April 14, 2015

PIPING INVESTIGATION SUMMARY REPORT

NYSDEC Spill Number 1300859
301/351 Franklin Street
Olean, New York

Prepared for

MR. DAN GRAPSKI
ExxonMobil Environmental Services Company
38 Varick Street
Brooklyn, New York 11222

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

ROUX *12 Gill Street, Suite 4700,Woburn, MA 01801 ♦ 781-569-4000*

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 INTRODUCTION

Roux Associates, Inc. (Roux Associates), on behalf of ExxonMobil, Environmental Services (ExxonMobil), has prepared the following Piping Investigation Summary Report (Summary Report) which provides data and information collected during the piping investigation (the Investigation) associated with Spill Number 1300859. Specifically, the Investigation pertained to *"…petroleum contained in, and potentially spilled from, abandoned dilapidated piping"*, potentially, *"…associated with the Historic SOCONY Vacuum Refinery…"* located at 351 Franklin Street, Olean, New York. According to the City of Olean Assessor's Office on-line property information database this property is also identified as parcel number 94.040-1-29.1 (hereafter referred to as the Site or Property).

Pursuant to an April 26, 2013 letter from the New York State Department of Environmental Conservation (NYSDEC) to ExxonMobil, NYSDEC required that the piping identified to extend onto the Property, during remedial activities on an adjacent property (301 Franklin Street – Site No. C905036), be evaluated for evidence of petroleum impacts contained in, or spilled from subsurface piping. In addition to the piping described to extend onto 351 Franklin Street (southwest of 301 Franklin Street) NYSDEC is also requiring ExxonMobil to investigate piping identified to extend to the east and southeast of 301 Franklin Street onto property owned by the Southern Tier Rail Authority (STRA) (Parcels 94.048-1-3 and 94.040-1-26). Following the receipt of the April 26, 2013 letter, Roux Associates prepared a Work Plan to investigate and address the identified piping. The Work Plan was submitted to NYSDEC on July 31, 2013 and subsequently approved by NYSDEC in an August 7, 2013 letter.

A Site Location Map and Site Plan (showing the Site/Property) are provided as Figure 1 and Figure 2, respectively.

This Summary Report has been prepared in general accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 3, 2010 (NYSDEC DER-10).

The remainder of this Piping Investigation Summary Report is divided into the following sections:

- Section 2.0 provides a description of the Site its historical uses and regulatory history;
- Section 3.0 provides details of the investigation including excavation, pipe cleaning/removal, pipe abandoning, waste disposal and geophysical survey; and
- Section 4.0 provides a summary of proposed future activities.

2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

The Site is located in the City of Olean, Cattaraugus County, New York, at 351 Franklin Street (Figure 1). According to the City of Olean Assessor's Office on-line property information database, the entire Property is currently owned by Blue Bird Industrial Park and is a 6.26-acre parcel identified as parcel number 94.040-1-29. The Site contains three businesses, operating within two buildings. "Valley Tire Co." and "First Transit Inc." share the southernmost building on the parcel and warehouses associated with "Southern Tier Moving and Storage", occupy the northernmost building. Both buildings are slab-on-grade construction warehouse/garage buildings, containing one or more office areas, landscaped areas and a large parking area surround and separate the two buildings.

The Site and surrounding areas are located within the Allegheny-Ohio-Mississippi River drainage basin and according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Olean, New York, the Site straddles Zone B and Zone C floodplain areas. Zone B areas are located between the limits of the 100-year floodplain and the 500-year floodplain, which indicate potential for significant flooding every 100 to 500 years. Zone C areas are considered areas of minimal flooding.

2.2 Historical Site Use

According to the April 2006 Historic and Current Site Conditions Report prepared by AMEC Earth & Environmental (AMEC) on behalf of ExxonMobil, the section of Olean, New York, which surrounds the area of the Site, has historically been occupied with industrial operations including, but not limited to, petroleum storage and refining, leather tanneries, heavy and light manufacturing, chrome plating, fertilizer manufacturing, and railroad facilities. This property and properties immediately surrounding the area of the Site were primarily used as a petroleum refining facility between 1876 and approximately 1954, with portions of the surrounding area used as an Agway-Felmont fertilizer facility between 1965 and 1984. According to the AMEC report, the Site area was formerly part of the SOCONY-Vacuum Oil Company, Inc. refinery (SOCONY) until it was sold to Agway-Felmont in 1954. Through acquisitions and mergers, SOCONY became Exxon Mobil Corporation.

