laboratory on 4/24/2015 with NELAC compliance issues as noted on the Chain of Custody Supplement Sample Condition Report.

For TCLP Benzene, all analytical quality control measures, including blanks, surrogates, calibrations and Laboratory Control Spikes, were compliant with method specifications.

For TCLP Lead and PHCs, all analytical quality control measures, including blanks, calibrations and Laboratory Control Spikes, were compliant with method specifications.

For pH, Paint Filter test and Flashpoint, all calibrations, reference values or other method QC requirements were met.

Lab Project ID: 151513

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier:	Disposal 1		
Lab Sample ID:	151513-01	**Date Sampled:**	4/23/2015
Matrix:	Soil	**Date Received:**	4/24/2015

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		4/27/2015

Method Reference(s): EPA 1010A

Paint Filter Test

Analyte	Result	Units	Qualifier	Date Analyzed
Paint Filter Test	Pass	N/A		4/27/2015

Method Reference(s): EPA 9095B

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.89 @ 17.4 C	S.U.		4/27/2015 14:40

Method Reference(s): EPA 9045D

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	**158**	mg/Kg		4/28/2015

Sample chromatogram not an exact match to reference chromatogram. Closest match made.

Method Reference(s): NYSDOH 310.13 Modified

Preparation Date: 4/27/2015

ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151513

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier:	Disposal 1		
Lab Sample ID:	151513-01A	**Date Sampled:**	4/23/2015
Matrix:	TCLP Extract	**Date Received:**	4/24/2015

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Benzene	< 20.0	ug/L	500		4/28/2015 15:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.9**	82.3 - 115		4/28/2015 15:09
4-Bromofluorobenzene	**87.0**	85.5 - 111		4/28/2015 15:09
Pentafluorobenzene	**96.4**	91.2 - 107		4/28/2015 15:09
Toluene-D8	**96.1**	90.9 - 108		4/28/2015 15:09

Method Reference(s): EPA 8260C
EPA 1311 / 5030
Data File: x22252.D

TCLP Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Lead	< 0.100	mg/L	5		4/28/2015 16:59

Method Reference(s): EPA 6010C
EPA 1311 / 3005
Preparation Date: 4/27/2015
Data File: 042815b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151513

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier:	Disposal 2		
Lab Sample ID:	151513-02	**Date Sampled:**	4/23/2015
Matrix:	Soil	**Date Received:**	4/24/2015

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	>70.0	C		4/27/2015

Method Reference(s): EPA 1010A

Paint Filter Test

Analyte	Result	Units	Qualifier	Date Analyzed
Paint Filter Test	Pass	N/A		4/27/2015

Method Reference(s): EPA 9095B

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.70 @ 19.3 C	S.U.		4/27/2015 14:40

Method Reference(s): EPA 9045D

Petroleum Hydrocarbons by GC

Analyte	Result	Units	Qualifier	Date Analyzed
Heavy weight PHC as Lube Oil	**375**	mg/Kg		4/28/2015

Sample chromatogram not an exact match to reference chromatogram. Closest match made.

Method Reference(s): NYSDOH 310.13 Modified

Preparation Date: 4/27/2015

ELAP does not offer this test for approval as part of their laboratory certification program.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151513

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: Disposal 2
Lab Sample ID: 151513-02A **Date Sampled:** 4/23/2015
Matrix: TCLP Extract **Date Received:** 4/24/2015

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Benzene	< 20.0	ug/L	500		4/28/2015 15:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.7**	82.3 - 115		4/28/2015 15:32
4-Bromofluorobenzene	**87.9**	85.5 - 111		4/28/2015 15:32
Pentafluorobenzene	**96.8**	91.2 - 107		4/28/2015 15:32
Toluene-D8	**97.2**	90.9 - 108		4/28/2015 15:32

Method Reference(s): EPA 8260C
EPA 1311 / 5030
Data File: x22253.D

TCLP Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Lead	< 0.100	mg/L	5		4/28/2015 17:03

Method Reference(s): EPA 6010C
EPA 1311 / 3005
Preparation Date: 4/27/2015
Data File: 042815b

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT #:	CLIENT PROJECT #:
COMPANY:	Groundwater & Environmental Services	COMPANY:		151513	
ADDRESS:	495 Aero Drive, Suite 3	ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	4/30/15
CITY:	Cheektowaga STATE: NY ZIP: 14225	CITY:	STATE: ZIP:	DUE COB 4/30/15	STD OTHER
PHONE:	800-287-7857 FAX: 866-902-2187	PHONE:	FAX:	☐ 1 ☐ 2 ☒ 3 ☒ 5	
ATTN:	Eric Popken	ATTN:	Eric Popken		
PROJECT NAME/SITE NAME:	Brightfields Tract II	COMMENTS:	Please provide a case narrative with final report. Quotes #JH040115, JH101514		

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TCLP Lead & Benzene	TPH-DRO, GRO - LAC 3.0.13	pH Per SW, as per EP	Ignitability SW 1030/24/15	Paint Filter	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	4/23/15	1515		x	Disposal 1	Soil	34	x	x	x	x	x	All PID Readings <50	01A
2	↓	1530		x	Disposal 2	Soil	34	x	x	x	x	x	1	02A
3				x		Soil	m	x	x	x	x	x		
4				x		Soil	4/24/15						After TCLP extract	
5				x		Soil								
6				x		Soil								
7				x		Soil								
8				x		Soil								
9				x		Soil								
10				x		Soil								

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 8°C iced 4/24/15 08:52

Sampled By: Tom Palmer (GES) Date/Time: 4/23/15

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time: 4-23-15 1700

Received By: Date/Time:

Received @ Lab By: Mail Mail 4/24/15 1500 Date/Time:

Total Cost:

P.I.F.

2082

Chain of Custody Supplement

Client: Groundwater Env. Serv. **Completed by:** Molly Reid

Lab Project ID: 151513 **Date:** 4/24/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	X Metals
Comments	8°C iced 4/24/15 0852		
Sufficient Sample Quantity	X		
Comments			

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PARADIGM

Analytical Report For

Groundwater & Environmental Services

For Lab Project ID

151532

Referencing

Brightfields Tract II

Prepared

Wednesday, April 29, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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LAB PROJECT NARRATIVE

CLIENT: Groundwater & Environmental Services
PROJECT NAME: Brightfields Tract II
LAB PROJECT NUMBER: 151532

Four soil samples were collected on 4/23/2015 and submitted to Paradigm for VOC 8260 STARS and SVOC 8270 STARS analysis. The samples were received at the Paradigm laboratory on 4/27/2015 with NELAC compliance issues as noted on the Chain of Custody Supplement Sample Condition Report.

For VOCs, all analytical quality control measures, including blanks, surrogates, calibrations and Laboratory Control Spikes, were compliant with method specifications.

For SVOCs, all four samples had one or more surrogate outliers as indicated on the sample reports. These outliers indicate probable matrix effects. All samples had significant concentrations of non-target petroleum hydrocarbons. All other method QC measures, including blanks, calibrations and Laboratory Control Spikes, were compliant with method specifications.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-19 (10-10.5')
Lab Sample ID: 151532-01 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 357	ug/Kg		4/28/2015 13:07
Acenaphthylene	< 357	ug/Kg		4/28/2015 13:07
Anthracene	< 357	ug/Kg		4/28/2015 13:07
Benzo (a) anthracene	< 357	ug/Kg		4/28/2015 13:07
Benzo (a) pyrene	< 357	ug/Kg		4/28/2015 13:07
Benzo (b) fluoranthene	< 357	ug/Kg		4/28/2015 13:07
Benzo (g,h,i) perylene	< 357	ug/Kg		4/28/2015 13:07
Benzo (k) fluoranthene	< 357	ug/Kg		4/28/2015 13:07
Chrysene	< 357	ug/Kg		4/28/2015 13:07
Dibenz (a,h) anthracene	< 357	ug/Kg		4/28/2015 13:07
Fluoranthene	< 357	ug/Kg		4/28/2015 13:07
Fluorene	< 357	ug/Kg		4/28/2015 13:07
Indeno (1,2,3-cd) pyrene	< 357	ug/Kg		4/28/2015 13:07
Naphthalene	< 357	ug/Kg		4/28/2015 13:07
Phenanthrene	< 357	ug/Kg		4/28/2015 13:07
Pyrene	< 357	ug/Kg		4/28/2015 13:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**35.9**	46.3 - 96.9	*	4/28/2015 13:07
Nitrobenzene-d5	**33.8**	39.7 - 90.9	*	4/28/2015 13:07
Terphenyl-d14	**55.5**	56.8 - 119	*	4/28/2015 13:07

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/28/2015
Data File: B04811.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 8.16	ug/Kg		4/27/2015 15:02
1,3,5-Trimethylbenzene	< 8.16	ug/Kg		4/27/2015 15:02
Benzene	< 8.16	ug/Kg		4/27/2015 15:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-19 (10-10.5')
Lab Sample ID: 151532-01 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Ethylbenzene	< 8.16	ug/Kg	4/27/2015	15:02
Isopropylbenzene	< 8.16	ug/Kg	4/27/2015	15:02
m,p-Xylene	< 8.16	ug/Kg	4/27/2015	15:02
Methyl tert-butyl Ether	< 8.16	ug/Kg	4/27/2015	15:02
Naphthalene	< 20.4	ug/Kg	4/27/2015	15:02
n-Butylbenzene	**10.5**	ug/Kg	4/27/2015	15:02
n-Propylbenzene	< 8.16	ug/Kg	4/27/2015	15:02
o-Xylene	< 8.16	ug/Kg	4/27/2015	15:02
p-Isopropyltoluene	< 8.16	ug/Kg	4/27/2015	15:02
sec-Butylbenzene	**10.2**	ug/Kg	4/27/2015	15:02
tert-Butylbenzene	< 8.16	ug/Kg	4/27/2015	15:02
Toluene	< 8.16	ug/Kg	4/27/2015	15:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**97.9**	80.6 - 125		4/27/2015	15:02
4-Bromofluorobenzene	**103**	86.6 - 111		4/27/2015	15:02
Pentafluorobenzene	**101**	90.9 - 107		4/27/2015	15:02
Toluene-D8	**101**	90.8 - 109		4/27/2015	15:02