2.3 Site Regulatory History

According to the April 26, 2013 NYSDEC letter, the spill number associated with this Property was opened based on information, "…identified during remedial activities on an adjacent property, located at 301 Franklin Street, under the NYS Brownfield Cleanup Program (Scott Rotary Seals Site No. C905036). Remedial activities on the Brownfield Cleanup Program site included the removal of abandoned refinery piping. Pipes extending off site were cut and capped at the property boundary. Several of these pipes contained petroleum. Documentation of these pipes is included in the Final Engineering Report for the "Scott Rotary Seals Site". Figures contained in the August 2012, Final Engineering Report, prepared by Turnkey Environmental Restoration, LLC (Turnkey), were used to guide this Investigation.

3.0 PIPING INVESTIGATION

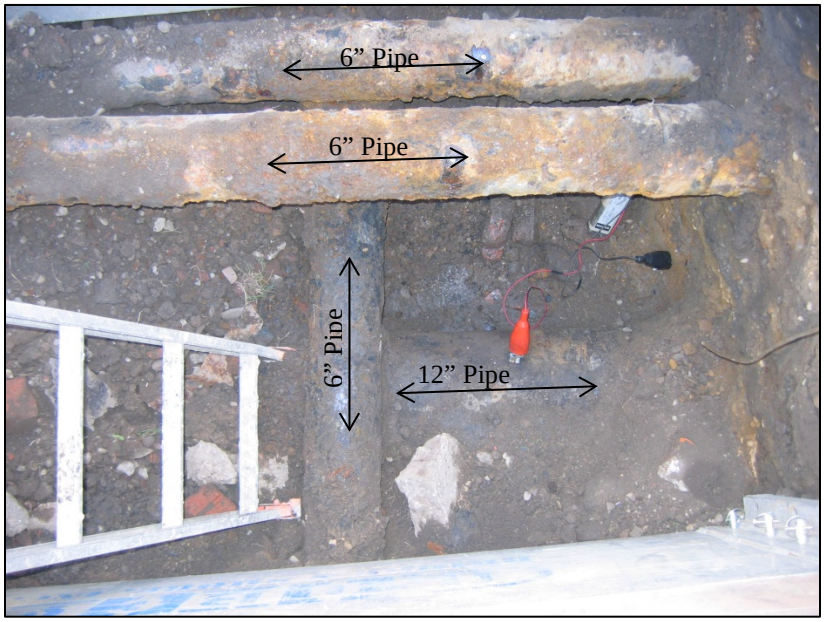
Roux Associates on behalf of ExxonMobil, conducted piping investigation activities at the Site in order to investigate abandoned piping in areas identified by Turnkey and as directed by NYSDEC. Prior to performing any subsurface investigation activities, DigSafely NewYork, Inc. and the City of Olean, New York water and sewer departments were contacted by Roux Associates to identify and mark, if applicable, known utilities and/or pipelines in the vicinity of the proposed excavation locations.

The Investigation activities included targeted excavation activities to facilitate the location of subsurface piping. Once located, the piping was inspected, its extent investigated and it was designated to either be removed and cleaned or abandoned in place where removal was not feasible. All known piping extending off of 301 Franklin Street, and crossing the parcel boundaries with the STRA and 351 Franklin Street has been removed. During the course of investigating the known piping on 351 Franklin Street, additional piping was identified and successive attempts were made to remove the additional piping, however, at the time of this report, additional piping remains on 351 Franklin Street and will be further pursued during 2015.

3.1 Preliminary Excavation Activities

Between September 27, 2013 and October 4, 2013, Construction Solutions Inc. (CSI) of Amesbury Massachusetts, as directed by Roux Associates, performed several preliminary/exploratory excavations in four select locations where subsurface piping was previously identified by Turnkey on the 301 Franklin Street property. The locations were identified as SRS-Area-1, SRS-Area-2, SRS-Area-3 and SRS-Area-4 (shown on Figure 2). Turnkey had previously identified three pipes in SRS-Area-1, one pipe in SRS-Area-2, two pipes in SRS-Area-3 and six pipes in SRS-Area-4. Once in the field, Roux Associates coordinated directly with Turnkey personnel to mark-out where the piping had been terminated. At this time Turnkey indicated that the piping in SRS-Area-3 extended to the property boundary, which was previously removed, and did not extent past the 301 Franklin Street site boundary. Based on this statement, no further attempts were made to locate piping extending from SRS-Area-3. Across each of these preliminary excavations, Roux Associates was able to locate all known piping reported by Turnkey to extend from the 301 Franklin Street property to either the STRA or 351 Franklin Street property.