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22195.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-20 (14-15')
Lab Sample ID: 151532-02 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 317	ug/Kg		4/28/2015 13:35
Acenaphthylene	< 317	ug/Kg		4/28/2015 13:35
Anthracene	< 317	ug/Kg		4/28/2015 13:35
Benzo (a) anthracene	< 317	ug/Kg		4/28/2015 13:35
Benzo (a) pyrene	< 317	ug/Kg		4/28/2015 13:35
Benzo (b) fluoranthene	< 317	ug/Kg		4/28/2015 13:35
Benzo (g,h,i) perylene	< 317	ug/Kg		4/28/2015 13:35
Benzo (k) fluoranthene	< 317	ug/Kg		4/28/2015 13:35
Chrysene	< 317	ug/Kg		4/28/2015 13:35
Dibenz (a,h) anthracene	< 317	ug/Kg		4/28/2015 13:35
Fluoranthene	< 317	ug/Kg		4/28/2015 13:35
Fluorene	< 317	ug/Kg		4/28/2015 13:35
Indeno (1,2,3-cd) pyrene	< 317	ug/Kg		4/28/2015 13:35
Naphthalene	< 317	ug/Kg		4/28/2015 13:35
Phenanthrene	< 317	ug/Kg		4/28/2015 13:35
Pyrene	< 317	ug/Kg		4/28/2015 13:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**55.8**	46.3 - 96.9		4/28/2015 13:35
Nitrobenzene-d5	**44.8**	39.7 - 90.9		4/28/2015 13:35
Terphenyl-d14	**59.8**	56.8 - 119		4/28/2015 13:35

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/28/2015
Data File: B04812.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 9.64	ug/Kg		4/27/2015 14:38
1,3,5-Trimethylbenzene	< 9.64	ug/Kg		4/27/2015 14:38
Benzene	< 9.64	ug/Kg		4/27/2015 14:38

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-20 (14-15')
Lab Sample ID: 151532-02 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Ethylbenzene	< 9.64	ug/Kg	4/27/2015	14:38
Isopropylbenzene	< 9.64	ug/Kg	4/27/2015	14:38
m,p-Xylene	< 9.64	ug/Kg	4/27/2015	14:38
Methyl tert-butyl Ether	< 9.64	ug/Kg	4/27/2015	14:38
Naphthalene	< 24.1	ug/Kg	4/27/2015	14:38
n-Butylbenzene	< 9.64	ug/Kg	4/27/2015	14:38
n-Propylbenzene	< 9.64	ug/Kg	4/27/2015	14:38
o-Xylene	< 9.64	ug/Kg	4/27/2015	14:38
p-Isopropyltoluene	< 9.64	ug/Kg	4/27/2015	14:38
sec-Butylbenzene	**9.85**	ug/Kg	4/27/2015	14:38
tert-Butylbenzene	< 9.64	ug/Kg	4/27/2015	14:38
Toluene	< 9.64	ug/Kg	4/27/2015	14:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	80.6 - 125		4/27/2015	14:38
4-Bromofluorobenzene	**89.7**	86.6 - 111		4/27/2015	14:38
Pentafluorobenzene	**101**	90.9 - 107		4/27/2015	14:38
Toluene-D8	**101**	90.8 - 109		4/27/2015	14:38

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22194.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-21 (8-10')
Lab Sample ID: 151532-03 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 345	ug/Kg		4/28/2015 14:04
Acenaphthylene	< 345	ug/Kg		4/28/2015 14:04
Anthracene	< 345	ug/Kg		4/28/2015 14:04
Benzo (a) anthracene	< 345	ug/Kg		4/28/2015 14:04
Benzo (a) pyrene	< 345	ug/Kg		4/28/2015 14:04
Benzo (b) fluoranthene	< 345	ug/Kg		4/28/2015 14:04
Benzo (g,h,i) perylene	< 345	ug/Kg		4/28/2015 14:04
Benzo (k) fluoranthene	< 345	ug/Kg		4/28/2015 14:04
Chrysene	< 345	ug/Kg		4/28/2015 14:04
Dibenz (a,h) anthracene	< 345	ug/Kg		4/28/2015 14:04
Fluoranthene	< 345	ug/Kg		4/28/2015 14:04
Fluorene	< 345	ug/Kg		4/28/2015 14:04
Indeno (1,2,3-cd) pyrene	< 345	ug/Kg		4/28/2015 14:04
Naphthalene	< 345	ug/Kg		4/28/2015 14:04
Phenanthrene	< 345	ug/Kg		4/28/2015 14:04
Pyrene	< 345	ug/Kg		4/28/2015 14:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**34.3**	46.3 - 96.9	*	4/28/2015 14:04
Nitrobenzene-d5	**32.3**	39.7 - 90.9	*	4/28/2015 14:04
Terphenyl-d14	**54.8**	56.8 - 119	*	4/28/2015 14:04

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/28/2015
Data File: B04813.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
1,3,5-Trimethylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
Benzene	< 8.18	ug/Kg		4/27/2015 15:27

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier:	LNAPL-21 (8-10')		
Lab Sample ID:	151532-03	**Date Sampled:**	4/23/2015
Matrix:	Soil	**Date Received:**	4/27/2015

Ethylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
Isopropylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
m,p-Xylene	< 8.18	ug/Kg		4/27/2015 15:27
Methyl tert-butyl Ether	< 8.18	ug/Kg		4/27/2015 15:27
Naphthalene	< 20.5	ug/Kg		4/27/2015 15:27
n-Butylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
n-Propylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
o-Xylene	< 8.18	ug/Kg		4/27/2015 15:27
p-Isopropyltoluene	< 8.18	ug/Kg		4/27/2015 15:27
sec-Butylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
tert-Butylbenzene	< 8.18	ug/Kg		4/27/2015 15:27
Toluene	< 8.18	ug/Kg		4/27/2015 15:27

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**97.8**	80.6 - 125		4/27/2015 15:27
4-Bromofluorobenzene	**99.5**	86.6 - 111		4/27/2015 15:27
Pentafluorobenzene	**99.5**	90.9 - 107		4/27/2015 15:27
Toluene-D8	**99.0**	90.8 - 109		4/27/2015 15:27

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22196.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-22 (14-15')
Lab Sample ID: 151532-04 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**351**	ug/Kg		4/28/2015 14:32
Acenaphthylene	< 314	ug/Kg		4/28/2015 14:32
Anthracene	< 314	ug/Kg		4/28/2015 14:32
Benzo (a) anthracene	< 314	ug/Kg		4/28/2015 14:32
Benzo (a) pyrene	< 314	ug/Kg		4/28/2015 14:32
Benzo (b) fluoranthene	< 314	ug/Kg		4/28/2015 14:32
Benzo (g,h,i) perylene	< 314	ug/Kg		4/28/2015 14:32
Benzo (k) fluoranthene	< 314	ug/Kg		4/28/2015 14:32
Chrysene	< 314	ug/Kg		4/28/2015 14:32
Dibenz (a,h) anthracene	< 314	ug/Kg		4/28/2015 14:32
Fluoranthene	< 314	ug/Kg		4/28/2015 14:32
Fluorene	< 314	ug/Kg		4/28/2015 14:32
Indeno (1,2,3-cd) pyrene	< 314	ug/Kg		4/28/2015 14:32
Naphthalene	< 314	ug/Kg		4/28/2015 14:32
Phenanthrene	< 314	ug/Kg		4/28/2015 14:32
Pyrene	< 314	ug/Kg		4/28/2015 14:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**54.8**	46.3 - 96.9		4/28/2015 14:32
Nitrobenzene-d5	**45.9**	39.7 - 90.9		4/28/2015 14:32
Terphenyl-d14	**63.1**	56.8 - 119		4/28/2015 14:32

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/28/2015
Data File: B04814.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 10.9	ug/Kg		4/27/2015 14:13
1,3,5-Trimethylbenzene	< 10.9	ug/Kg		4/27/2015 14:13
Benzene	< 10.9	ug/Kg		4/27/2015 14:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151532

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-22 (14-15')
Lab Sample ID: 151532-04 **Date Sampled:** 4/23/2015
Matrix: Soil **Date Received:** 4/27/2015

Ethylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
Isopropylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
m,p-Xylene	< 10.9	ug/Kg	4/27/2015	14:13
Methyl tert-butyl Ether	< 10.9	ug/Kg	4/27/2015	14:13
Naphthalene	< 27.3	ug/Kg	4/27/2015	14:13
n-Butylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
n-Propylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
o-Xylene	< 10.9	ug/Kg	4/27/2015	14:13
p-Isopropyltoluene	< 10.9	ug/Kg	4/27/2015	14:13
sec-Butylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
tert-Butylbenzene	< 10.9	ug/Kg	4/27/2015	14:13
Toluene	< 10.9	ug/Kg	4/27/2015	14:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	80.6 - 125		4/27/2015	14:13
4-Bromofluorobenzene	**107**	86.6 - 111		4/27/2015	14:13
Pentafluorobenzene	**98.8**	90.9 - 107		4/27/2015	14:13
Toluene-D8	**99.6**	90.8 - 109		4/27/2015	14:13

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22193.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Groundwater & Environmental Services	COMPANY:	
ADDRESS:	495 Aero Drive, Suite 3	ADDRESS:	
CITY:	Cheektowaga STATE: NY ZIP: 14225	CITY: STATE: ZIP:	
PHONE:	800-287-7857 FAX: 866-902-2187	PHONE: FAX:	
ATTN:	Eric Popken	ATTN:	Eric Popken

LAB PROJECT #: 151532
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
Due COB 4/29/15 STD OTHER
☐ 1 ☐ 2 ☒ 3 ☐ 5

PROJECT NAME/SITE NAME: Brightfields Tract II

COMMENTS: Please provide a case narrative with final report.
Quotes #JH040115, JH101514

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	8260 STARS VOCs	8270 STARS SVOCs								REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	4/23/15	950		X	LNAPL - 19 (10-10.5')	Soil	1	x	x									01	
2		1125		X	LNAPL -20 (14-15')	Soil	1	x	x									02	
3		1200		X	LNAPL-21 (8-10')	Soil	1	x	x									03	
4		1400		X	LNAPL-22 (14-15')	Soil	1	x	x									04	
5				X		Soil		x	x										
6				X		Soil		x	x										
7				X		Soil		x	x										
8				X		Soil		x	x										
9				X		Soil		x	x										
10				X		Soil		x	x										

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ iced 4°C 4/27/15 10:02

Sampled By: ERIC POPKEN	Date/Time: 4/23/15	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time: 4/23/15 16:00	Received By:	Date/Time:	
Received By:	Date/Time: 4/24/15 1602	Received @ Lab By:	Date/Time: 4/27/15 10:40	P.I.F.