In the locations where piping was located, efforts were made to determine the contents of the piping by either sampling the contents from the open end of the pipe, or drilling a hole into the pipe and sampling the material within it. The extent of the piping was then explored by advancing a semi-rigid electricians snake into a drilled/tapped hole in the piping (if an open end was not initially located) and/or inducing a signal into the pipe or electricians snake within the pipe, using a utility locator[1] and locating it along the axis of the pipe with an associated receiver. Once the extent of the piping was identified, the location (latitude and longitudinal coordinates) for each abandoned pipe was logged electronically into a field Global Positioning System (GPS) device. All piping identified during the course of this work is shown on Figure 3.



Photograph 1: Example of Pipes Identified (SRS-Area-1)

3.1.1 Soil Sampling Activities

During the preliminary excavation activities, three soil samples (SRS-Area 1 / 6-7, SRS-Area 1A / 7-8 and SRS-Area 2 / 4) were collected between September 27, 2013 and October 1, 2013. The sample locations are shown on Figure 3.

Sample SRS-Area 1 / 6-7 was collected from below the eastern end of the pipes in the SRS-Area-1 excavation. Sample SRS-Area 1A / 7-8 was collected from a secondary excavation, southwest along the line created by the piping within SRS-Area-1, adjacent to the east side of the Site road. Sample SRS-Area 2 / 4 was collected from below the eastern end of the pipes in SRS-Area-2 excavation.

[1] Ditch Which RD4000 and/or Dynatel 2272 and/or similar was used.

In accordance with the work plan, all three soil samples were submitted for laboratory analysis including:

- Volatile Organic Compounds (VOCs) [Full List] and Semi-Volatile Organic Compounds (SVOCs) by EPA Methods 8260C and 8270D, respectively;
- Total Resource Conservation and Recovery Act Metals (RCRA-8) by EPA Methods 6010C/7470B; and
- Total Petroleum Hydrocarbon (TPH) Fingerprinting, Gasoline Range Organic (GRO) and Diesel Range Organic (GRO) by EPA Method 8015D.

In addition, on July 29, 2014 and July 30, 2014 two additional soil samples (SRS_END-1 / 11 and SRS_END-2 / 15) were collected during subsequent Grossly Contaminated Material (GCM) excavation activities (discussed in Section 3.4). These two samples represented confirmatory endpoint samples from the GCM excavation (see Section 3.4) and were submitted for laboratory analysis including:

- VOCs [TCL + TICs] and SVOCs [TCL + TICs] by EPA Methods 8260C and 8270D, respectively; and
- Metals (TAL + Mercury) by EPA Methods 6010C/7471B.

All sample results were compared to the Restricted Use Soil Cleanup Objectives - Commercial Values (Commercial SCO) presented in 6 NYCRR Part 375-6.8(b) (Table 375-6.8(b)). Only Arsenic was detected at a concentration exceeding the applicable Commercial SCOs. Note that arsenic is frequently present within urban background soils in New York State at concentrations in excess of the Commercial Use SCO (16 mg/kg), particularly at former industrial properties with a history of fossil fuel burning, oil refining, and fertilizer production such as that which occurred in the vicinity of the Site. Accordingly, comparison of arsenic concentrations to region-specific background conditions may be considered appropriate. Specifically, Vosnakis and Perry (2009)[2] recommend a BTV of 24.2 mg/kg based on the 95th percentile concentration of arsenic present in 101 background soil samples collected in the state of New York.[3]

---

[2] Vosnakis, Kelly A.S. and Elizabeth Perry. 2009. "Background Versus Risk-Based Screening Levels – An Examination of Arsenic Background Soil Concentrations in Seven States." *International Journal of Soil, Sediment and Water*. Volume 2, Issue 2, Article 2.

[3] Vosnakis and Perry (2009) examined background arsenic from over 1,600 background soil samples collected from 189 sites in Kentucky, Maryland, New York, Ohio, Pennsylvania, Virginia, and West Virginia from 1995 through 2001. They reported that arsenic was detected in 80 of 101 background soil samples collected in the state of New York. The maximum detected background arsenic concentration was 40.3 mg/kg, while the 95th percentile concentration was 24.2 mg/kg. They recommended using the 95th percentile concentration as a Background Threshold Value (BTV). Concentrations "below the BTV would be considered representative of background."