Chain of Custody Supplement

Client: Groundwater & Environmental Services **Completed by:** Glenn Pezanko

Lab Project ID: 151532 **Date:** 4/27/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	4°C iced		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Groundwater & Environmental Services

For Lab Project ID

151553

Referencing

Brightfields Tract II

Prepared

Friday, May 01, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

K R Dawson

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.
WWW.PARADIGMENV.COM
179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

Laboratory Project Narrative

Client: Groundwater & Environmental Services
Project Name: Brightfields Tract II
Lab Project Number: 151553

Three soil samples were collected on 4/27/2015 and submitted to Paradigm for Volatile 8260 STARS and Semivolatile 8270 STARS analysis. The samples were received at the Paradigm laboratory on 4/28/2015 with NELAC compliance issues as noted on the Chain of Custody Supplement Sample Condition Report.

For VOCs, all analytical quality control measures including blanks, surrogates, calibrations, and Laboratory Control Spikes, were compliant within method specifications.

For SVOCs, all analytical quality control measures including blanks, surrogates, calibrations, and Laboratory Control Spikes, were compliant within method specifications.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-24 (14-14.5')
Lab Sample ID: 151553-01 **Date Sampled:** 4/27/2015
Matrix: Soil **Date Received:** 4/28/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 324	ug/Kg		4/30/2015 14:08
Acenaphthylene	< 324	ug/Kg		4/30/2015 14:08
Anthracene	< 324	ug/Kg		4/30/2015 14:08
Benzo (a) anthracene	< 324	ug/Kg		4/30/2015 14:08
Benzo (a) pyrene	< 324	ug/Kg		4/30/2015 14:08
Benzo (b) fluoranthene	< 324	ug/Kg		4/30/2015 14:08
Benzo (g,h,i) perylene	< 324	ug/Kg		4/30/2015 14:08
Benzo (k) fluoranthene	< 324	ug/Kg		4/30/2015 14:08
Chrysene	< 324	ug/Kg		4/30/2015 14:08
Dibenz (a,h) anthracene	< 324	ug/Kg		4/30/2015 14:08
Fluoranthene	< 324	ug/Kg		4/30/2015 14:08
Fluorene	< 324	ug/Kg		4/30/2015 14:08
Indeno (1,2,3-cd) pyrene	< 324	ug/Kg		4/30/2015 14:08
Naphthalene	< 324	ug/Kg		4/30/2015 14:08
Phenanthrene	< 324	ug/Kg		4/30/2015 14:08
Pyrene	< 324	ug/Kg		4/30/2015 14:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**55.5**	46.3 - 96.9		4/30/2015 14:08
Nitrobenzene-d5	**50.8**	39.7 - 90.9		4/30/2015 14:08
Terphenyl-d14	**75.4**	56.8 - 119		4/30/2015 14:08

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/29/2015
Data File: B04870.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**8.87**	ug/Kg		4/29/2015 04:21
1,3,5-Trimethylbenzene	< 8.55	ug/Kg		4/29/2015 04:21
Benzene	< 8.55	ug/Kg		4/29/2015 04:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-24 (14-14.5')
Lab Sample ID: 151553-01 **Date Sampled:** 4/27/2015
Matrix: Soil **Date Received:** 4/28/2015

Ethylbenzene	< 8.55	ug/Kg	4/29/2015	04:21
Isopropylbenzene	< 8.55	ug/Kg	4/29/2015	04:21
m,p-Xylene	< 8.55	ug/Kg	4/29/2015	04:21
Methyl tert-butyl Ether	< 8.55	ug/Kg	4/29/2015	04:21
Naphthalene	< 21.4	ug/Kg	4/29/2015	04:21
n-Butylbenzene	**10.6**	ug/Kg	4/29/2015	04:21
n-Propylbenzene	< 8.55	ug/Kg	4/29/2015	04:21
o-Xylene	< 8.55	ug/Kg	4/29/2015	04:21
p-Isopropyltoluene	< 8.55	ug/Kg	4/29/2015	04:21
sec-Butylbenzene	< 8.55	ug/Kg	4/29/2015	04:21
tert-Butylbenzene	< 8.55	ug/Kg	4/29/2015	04:21
Toluene	< 8.55	ug/Kg	4/29/2015	04:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	80.6 - 125		4/29/2015	04:21
4-Bromofluorobenzene	**108**	86.6 - 111		4/29/2015	04:21
Pentafluorobenzene	**99.3**	90.9 - 107		4/29/2015	04:21
Toluene-D8	**101**	90.8 - 109		4/29/2015	04:21

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22285.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-26 (14-15')
Lab Sample ID: 151553-02 **Date Sampled:** 4/27/2015
Matrix: Soil **Date Received:** 4/28/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 323	ug/Kg		4/30/2015 14:36
Acenaphthylene	< 323	ug/Kg		4/30/2015 14:36
Anthracene	< 323	ug/Kg		4/30/2015 14:36
Benzo (a) anthracene	< 323	ug/Kg		4/30/2015 14:36
Benzo (a) pyrene	< 323	ug/Kg		4/30/2015 14:36
Benzo (b) fluoranthene	< 323	ug/Kg		4/30/2015 14:36
Benzo (g,h,i) perylene	< 323	ug/Kg		4/30/2015 14:36
Benzo (k) fluoranthene	< 323	ug/Kg		4/30/2015 14:36
Chrysene	< 323	ug/Kg		4/30/2015 14:36
Dibenz (a,h) anthracene	< 323	ug/Kg		4/30/2015 14:36
Fluoranthene	< 323	ug/Kg		4/30/2015 14:36
Fluorene	< 323	ug/Kg		4/30/2015 14:36
Indeno (1,2,3-cd) pyrene	< 323	ug/Kg		4/30/2015 14:36
Naphthalene	< 323	ug/Kg		4/30/2015 14:36
Phenanthrene	< 323	ug/Kg		4/30/2015 14:36
Pyrene	< 323	ug/Kg		4/30/2015 14:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**62.9**	46.3 - 96.9		4/30/2015 14:36
Nitrobenzene-d5	**59.3**	39.7 - 90.9		4/30/2015 14:36
Terphenyl-d14	**81.4**	56.8 - 119		4/30/2015 14:36

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 4/29/2015
Data File: B04871.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**24.4**	ug/Kg		4/29/2015 04:45
1,3,5-Trimethylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
Benzene	< 7.55	ug/Kg		4/29/2015 04:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier:	LNAPL-26 (14-15')		
Lab Sample ID:	151553-02	**Date Sampled:**	4/27/2015
Matrix:	Soil	**Date Received:**	4/28/2015

Ethylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
Isopropylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
m,p-Xylene	**8.63**	ug/Kg		4/29/2015 04:45
Methyl tert-butyl Ether	< 7.55	ug/Kg		4/29/2015 04:45
Naphthalene	< 18.9	ug/Kg		4/29/2015 04:45
n-Butylbenzene	**8.79**	ug/Kg		4/29/2015 04:45
n-Propylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
o-Xylene	< 7.55	ug/Kg		4/29/2015 04:45
p-Isopropyltoluene	< 7.55	ug/Kg		4/29/2015 04:45
sec-Butylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
tert-Butylbenzene	< 7.55	ug/Kg		4/29/2015 04:45
Toluene	< 7.55	ug/Kg		4/29/2015 04:45

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**105**	80.6 - 125		4/29/2015 04:45
4-Bromofluorobenzene	**108**	86.6 - 111		4/29/2015 04:45
Pentafluorobenzene	**100**	90.9 - 107		4/29/2015 04:45
Toluene-D8	**100**	90.8 - 109		4/29/2015 04:45

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x22286.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-19
Lab Sample ID: 151553-03 **Date Sampled:** 4/27/2015
Matrix: Water **Date Received:** 4/28/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		4/30/2015 15:04
Acenaphthylene	< 10.0	ug/L		4/30/2015 15:04
Anthracene	< 10.0	ug/L		4/30/2015 15:04
Benzo (a) anthracene	< 10.0	ug/L		4/30/2015 15:04
Benzo (a) pyrene	< 10.0	ug/L		4/30/2015 15:04
Benzo (b) fluoranthene	< 10.0	ug/L		4/30/2015 15:04
Benzo (g,h,i) perylene	< 10.0	ug/L		4/30/2015 15:04
Benzo (k) fluoranthene	< 10.0	ug/L		4/30/2015 15:04
Chrysene	< 10.0	ug/L		4/30/2015 15:04
Dibenz (a,h) anthracene	< 10.0	ug/L		4/30/2015 15:04
Fluoranthene	< 10.0	ug/L		4/30/2015 15:04
Fluorene	< 10.0	ug/L		4/30/2015 15:04
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		4/30/2015 15:04
Naphthalene	< 10.0	ug/L		4/30/2015 15:04
Phenanthrene	< 10.0	ug/L		4/30/2015 15:04
Pyrene	< 10.0	ug/L		4/30/2015 15:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**44.0**	20.2 - 94.7		4/30/2015 15:04
Nitrobenzene-d5	**76.3**	44.4 - 95.7		4/30/2015 15:04
Terphenyl-d14	**82.7**	55.1 - 112		4/30/2015 15:04

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/29/2015
Data File: B04872.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/29/2015 15:25
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/29/2015 15:25
Benzene	< 0.700	ug/L		4/29/2015 15:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151553

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-19
Lab Sample ID: 151553-03 **Date Sampled:** 4/27/2015
Matrix: Water **Date Received:** 4/28/2015

Ethylbenzene	< 2.00	ug/L	4/29/2015	15:25
Isopropylbenzene	< 2.00	ug/L	4/29/2015	15:25
m,p-Xylene	< 2.00	ug/L	4/29/2015	15:25
Methyl tert-butyl Ether	< 2.00	ug/L	4/29/2015	15:25
Naphthalene	< 5.00	ug/L	4/29/2015	15:25
n-Butylbenzene	< 2.00	ug/L	4/29/2015	15:25
n-Propylbenzene	< 2.00	ug/L	4/29/2015	15:25
o-Xylene	< 2.00	ug/L	4/29/2015	15:25
p-Isopropyltoluene	< 2.00	ug/L	4/29/2015	15:25
sec-Butylbenzene	< 2.00	ug/L	4/29/2015	15:25
tert-Butylbenzene	< 2.00	ug/L	4/29/2015	15:25
Toluene	< 2.00	ug/L	4/29/2015	15:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**94.1**	82.3 - 115		4/29/2015	15:25
4-Bromofluorobenzene	**105**	85.5 - 111		4/29/2015	15:25
Pentafluorobenzene	**103**	91.2 - 107		4/29/2015	15:25
Toluene-D8	**100**	90.9 - 108		4/29/2015	15:25

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22299.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Groundwater & Environmental Services	COMPANY:	
ADDRESS:	495 Aero Drive, Suite 3	ADDRESS:	
CITY:	Cheektowaga STATE: NY ZIP: 14225	CITY: STATE: ZIP:	
PHONE:	800-287-7857 FAX: 866-902-2187	PHONE: FAX:	
ATTN:	Eric Popken	ATTN:	Eric Popken

LAB PROJECT #: 15153
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
Due 5/1/15
STD OTHER
☐ 1 ☐ 2 ☒ 3 ☐ 5

PROJECT NAME/SITE NAME: Brightfields Tract II

COMMENTS: Please provide a case narrative with final report.
Quotes #JH040115, JH101514

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	8260 STARS VOCs	8270 STARS SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 4/27/15	1200		X	LNAPL-~~25~~ 24 (14-14.5') CPC EP KRH 5/1/15	Soil	1	x	x		01
2 ✓	1435		X	LNAPL-26(14-15')	Soil	1	x	x		02
3 ✓	1500		X	LNAPL-~~19~~	~~Soil~~ WATER	~~5~~ 4	x	x		03
4			X		Soil	per visual ID 4/28/15	x	x		
5			X		Soil		x	x		
6			X		Soil		x	x		
7			X		Soil		x	x		
8			X		Soil		x	x		
9			X		Soil		x	x		
10			X		Soil		x	x		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 5°C iced 4/28/15 09:02

Sampled By: E. Popken	Date/Time: 4/27/15	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time: 4/27/15 1620	Received By:	Date/Time:	
Received By:	Date/Time: 4/27/15 16:20	Received @ Lab By:	Date/Time: 4/28/15 10:09	P.I.F.

PARADIGM

Chain of Custody Supplement

Client: Groundwater & Environmental Services **Completed by:** Glenn Pezzulo

Lab Project ID: 151553 **Date:** 4/28/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	☒	☒ SOPS	☐
Comments			
Transferred to method-compliant container	☐	☐	☒
Headspace (<1 mL)	☒ VOA Water	☐	☒
Comments			
Preservation	☒ VOA Water	☐	☒
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☒
Comments			
Holding Time	☒	☐	☐
Comments			
Temperature	☒	☐	☐
Comments	5°C iced		
Sufficient Sample Quantity	☒	☐	☐
Comments			

PARADIGM

Analytical Report For

Groundwater & Environmental Services

For Lab Project ID

152002

Referencing

Brightfields Tract II

Prepared

Tuesday, May 26, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

KR Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-1 (4-5')
Lab Sample ID: 152002-01 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**427**	ug/Kg		5/22/2015 22:33
Acenaphthylene	< 304	ug/Kg		5/22/2015 22:33
Anthracene	**316**	ug/Kg		5/22/2015 22:33
Benzo (a) anthracene	< 304	ug/Kg		5/22/2015 22:33
Benzo (a) pyrene	< 304	ug/Kg		5/22/2015 22:33
Benzo (b) fluoranthene	< 304	ug/Kg		5/22/2015 22:33
Benzo (g,h,i) perylene	< 304	ug/Kg		5/22/2015 22:33
Benzo (k) fluoranthene	< 304	ug/Kg		5/22/2015 22:33
Chrysene	< 304	ug/Kg		5/22/2015 22:33
Dibenz (a,h) anthracene	< 304	ug/Kg		5/22/2015 22:33
Fluoranthene	< 304	ug/Kg		5/22/2015 22:33
Fluorene	**407**	ug/Kg		5/22/2015 22:33
Indeno (1,2,3-cd) pyrene	< 304	ug/Kg		5/22/2015 22:33
Naphthalene	< 304	ug/Kg		5/22/2015 22:33
Phenanthrene	**1100**	ug/Kg		5/22/2015 22:33
Pyrene	< 304	ug/Kg		5/22/2015 22:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**64.0**	35.9 - 103		5/22/2015 22:33
Nitrobenzene-d5	**53.6**	37.2 - 90.6		5/22/2015 22:33
Terphenyl-d14	**81.3**	58.2 - 113		5/22/2015 22:33

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/22/2015
Data File: B05301.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**443**	ug/Kg		5/21/2015 16:35
1,3,5-Trimethylbenzene	**102**	ug/Kg		5/21/2015 16:35
Benzene	< 65.0	ug/Kg		5/21/2015 16:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-1 (4-5')
Lab Sample ID: 152002-01 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Ethylbenzene	< 65.0	ug/Kg		5/21/2015 16:35
Isopropylbenzene	< 65.0	ug/Kg		5/21/2015 16:35
m,p-Xylene	< 65.0	ug/Kg		5/21/2015 16:35
Methyl tert-butyl Ether	< 65.0	ug/Kg		5/21/2015 16:35
Naphthalene	**1430**	ug/Kg		5/21/2015 16:35
n-Butylbenzene	**122**	ug/Kg		5/21/2015 16:35
n-Propylbenzene	< 65.0	ug/Kg		5/21/2015 16:35
o-Xylene	**68.8**	ug/Kg		5/21/2015 16:35
p-Isopropyltoluene	< 65.0	ug/Kg		5/21/2015 16:35
sec-Butylbenzene	< 65.0	ug/Kg		5/21/2015 16:35
tert-Butylbenzene	< 65.0	ug/Kg		5/21/2015 16:35
Toluene	< 65.0	ug/Kg		5/21/2015 16:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	80.6 - 125		5/21/2015 16:35
4-Bromofluorobenzene	**105**	86.6 - 111		5/21/2015 16:35
Pentafluorobenzene	**101**	90.9 - 107		5/21/2015 16:35
Toluene-D8	**99.0**	90.8 - 109		5/21/2015 16:35

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22984.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-2 (3-5')
Lab Sample ID: 152002-02 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**646**	ug/Kg		5/22/2015 23:01
Acenaphthylene	< 334	ug/Kg		5/22/2015 23:01
Anthracene	**335**	ug/Kg		5/22/2015 23:01
Benzo (a) anthracene	**431**	ug/Kg		5/22/2015 23:01
Benzo (a) pyrene	< 334	ug/Kg		5/22/2015 23:01
Benzo (b) fluoranthene	< 334	ug/Kg		5/22/2015 23:01
Benzo (g,h,i) perylene	< 334	ug/Kg		5/22/2015 23:01
Benzo (k) fluoranthene	< 334	ug/Kg		5/22/2015 23:01
Chrysene	**446**	ug/Kg		5/22/2015 23:01
Dibenz (a,h) anthracene	< 334	ug/Kg		5/22/2015 23:01
Fluoranthene	**1040**	ug/Kg		5/22/2015 23:01
Fluorene	**843**	ug/Kg		5/22/2015 23:01
Indeno (1,2,3-cd) pyrene	< 334	ug/Kg		5/22/2015 23:01
Naphthalene	< 334	ug/Kg		5/22/2015 23:01
Phenanthrene	**544**	ug/Kg		5/22/2015 23:01
Pyrene	**1240**	ug/Kg		5/22/2015 23:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**55.3**	35.9 - 103		5/22/2015 23:01
Nitrobenzene-d5	**49.3**	37.2 - 90.6		5/22/2015 23:01
Terphenyl-d14	**82.5**	58.2 - 113		5/22/2015 23:01

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/22/2015
Data File: B05302.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	**14.7**	ug/Kg		5/21/2015 16:59
1,3,5-Trimethylbenzene	< 9.44	ug/Kg		5/21/2015 16:59
Benzene	< 9.44	ug/Kg		5/21/2015 16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-2 (3-5')
Lab Sample ID: 152002-02 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Ethylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
Isopropylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
m,p-Xylene	< 9.44	ug/Kg	5/21/2015	16:59
Methyl tert-butyl Ether	< 9.44	ug/Kg	5/21/2015	16:59
Naphthalene	< 23.6	ug/Kg	5/21/2015	16:59
n-Butylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
n-Propylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
o-Xylene	< 9.44	ug/Kg	5/21/2015	16:59
p-Isopropyltoluene	< 9.44	ug/Kg	5/21/2015	16:59
sec-Butylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
tert-Butylbenzene	< 9.44	ug/Kg	5/21/2015	16:59
Toluene	< 9.44	ug/Kg	5/21/2015	16:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	80.6 - 125		5/21/2015	16:59
4-Bromofluorobenzene	**105**	86.6 - 111		5/21/2015	16:59
Pentafluorobenzene	**107**	90.9 - 107		5/21/2015	16:59
Toluene-D8	**100**	90.8 - 109		5/21/2015	16:59

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22985.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-9 (6-8')
Lab Sample ID: 152002-03 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**479**	ug/Kg		5/22/2015 23:29
Acenaphthylene	< 311	ug/Kg		5/22/2015 23:29
Anthracene	< 311	ug/Kg		5/22/2015 23:29
Benzo (a) anthracene	< 311	ug/Kg		5/22/2015 23:29
Benzo (a) pyrene	< 311	ug/Kg		5/22/2015 23:29
Benzo (b) fluoranthene	< 311	ug/Kg		5/22/2015 23:29
Benzo (g,h,i) perylene	< 311	ug/Kg		5/22/2015 23:29
Benzo (k) fluoranthene	< 311	ug/Kg		5/22/2015 23:29
Chrysene	< 311	ug/Kg		5/22/2015 23:29
Dibenz (a,h) anthracene	< 311	ug/Kg		5/22/2015 23:29
Fluoranthene	< 311	ug/Kg		5/22/2015 23:29
Fluorene	< 311	ug/Kg		5/22/2015 23:29
Indeno (1,2,3-cd) pyrene	< 311	ug/Kg		5/22/2015 23:29
Naphthalene	< 311	ug/Kg		5/22/2015 23:29
Phenanthrene	< 311	ug/Kg		5/22/2015 23:29
Pyrene	< 311	ug/Kg		5/22/2015 23:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**52.3**	35.9 - 103		5/22/2015 23:29
Nitrobenzene-d5	**49.0**	37.2 - 90.6		5/22/2015 23:29
Terphenyl-d14	**75.4**	58.2 - 113		5/22/2015 23:29

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 5/22/2015
Data File: B05303.D

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
1,3,5-Trimethylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
Benzene	< 7.48	ug/Kg		5/21/2015 17:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 152002

Client: **Groundwater & Environmental Services**

Project Reference: Brightfields Tract II

Sample Identifier: LNAPL-9 (6-8')
Lab Sample ID: 152002-03 **Date Sampled:** 5/19/2015
Matrix: Soil **Date Received:** 5/21/2015

Ethylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
Isopropylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
m,p-Xylene	< 7.48	ug/Kg		5/21/2015 17:23
Methyl tert-butyl Ether	< 7.48	ug/Kg		5/21/2015 17:23
Naphthalene	< 18.7	ug/Kg		5/21/2015 17:23
n-Butylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
n-Propylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
o-Xylene	< 7.48	ug/Kg		5/21/2015 17:23
p-Isopropyltoluene	< 7.48	ug/Kg		5/21/2015 17:23
sec-Butylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
tert-Butylbenzene	< 7.48	ug/Kg		5/21/2015 17:23
Toluene	< 7.48	ug/Kg		5/21/2015 17:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.2**	80.6 - 125		5/21/2015 17:23
4-Bromofluorobenzene	**102**	86.6 - 111		5/21/2015 17:23
Pentafluorobenzene	**105**	90.9 - 107		5/21/2015 17:23
Toluene-D8	**97.0**	90.8 - 109		5/21/2015 17:23

Method Reference(s): EPA 8260C
EPA 5035A
Data File: x22986.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Groundwater & Environmental Services	CLIENT:	Same	152002
ADDRESS:	495 Aero Drive, Suite 3	ADDRESS:		Quotation #: JH040115, JH101514
CITY:	Cheektowaga STATE: NY ZIP: 14225	CITY:	STATE: ZIP:	
PHONE:	800-287-7857	PHONE:		Email: epopken@gesonline.com
ATTN:	Eric Popken	ATTN:		

PROJECT REFERENCE

Brightfields Tract II

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 STARS VOCs	8270 STARS SVOCs									REMARKS	PARADIGM LAB SAMPLE NUMBER	
5/19/15	905		x	LNAPL-1 (4-5')	SO	1	x	x										0	1
5/19/15	920		x	LNAPL-2 (3-5')	SO	1	x	x										0	2
5/19/15	945		x	LNAPL-9 (6-8')	SO	1	x	x										0	3

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	Batch QC	☐	Basic EDD ☐
Rush 3 day	☒	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Other please indicate: 5 Due COB 5/26 60% 5/21/15	☐	Other please indicate:	☐	Other EDD please indicate: ☐

Eric Popken	5/19/15	Total Cost:
Sampled By	Date/Time	
Relinquished By	5/20/15 10:30	
Received By	5/20/15 10:30	P.I.F.
Received @ Lab By	5/21/15 11:57	

5°C iced 5/21/15 11:40

See additional page for sample conditions.

Chain of Custody Supplement

Client: Groundwater & Env. Services Completed by: Glenn Pezzulo

Lab Project ID: 152002 Date: 5/21/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			✓
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	5°C iced		
Sufficient Sample Quantity	X		
Comments			

APPENDIX B

Photo-documentation of Investigation Activities

Initial NAPL discovery at test pit LNAPL-1 (T2-E4 location) on February 3, 2015, which was excavated to top of bedrock. (Approximate depth 6 feet below the then current grade). Photo and description provided by AMEC.

Re-excavation at test pit LNAPL-1 on February 10, 2015. Photo and description provided by AMEC.

Bedrock exposed at test pit LNAPL-1. Photo and description provided by AMEC.

Test pit LNAPL-1 widened to three bucket-widths (as NAPL impact not as prominent as was observed on February 3, 2015). Photo and description provided by AMEC.

Test pit LNAPL-2 (~25 feet west of LNAPL-1) immediately following excavation on February 10, 2015. Photo and description provided by AMEC.

Accumulation of NAPL in test pit LNAPL-2 one day after excavation. Photo and description provided by AMEC.

Test pit LNAPL-3 – no NAPL observed. (Photo typical of additional Test Pits). Photo and description provided by AMEC.

View of test pit LNAPL-2 on March 20, 2015 with NAPL accumulated on surface of water.

View of test pit LNAPL-10 upon completion on April 23, 2015. No NAPL was observed.

View of test pit LNAPL-11 upon completion on April 23, 2015. No NAPL was observed.

View of test pit LNAPL-12 upon completion on April 23, 2015 showing slight sheen on water at bottom of test pit.

View of test pit LNAPL-13 upon completion on April 23, 2015.

View of test pit LNAPL-14 upon completion on April 23, 2015, showing sheen on water at bottom of test pit.

View of test pit LNAPL-15 upon completion on April 23, 2015. No NAPL was observed.

View of test pit LNAPL-16 upon completion on April 23, 2015, showing exposed bedrock.

View of test pit LNAPL-17 upon completion on April 23, 2015.

View of test pit LNAPL-20 during advancement on April 24, 2015, showing NAPL impacts.

View of soil excavated from test pit LNPAL-20, showing NAPL impacts. This was segregated and transported for landfill disposal.

View of test pit LNAPL-21 during advancement on April 24, 2015. No NAPL impacts were observed.

View of test pit LNAPL-23 during advancement on April 27, 2015. The test pit was terminated prior to reaching bedrock due to undermining and caving as shown in this photograph. No NAPL impacts were observed during advancement of the test pit.

View of test pit LNAPL-24, showing NAPL entering test pit on April 27, 2015.

View of test pit LNAPL-2 upon re-excavation on May 19, 2015.

View of test pit LNAPL-9 upon re-excavation on May 19, 2015.

View of a piece of the pipe that was removed from the subsurface at test pit LNAPL-20 on May 19, 2015.

View of hydrophobic sorbent pads on surface of test pit used for the collection of NAPL in May 2015.

APPENDIX C

Test Pit Logs

TEST PIT LOG

ID NO.: **LNAPL-1 Repeat**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.:
WATER DEPTH: **4'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **5/19/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0				No recovery.		NA
1	9:00	19.9	1-3'	Clayey silt, little fine to medium sand, brown-gray, moist, petroleum odors		
2						
3	9:05	22.3	3-5'	Sandy silt and fine to coarse gravel, brown, wet, petroleum odors, LNAPL on water		
4					Sample collected for analysis.	
5					Bedrock encountered at 5'.	

Location:
Northing/Latitude:
Easting/Longitude:
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-2 Repeat**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.:
WATER DEPTH: **4'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **5/19/2015**
Excavating Company: **OSC**
Rig Type: **NA**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0				No recovery.		NA
1	9:15	0.8	1-3'	Clayey silt, little fine to medium sand, brown, moist, petroleum odors		
2						
3	9:20	1.6	3-5'	Clayey silt, little to some fine to coarse sand, little to some fine to coarse gravel, gray, wet, petroleum odor, LNAPL on water		
4					Sample collected for analysis.	
5					Bedrock encountered at 5'.	

Location:
Northing/Latitude:
Easting/Longitude:
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-9 Repeat**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.:
WATER DEPTH: **7'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **8'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **5/19/2015**
Excavating Company: **OSC**
Rig Type: **NA**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0				No recovery.		NA
2	9:30	0.0	2-4'	Silty clay, little fine sand, brown, dry to moist		
4	9:40	0.2	4-6'	Clayey silt, , little fine-medium sand, brown, moist to wet, petroleum odors		
6	9:45	0.9	6-8'	Fine to coarse sand, trace gravel, little silt, gray, wet, petroleum odors	Sample collected from 6-8' for analysis.	
8					Bedrock encountered at 8'.	

Location:
Northing/Latitude:
Easting/Longitude:
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-10**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **578.610'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **6.7'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	9:30	0.0	0-2'	Clayey fill, brown, concrete, brick, moist, no odor		NA
2	9:38	0.0	2-4'	Silty clay, brown, little gray clay, moist, no odor		
4	9:45	0.0	4-6'	Silty clay, brown, little gray clay, moist, no odor		
6	9:50	0.0	6-6'8"	Silty clay, brown, little gray clay, moist, no odor	Bedrock encountered at 6'8". No sign of impacts, no samples collected.	
7						

Location:
Northing/Latitude: **1135679.636**
Easting/Longitude: **1025167.858**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-11**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **582.464'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **10.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	10:43	0.0	0-2'	Silty clay, brown, moist, no odor		NA
2	10:48	0.3	2-4.5'	Silty clay, brown, moist, some brick debris, no odor		
4	10:52	0.5	4.5-6'	Clay with silt, brown, moist, no odor		
6	10:56	0.0	6'	Black organic silty layer		
	11:00	0.0	6-8'	Clay, dense, blue-gray, few thin black organic layers, no odor		
8	11:03	0.0	8-10.5'	Silty clay, gray-brown, dry, no odor		
10					Bedrock encountered at 10.5'. No sign of impacts, no samples collected.	

Location:
Northing/Latitude: **1135730.255**
Easting/Longitude: **1025177.417**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-12**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **580.991'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **10'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	11:15	0.0	0-2'	Silty clay, brown, moist, no odor		NA
2	11:20	0.0	2-4'	Silty clay, brown, moist, some bricks and debris, no odor		
4	11:26	0.0	4'	Black organic silt		
	11:30	0.0	4-6'	Silty clay, brown, some black organic material, no odor		
6	11:35	0.0	6-8'	Silty clay, gray-brown to brown, moist, no odor		
8	11:38	0.0	8-10'	Clay, gray to blue-gray, dense, dry		
10	11:40	3.8	10'	Silty clay, blue-gray, coarse gravel, west, slight odor	Bedrock encountered at 10'. Visible sheen at bottom, sample collected at 12:15.	

Location:
Northing/Latitude: **1135735.553**
Easting/Longitude: **1025206.874**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-13**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **578.326'**
WATER DEPTH: **8.5'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **8.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	12:45	0.0	0-2'	Silty fill, brown, large concrete debris, moist, no odor		NA
2	12:50	2.6	2-4'	Silty clay, brown and gray, mottled, moist, no odor		
4	12:55	1.7	4-6'	Clay, brown, some silt, moist, no odor		
6	13:03	0.2	6-8'	Clay, gray, dense, dry, no odor		
8	13:07	26.4	8-8.5'	Clayey silt with gravel, gray, saturated, slight odor	Bedrock encountered at 8.5'. Sheen on water at bottom, sampled at 13:10.	
9						

Location:
Northing/Latitude: **1135708.249**
Easting/Longitude: **1025226.032**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-14**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **579.072'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **6.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	13:16	0.0	0-2'	Silty fill with clay, brown, brick debris, concrete debris		NA
2	13:20	0.0	2-4'	Silty clay, brown, some small rubble, moist, no odor		
4	13:26	0.0	4-6'	Clayey silt, brown, moist, no odor		
6	13:30	0.0	6-6.5'	Clayey silt with some gravel, gray, dry, no odor	Bedrock encountered at 6.5'. No sign of impacts, no samples collected.	
7						

Location:
Northing/Latitude: **1135681.543**
Easting/Longitude: **1025273.791**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-15**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **575.447'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	13: 43	0.0	0-2'	Silty clay, brown, moist, no odor		NA
2	13:48	0.0	2-4'	Clayey silt, brown, lenses of clay, some cobbles and gravel		
4	13:55	0.0	4-5'	Silt, blue-gray, moist, no odor		
5					Bedrock encountered at 5'. No sign of impacts, no samples collected.	

Location:
Northing/Latitude: **1135640.952**
Easting/Longitude: **1025261.779**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-16**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **575.489'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **4'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	14:00	0.0	0-2'	Silty fill, rocks and some brick pieces, no odor		NA
2	14:07	0.0	2-4'	Silty clay, brown, trace grave, moist, no odor		
4					Bedrock encountered at 4'. Water encoutered at bottom with sheen.	

Location:
Northing/Latitude: **1135638.987**
Easting/Longitude: **1025221.602**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-17**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **576.267'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **4.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Tom Palmer**
Dates Drilled: **4/23/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	14:22	33.8	0-1'	Silt, black, rotten wood debris, gravel, moderate odor		NA
1	14:28	0.4	1-2'	Silty clay, gray, some mottling with brown clay, moist, no odor		
2	14:30	0.7	2-4'	Silty clay, brown and gray, mottled, moist, no odor	On east wall at 2.5' small spot of black liquid entering test pit.	
3						
4		3.7	4-4.5'	Silty clay, gray, dry, no odor		
				Silt, dark gray, sand layer with sheen and moderate odor		
5		48.6	4.5'		Sheen encountered, sampled at 15:00	

Location:
Northing/Latitude: **1135631.236**
Easting/Longitude: **1025191.142**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-18**

Groundwater & Environmental Services, Inc.

PROJECT:	**Brightfields Tract II**	SURFACE ELEV.:	**580.551'**	TOTAL DEPTH:	**9.5'**
ADDRESS:	**3001 Highland Ave, Niagara Falls, NY 14305**	WATER DEPTH:	**Not encountered**	CASING ELEV.:	**NA**
JOB NO.:	**0901616**	BOREHOLE DIAM.:	**NA**	WELL DIAM.:	**NA**

Logged By:	**Eric Popken**	Drilling Method:	**Test Pit**
Dates Drilled:	**4/24/2015**	Sampling Method:	**Test Pit**
Excavating Company:	**OSC**	Soil Class. System:	**Modified Burmister**
Rig Type:	**Excavator**	Field Screening:	**MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	8:35	0.0	0-2'	Fill gravel and sand, dark brown, moist, bricks, roots		NA
2	8:40	0.0	2-4'	Clayey silt, brown, tree roots/organics, moist, no odors		
4	8:45	0.0	4-6'	Silty clay, brown-gray, mosit, no odors		
6	8:50	0.0	6-8'	Silty clay, brown-gray, mosit, no odors		
8	8:55	0.0	8-9.5'	Silty clay, brown-gray, mosit, no odors		
9				Silty clay, gray, fine to coarse gravel, no odors	Rock encountered at 9.5'. No sign of impacts, no samples collected.	
10						

Location:
Northing/Latitude: **1135609.189**
Easting/Longitude: **1025162.826**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-19**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **581.515'**
WATER DEPTH: **10.5'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **10.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/24/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		NA
4	9:30	0.5	4-6'	Black organic layer, slight odor		
5				Clay and silt, gray		
6	9:35	33.1	6-7'	Silty clay, gray, hard, odor detected, no staining		
7	9:40	48.2	7-8'	Silty clay, gray-brown, hard, odor detected		
8	9:45	41.2	8-10'	Clay and silt, gray-brown, trace fine sand, odor		
10	9:50	52.1	10-10.5'	Clay and silt, gray-brown, trace fine sand, odor	Rock encountered at 10.5'. NAPL on water after 15 minutes, sampled at 9:50.	
11						

Location:
Northing/Latitude: **1135758.856**
Easting/Longitude: **1025232.113**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-20**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **583.410'**
WATER DEPTH: **14'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **15'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/24/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		NA
4	10:45	2.5	4-6'	Black organic layer		
5				Silty clay, brown, trace organics		
6	10:50	5.8	6-8'	Silty clay, brown, moist, brick, slight odor		
8	10:55	6.2	8-10'	Clay, gray, trace organics		
10	11:00	19.2	10-12'	Clay, gray, trace organics	Pipe uncovered running east-west at 10-10.5', 12" diameter, steel.	
12	11:15	14.6	12-14'	Clay, gray, trace organics		
14	11:25	28.6	14-15'	Sand and gravel, gray, trace silty clay, wet, NAPL in test pit		
15					Rock encountered.	

Location:
Northing/Latitude: **1135775.123**
Easting/Longitude: **1025188.148**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-21**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **583.363'**
WATER DEPTH: **18'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **20'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/24/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		Partially backfilled for safety
4	-	0.6	4-6'	Clayey silt, brown-gray, trace fine sand, trace fine gravel, trace fill		
6	-	0.1	6-8'	Fill, gravel, sand, brick, clay, organics		
8	12:00	24.6	8-10'	Silty clay, brown, hard, moist, slight odor	Sample collected at 12:00	
10	-	3.0	10-12'	Silty clay, brown, trace gravel, moist, slight odor		
12	-	0.2	12-14'	Silty clay, brown, trace gravel, moist, slight odor		
14	-	0.1	14-15'	Silty clay, brown, trace gravel, moist, slight odor		
15	-	4.6	15-18'	Silty clay, brown, trace gravel, moist to wet, slight odor	Rock encountered.	
18	-	-	18-20'	Silty clay, brown, trace gravel, wet, slight odor	Test pit caving in, cannot advance, no bedrock encountered.	

Location:
Northing/Latitude: **1135825.831**
Easting/Longitude: **1025181.697**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-22**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **583.372'**
WATER DEPTH: **12'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **19'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/24/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		Partially backfilled for safety
4	-	5.2	4-6'	Clayey silt, gray, trace fine to coarse sand, trace bricks		
6	-	6.2	6-8'	Clayey silt, brown, trace fine to coarse sand, trace bricks		
8	-	6.1	8-10'	Silty clay, brown, trace brick fragments	Sample collected at 14:00	
10	-	36.0	10-12'	Silty clay, brown, trace brick fragments		
12	14:00	66.6	12-14'	Fine to coarse sand and gravel, gray, product on gravel, wet, odor		
14	-	11.6	14-16'	Fine to coarse sand and gravel, gray, product on gravel, wet, odor	NAPL at 14-15'.	
15	-					
16		4.1	16-18'	Fine to coarse sand and gravel, gray, wet, odor		
18	-	5.0	18-19'	Fine to coarse sand and gravel, gray, wet, sheen, odor		
19					Rock encountered,	

Location:
Northing/Latitude: **1135797.665**
Easting/Longitude: **1025223.290**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-23**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **583.666'**
WATER DEPTH: **12'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **21'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/27/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		Partially backfilled for safety
4	9:25	0.2	4-6'	Fill clay and silt, fine to coarse gravel and sand, bricks, wood, organics		
6	9:35	0.6	6-8'	Black organic layer, silt, slight odor		
8	9:40	0.8	8-10'	Silty clay, gray, trace fince sand moist, no odor		
10	9:45	0.3	10-12'	Fine to coarse gravel and sand, gray, wet, water in test pit, no odors		
12	9:50	0.4	12-16'	Clayey silt, brown, fine to coarse sand, little fine to coarse gravel, moist, wet, no odors	Water in test pit.	
16	10:00	0.2	16-18'	Clayey silt, brown, fine to coarse sand, little fine to coarse gravel, moist, wet, no odors		
18	10:55	0.2	18-20'	Fine to coarse gravel and sand, gray, boulders, saturated	Rock encountered, sheen encountered. Test Pit caving at 20-21', cannot advance. No samples collected.	
21						

Location:
Northing/Latitude: **1135778.281**
Easting/Longitude: **1025147.661**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-24**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **581.689'**
WATER DEPTH: **14'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **14.5'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/27/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	-	-	0-4'	Fill clay cover, no sample		NA
4	11:30	-	4-5'	Black organic layer		
5	11:30	-	5-6'	Clayey silt, gray		
6	11:35	14.2	6-8'	Silty clay, gray, trace fine sand, no odors		
8	11:40	5.5	8-10'	Silty clay, gray, trace fine sand, no odors		
10	11:45	5.6	10-12'	Silty clay, gray, trace fine sand, no odors		
12	11:50	36.8	12-14'	Fine to coarse gravel and sand, gray, dark NAPL on water in test pit, large boulders with NAPL		
14	12:00	40.1	14-14.5'	Fine to coarse gravel and sand, gray, dark NAPL on water in test pit, large boulders with NAPL	Water in test pit. Bedrock encountered, sample collected at 12:00.	
15						

Location:
Northing/Latitude: **1135798.626**
Easting/Longitude: **1025266.444**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-25**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **582.558'**
WATER DEPTH: **Not encountered**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **22'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/27/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0–4	12:10	0.1	0-4'	Fill clay cover, no sample		NA
4–6	12:15	0.0	4-6'	Fine to medium sand, red-brown, no odors		
6–8	12:20	1.5	6-8'	Black organic layer, wood pieces		
8–10	12:25	3.7	8-10'	Silty clay, gray		
10–12	12:30	0.6	10-12'	Silty clay, gray		
12–14	12:35	0.2	12-14'	Fine to coarse sand and gravel, brown, occasional boulders, no odors		
14–18	12:45	0.4	14-18'	Clayey silt, brown, trace gravel, trace fine sand, moist		
18–20	13:00	0.1	18-20'	Clayey silt, brown, trace gravel, trace fine sand, moist		
20–22	13:15	0.1	20-22'	Rock and fine to coarse gravel	Possible bedrock encountered, test pit caving in, cannot advance.	

Location:
Northing/Latitude: **1135844.640**
Easting/Longitude: **1025257.985**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-26**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **580.560'**
WATER DEPTH: **14'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **15'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **4/27/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	14:00	0.0	0-2'	Fill clay cover		NA
2	14:05	0.3	2-4'	Fill sand and gravel, clay, bricks, organics		
4	14:10	0.8	4-6'	Clayey silt, brown-gray, hard, no odors		
6	14:15	1.3	6-8'	Clayey silt, brown-gray, hard, no odors		
8	14:20	1.6	8-10'	Silty clay, gray-brown		
10	14:25	5.8	10-12'	Silty clay, gray-brown		
12	14:30	14.2	12-14'	Fine to coarse sand, gray, little fine to coarse gravel, wet, water in pit	Sulfur odor.	
14	14:35	31.8	14-15'	Fine to coarse sand, gray, little fine to coarse gravel, wet, water in pit	Water in test pit. Rock encountered, sample collected at 14:35.	
15						

Location:
Northing/Latitude: **1135780.183**
Easting/Longitude: **1025299.257**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

TEST PIT LOG

ID NO.: **LNAPL-27**

Groundwater & Environmental Services, Inc.

PROJECT: **Brightfields Tract II**
ADDRESS: **3001 Highland Ave, Niagara Falls, NY 14305**
JOB NO.: **0901616**

SURFACE ELEV.: **580.230'**
WATER DEPTH: **9.5'**
BOREHOLE DIAM.: **NA**

TOTAL DEPTH: **10'**
CASING ELEV.: **NA**
WELL DIAM.: **NA**

Logged By: **Eric Popken**
Dates Drilled: **5/19/2015**
Excavating Company: **OSC**
Rig Type: **Excavator**

Drilling Method: **Test Pit**
Sampling Method: **Test Pit**
Soil Class. System: **Modified Burmister**
Field Screening: **MiniRae 2000 w/ 10.6 eV Lamp**

Depth (feet)	Sample Time	Field Screen (ppmv)	Sample Interval (feet)	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	10:10	0.0	0-2'	Fill, clay and silt, brown, brick, gravel, organics, no odors		NA
2	10:15	0.0	2-4'	Fill, clay and silt, brown, brick, gravel, organics, no odors		
4	10:20	0.1	4-6'	Silty clay, brown, dry to moist, trace fine to medium sand, no odors		
6	10:25	0.0	6-8'	Silty clay, brown, dry to moist, trace fine to medium sand, no odors		
8	10:30	0.1	8-9.5'	Silty clay, brown, dry to moist, trace fine to medium sand, no odors		
10	10:35	0.2	9.5-10'	Fine to coarse sand and gravel, little silt, gray, wet, no sheen or odors	Rock encountered at 10'. No sign of impacts,	

Location:
Northing/Latitude: **1135736.980**
Easting/Longitude: **1025277.490**
Horizontal Datum:
Vertical Datum:

General Comments:

Symbol Key:
Apparent Water Level
Soil Sample Location

APPENDIX D

Soil Disposal Records

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434542
Date: 3/13/2015
Time: 08:22:05 - 08:22:57
Scale

Gross: 62960 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 36060 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001105684
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.03	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434549
Date: 3/13/2015
Time: 08:29:00 - 08:29:31
Scale

Gross: 60080 POU In Scale INBOUN
Tare: 25900 POU P.T.
Net: 34180 POU

Truck: PARISO-102
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001105685

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	17.09	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434575
Date: 3/13/2015
Time: 09:26:32 - 09:27:00
Scale

Gross: 61840 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 34940 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001105686
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	17.47	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434580
Date: 3/13/2015
Time: 09:32:57 - 09:33:30
Scale

Gross: 58480 POU In Scale INBOUI
Tare: 25920 POU Out Manual Wt M
Net: 32560 POU

Truck: PARISO-102
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001105687

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	16.28	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434628
Date: 3/13/2015
Time: 10:28:44 - 10:29:06
Scale

Gross: 62400 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 35500 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001105688
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	17.75	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434631
Date: 3/13/2015
Time: 10:32:29 - 10:32:46
Scale

Gross: 57820 POU In Scale INBOUN
Tare: 25900 POU P.T.
Net: 31920 POU

Truck: PARISO-102
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BR(
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001105689

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	15.96	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434672
Date: 3/13/2015
Time: 11:33:26 - 11:34:22
Scale

Gross: 70220 POUIn Scale INBOUI
Tare: 26900 POU P.T.
Net: 43320 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001105690
Profile: M15-2798/BRIGHTFIELDS - ADDI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.66	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002434677
Date: 3/13/2015
Time: 11:41:59 - 11:42:50
Scale

Gross: 70820 POUIn Scale INBOUN
Tare: 25900 POU P.T.
Net: 44920 POU

Truck: PARISO-102
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDI

WO: 0001105691

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.46	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436298
Date: 3/20/2015
Time: 08:01:42 - 08:02:33
Scale

Gross: 69080 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 38480 POU

Truck: 2080-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI
PO: .

WO: 0001109474

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.24	TON

Driver: M. Johannes 2080

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436301
Date: 3/20/2015
Time: 08:05:05 - 08:05:43
Scale
Gross: 65040 POUIn Scale INBOUN
Tare: 27080 POU P.T.
Net: 37960 POU

Truck: PARISO-229
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109479
Profile: M15-2798/BRIGHTFIELDS - ADDI
Generator: 0250310002/Modern Disposal Roll Off -
PO: .
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.98	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436305
Date: 3/20/2015
Time: 08:11:22 - 08:12:19
Scale
Gross: 63980 POUIn Scale INBOUN
Tare: 26900 POU P.T.
Net: 37080 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109480
Profile: M15-2798/BRIGHTFIELDS - ADDT.

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.54	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436308
Date: 3/20/2015
Time: 08:22:08 - 08:22:34
Scale

Gross: 62880 POUIn Scale INBOUN
Tare: 25500 POU P.T.
Net: 37380 POU

Truck: PARISO-217
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109481
Profile: M15-2798/BRIGHTFIELDS - ADDI
Generator: 0250310002/Modern Disposal Roll Off -
PO: .
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.69	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436331
Date: 3/20/2015
Time: 09:04:39 - 09:05:13
Scale

Gross: 68260 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 37660 POU

Truck: 2080-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001109476

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.83	TON

Driver: Mal Johnson 2080

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436333
Date: 3/20/2015
Time: 09:09:04 - 09:09:24
Scale

Gross: 64660 POU In Scale INBOUN
Tare: 27080 POU P.T.
Net: 37580 POU

Truck: PARISO-229
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109483
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.79	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436344
Date: 3/20/2015
Time: 09:15:59 - 09:16:28
Scale

Gross: 63300 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 36400 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109484
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.20	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436357
Date: 3/20/2015
Time: 09:30:35 - 09:30:52
Scale

Gross: 61500 POU In Scale INBOUN
Tare: 25500 POU P.T.
Net: 36000 POU

Truck: PARISO-217
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001109485

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.00	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436389
Date: 3/20/2015
Time: 10:06:43 - 10:07:11
Scale

Gross: 72340 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 41740 POU

Truck: 2080-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001109478

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.87	TON

Driver: Mal Johannes 2080

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436394
Date: 3/20/2015
Time: 10:08:51 - 10:09:29
Scale
Gross: 68120 POU In Scale INBOUN
Tare: 27080 POU P.T.
Net: 41040 POU

Truck: PARISO-229
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109486
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.52	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436410
Date: 3/20/2015
Time: 10:28:08 - 10:28:25
Scale

Gross: 66800 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 39900 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109487
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.95	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436415
Date: 3/20/2015
Time: 10:32:14 - 10:32:41
Scale

Gross: 66400 POU In Scale INBOUN
Tare: 25500 POU P.T.
Net: 40900 POU

Truck: PARISO-217
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109490
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.45	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436452
Date: 3/20/2015
Time: 11:11:39 - 11:12:06
Scale

Gross: 67280 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 36680 POU

Truck: 2080-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001109475

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.34	TON

Driver: Mal Johannes 2080

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436463
Date: 3/20/2015
Time: 11:30:57 - 11:31:35
Scale
Gross: 68880 POU In Scale INBOUN
Tare: 26900 POU P.T.
Net: 41980 POU

Truck: PARISO-246
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109489
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.99	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436470
Date: 3/20/2015
Time: 11:40:13 - 11:40:30
Scale

Gross: 68540 POU In Scale INBOUN
Tare: 25500 POU P.T.
Net: 43040 POU

Truck: PARISO-217
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BR(
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001109482

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.52	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436477
Date: 3/20/2015
Time: 11:50:01 - 11:50:24
Scale

Gross: 66820 POU In Scale INBOUN
Tare: 27080 POU P.T.
Net: 39740 POU

Truck: PARISO-229
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-001/PARISO INC, CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001109491
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.87	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002436510
Date: 3/20/2015
Time: 12:48:31 - 12:48:57
Scale

Gross: 68280 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 37680 POU

Truck: 2080-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001109477

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.84	TON

Driver: MJ Johannes 2080

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437370
Date: 3/25/2015
Time: 08:11:39 - 08:12:15
Scale

Gross: 74120 POUIn Scale INBOUN
Tare: 27280 POU P.T.
Net: 46840 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: PARISO/PARISO
Profile: M15-2798/BRIGHTFIELDS - ADDT.
WO: 0001112597
Generator: 0250310002/Modern Disposal Roll Off -
PO: .
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	23.42	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437374
Date: 3/25/2015
Time: 08:19:44 - 08:21:14
Scale
Gross: 69500 POUIn Scale INBOUN
Tare: 25180 POU P.T.
Net: 44320 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112598
Profile: M15-2798/BRIGHTFIELDS - ADDI
Generator: 0250310002/Modern Disposal Roll Off -
PO: .
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.16	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437379
Date: 3/25/2015
Time: 08:25:45 - 08:26:11
Scale

Gross: 70560 POUIn Scale INBOUN
Tare: 25960 POU P.T.
Net: 44600 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDI
PO: .

WO: 0001112599

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.30	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437424
Date: 3/25/2015
Time: 09:25:31 - 09:26:07
Scale

Gross: 79120 POU In Scale INBOUN
Tare: 27280 POU P.T.
Net: 51840 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: PARISO/PARISO
WO: 0001112601
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	25.92	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437427
Date: 3/25/2015
Time: 09:32:01 - 09:32:30
Scale

Gross: 70680 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 45500 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112603
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.75	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437431
Date: 3/25/2015
Time: 09:35:48 - 09:36:19
Scale

Gross: 69860 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 43900 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112600
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.95	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437473
Date: 3/25/2015
Time: 10:41:45 - 10:42:24
Scale

Gross: 69520 POU In Scale INBOUN
Tare: 27280 POU P.T.
Net: 42240 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: PARISO/PARISO
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112605

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.12	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437478
Date: 3/25/2015
Time: 10:46:06 - 10:46:27
Scale

Gross: 63420 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 38240 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112602

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.12	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437480
Date: 3/25/2015
Time: 10:48:47 - 10:49:17
Scale

Gross: 65300 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 39340 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112604
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.67	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437516
Date: 3/25/2015
Time: 11:45:08 - 11:45:27
Scale

Gross: 66300 POU In Scale INBOUN
Tare: 27280 POU P.T.
Net: 39020 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: PARISO/PARISO
WO: 0001112608
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	19.51	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437517
Date: 3/25/2015
Time: 11:49:24 - 11:49:41
Scale

Gross: 61100 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 35920 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112607

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	17.96	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437521
Date: 3/25/2015
Time: 11:57:14 - 11:57:39
Scale

Gross: 66080 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 40120 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112606

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.06	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437551
Date: 3/25/2015
Time: 12:49:36 - 12:50:10
Scale

Gross: 69540 POU In Scale INBOUN
Tare: 27280 POU P.T.
Net: 42260 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: PARISO/PARISO
Profile: M15-2798/BRIGHTFIELDS - ADDITI
WO: 0001112611

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.13	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437557
Date: 3/25/2015
Time: 12:57:21 - 12:57:47
Scale

Gross: 69400 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 44220 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112610

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.11	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437563
Date: 3/25/2015
Time: 13:02:29 - 13:02:52
Scale

Gross: 67900 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 41940 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112609

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.97	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437613
Date: 3/25/2015
Time: 13:54:28 - 13:54:53
Scale

Gross: 73160 POUIn Scale INBOUN
Tare: 27280 POU P.T.
Net: 45880 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: PARISO/PARISO
Profile: M15-2798/BRIGHTFIELDS - ADDT

WO: 0001112858

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.94	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437616
Date: 3/25/2015
Time: 14:03:47 - 14:04:15
Scale

Gross: 69560 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 44380 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112860
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.19	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437619
Date: 3/25/2015
Time: 14:08:56 - 14:09:17
Scale

Gross: 70960 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 45000 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112859
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.50	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437651
Date: 3/25/2015
Time: 14:56:48 - 14:57:06
Scale

Gross: 70520 POU In Scale INBOUN
Tare: 27280 POU P.T.
Net: 43240 POU

Truck: PARISO-238
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: PARISO/PARISO
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112862

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.62	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437653
Date: 3/25/2015
Time: 15:03:12 - 15:03:54
Scale

Gross: 61320 POU In Scale INBOUN
Tare: 25180 POU P.T.
Net: 36140 POU

Truck: PARISO-26
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-002/Pariso Hauling

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001112864

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	18.07	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002437661
Date: 3/25/2015
Time: 15:15:40 - 15:15:56
Scale

Gross: 45900 POU In Scale INBOUN
Tare: 25960 POU P.T.
Net: 19940 POU

Truck: PARISO-101
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-004/PARISO, B TRANSPORT

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001112863
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	9.97	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438005
Date: 3/27/2015
Time: 08:03:26 - 08:04:03
Scale

Gross: 75560 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 44960 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(Truck Type: TA
Driver: MALJOH/Malcome Johannes

WO: 0001113410

Profile: M15-2798/BRIGHTFIELDS - ADDITI(
PO: .

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.48	TON

Driver: Mal Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438006
Date: 3/27/2015
Time: 08:05:39 - 08:06:11
Scale

Gross: 71800 POUIn Scale INBOUN
Tare: 26840 POU P.T.
Net: 44960 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDI
PO: .

WO: 0001113411

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.48	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438033
Date: 3/27/2015
Time: 09:02:35 - 09:03:04
Scale

Gross: 71840 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 41240 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001113405

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.62	TON

Driver: Mal Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438046
Date: 3/27/2015
Time: 09:11:03 - 09:11:25
Scale

Gross: 67220 POU In Scale INBOUN
Tare: 26840 POU P.T.
Net: 40380 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001113412
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.19	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438092
Date: 3/27/2015
Time: 10:15:35 - 10:16:02
Scale

Gross: 70100 POU In Scale INBOUN
Tare: 26840 POU P.T.
Net: 43260 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001113413
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.63	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438106
Date: 3/27/2015
Time: 10:49:43 - 10:50:11
Scale

Gross: 72920 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 42320 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001113408

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.16	TON

Driver: Mal Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438124
Date: 3/27/2015
Time: 11:19:33 - 11:19:53

	Scale	
Gross:	72680 POUIn	Scale INBOUN
Tare:	26840 POU	P.T.
Net:	45840 POU	

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: MDS-001/MODERN DISPOSAL
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001113414
Profile: M15-2798/BRIGHTFIELDS - ADDT

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	22.92	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438138
Date: 3/27/2015
Time: 11:45:53 - 11:46:19
Scale

Gross: 76840 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 46240 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001113406

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	23.12	TON

Driver: MAL Johnnes 2nd

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438169
Date: 3/27/2015
Time: 12:25:45 - 12:26:11
Scale

Gross: 75060 POU In Scale INBOUN
Tare: 26840 POU P.T.
Net: 48220 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001113415
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	24.11	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438185
Date: 3/27/2015
Time: 12:44:16 - 12:44:39
Scale

Gross: 71060 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 40460 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001113409

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.23	TON

Driver: Mal Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438219
Date: 3/27/2015
Time: 13:30:45 - 13:31:14
Scale

Gross: 67900 POU In Scale INBOUN
Tare: 26840 POU P.T.
Net: 41060 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001113416

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	20.53	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438229
Date: 3/27/2015
Time: 13:44:05 - 13:44:19
Scale

Gross: 63940 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 33340 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI

WO: 0001113407

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	16.67	TON

Driver: Mal Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438273
Date: 3/27/2015
Time: 14:47:22 - 14:47:47
Scale

Gross: 74580 POU In Scale INBOUI
Tare: 26840 POU P.T.
Net: 47740 POU

Truck: PARISO-243
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: PARI-003/PARISO INC. CARMEN
Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
WO: 0001114128
Profile: M15-2798/BRIGHTFIELDS - ADDITI

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	23.87	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002438277
Date: 3/27/2015
Time: 14:50:07 - 14:50:25
Scale

Gross: 73840 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 43240 POU

Truck: 2081-TA
Customer: 0250310002/Modern Disposal Roll Off -
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2798/BRIGHTFIELDS - ADDITI(

WO: 0001114121

Generator: 0250310002/Modern Disposal Roll Off -
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC DEC Approved Waste	21.62	TON

Driver: Mal Johannes 2057

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106813

Ticket: 1002458363
Date: 6/9/2015
Time: 08:07:20 - 08:08:00
Scale

Gross: 67200 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 36600 POU

Truck: 2080-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: DAVEKRUK/Grapple Dave

Truck Type: TA
Route: MKRUKOW/DAVE KRUKOWSKI
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001158144

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	18.30	TON

Driver: DAVID KRUKOWSKI 1882

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G1068114

Ticket: 1002458374
Date: 6/9/2015
Time: 08:14:51 - 08:15:28
Scale

Gross: 75760 POU In Scale INBOUN
Tare: 27580 POU P.T.
Net: 48180 POU

Truck: PF30-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001158048

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	24.09	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106815

Ticket: 1002458383
Date: 6/9/2015
Time: 08:23:49 - 08:24:09
Scale

Gross: 71660 POU In Scale INBOUN
Tare: 28220 POU P.T.
Net: 43440 POU

Truck: PF29-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001158067

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	21.72	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106816

Ticket: 1002458389
Date: 6/9/2015
Time: 08:30:12 - 08:30:38
Scale

Gross: 68220 POU In Scale INBOUN
Tare: 27620 POU P.T.
Net: 40600 POU

Truck: PF33-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001158062

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	20.30	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106817

Ticket: 1002458392
Date: 6/9/2015
Time: 08:34:06 - 08:34:33
Scale

Gross: 69660 POU In Scale INBOUN
Tare: 28760 POU P.T.
Net: 40900 POU

Truck: PF32-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001158056

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	20.45	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106818

Ticket: 1002458785
Date: 6/10/2015
Time: 07:37:20 - 07:38:02

Scale

Gross: 70520 POU In Scale INBOUN
Tare: 30600 POU P.T.
Net: 39920 POU

Truck: 2081-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: LEWI-003/LEWISTON TRUCKIN(
Driver: MALJOH/Malcome Johannes

Truck Type: TA
Route: MJOHANNES/MALCOM JOHANN
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001159030

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	19.96	TON

Driver: MAL Johannes 2081

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106819

Ticket: 1002458799
Date: 6/10/2015
Time: 07:51:36 - 07:52:02
Scale

Gross: 68680 POU In Scale INBOUN
Tare: 27580 POU P.T.
Net: 41100 POU

Truck: PF30-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001159035

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	20.55	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106820

Ticket: 1002458802
Date: 6/10/2015
Time: 07:52:59 - 07:53:20

Truck: PF33-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: FOUR-003/FOURNIER, PAUL

Scale
Gross: 65660 POU In Scale INBOUN
Tare: 27620 POU P.T.
Net: 38040 POU

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001159036

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	19.02	TON

Driver: _____

Weighmaster: Deb Lehman

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

G106821

Ticket: 1002458807
Date: 6/10/2015
Time: 07:57:45 - 07:58:09
Scale

Gross: 76200 POU In Scale INBOUN
Tare: 29220 POU P.T.
Net: 46980 POU

Truck: M16-TA
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: MAWH-003/MAWHINEY TRUCKI

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M15-2823/BRIGHTFIELDS - ADDITC

WO: 0001159037

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730094 BRIGHTFIELDS- TRACT II
Comment:

Origin	Materials & Services	Quantity	Unit
291100/Niagara Falls	DC Industrial Waste - General	23.49	TON

Driver: _____

Weighmaster: Deb Lehman