The results of the sample analysis are also provided in the table below.

				VOC													Metals									TPH	
Designation	Top	Bottom	DateSampled	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Benzene	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Toluene	Xylenes (total)	Chrysene	Fluorene	Phenanthrene	Pyrene	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TPH FINGERPRINT - GRO - C6-C10	TPH FINGERPRINT - DRO - C10-C28
Table 375-6.8(b): Restricted Use Soil Cleanup Objectives (Commercial)				190	190	500	44	500	500	500	500	500	56	500	500	500	16	400	9.3	400	270	1000	2.8	310	10000	--	--
SRS-Area 1 / 6-7	6	7	09/30/13	0.113U	0.113U	0.184	0.00222U	0.113U	0.113U	0.244	0.00222U	0.00556U	0.0729	0.0665U	0.332U	0.0665U	25.7	34.6	2.94	6.9	--	51.4	0.117U	--	--	136	11500
SRS-Area 1A / 7-8	7	8	10/01/13	0.18	0.124U	0.165	0.0288	0.124U	0.492	0.415	0.00626	0.00604U	0.103	0.166	0.411	0.0899	36	57.6	3.26	10.7	--	67.3	0.646	--	--	1040	3810
SRS-Area 2 / 4	2	4	09/27/13	0.865	0.643	0.195	0.0155	0.298	0.179U	0.179U	0.00708	0.0119	0.0659U	0.0659U	0.069	0.0659U	18.1	86.7	2.93	18.9	--	195	0.721	--	--	43	158
SRS_END-1/11	11	11	07/29/14	--	--	0.131	0.000515U	--	--	--	0.00215	--	0.0432J	0.0115U	0.00862U	0.0115U	4.76	22.5	0.104U	6.46	17.5	10.7	0.0308U	10.3	44.6	--	--
SRS_END-2/15	15	15	07/30/14	--	--	0.0708	0.000438U	--	--	--	0.000484U	--	0.00882U	0.0118U	0.176	0.0118U	4.98	12.3	0.104U	4.88	17.1	7.78	0.031U	8.78	53.5	--	--

All Concentration are in Milligrams per Kilogram (mg/kg)
VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics

Additionally, the chromatographs associated with the TPH Fingerprinting GRO and DRO analysis indicated that the soil samples from SRS-Area-1 and SRS-Area-1A (SRS-Area 1 / 6-7 and SRS-Area 1A / 7-8) were consistent with Diesel and "Aged Diesel". The soil sample from SRS-Area-2 (SRS-Area 2 / 4) was consistent with Motor Oil. Copies of the analytical reports are provided in Appendix A.

3.2 Pipe Excavation, Cleaning and Removal

Between December 7, 2013 and December 14, 2013 and between July 17, 2014 and July 19, 2014, CSI and Roux Associates, returned to the previously located pipe sections to excavate, clean and dispose/recycle the abandoned piping. Over these two periods, approximately 1,993 feet of abandoned refinery piping ranging in diameter from 4 inches to 12 inches, was excavated, cleaned and removed from 301 and 351 Franklin Street.

Much of the piping encountered was empty (dry). However, when piping containing liquid was encountered, the piping was excavated such that the top of each pipe was exposed, the pipes were pitched using the excavator to allow the liquid within to drain into a collection pan. The liquid was then recovered with a vac-truck. Following this, the ends of the pipe were temporarily plugged (to contain any residual liquid) and then the pipes were removed from the excavations and staged for cleaning, prior to being placed in roll-off containers for disposal or recycling. Cleaning of the piping consisted of scraping each pipe with a semi-circular garden hoe to ensure that each pipe was free of "free-liquid"[4] and contained minimal-to-no petroleum residue. Of the approximately 1,993 feet of piping removed, approximately 1,309 feet of piping was removed in December of 2013 and

[4] In order to the material to be acceptable to the receiving facility, it had to be free from material that would fail the EPA Method 9095B paint filter liquids test, i.e., "Free Liquid". Although this test was not performed in the field, efforts were made to remove any material that had the potential to fail this test from the piping prior to disposal.

approximately 684 feet of piping was removed in July of 2014. The piping sludge cleaned from the piping was contained in nineteen 55-gallon drums in total. All drums were temporarily stored on-site pending disposal (see Section 3.5). Select photographs taken during the pipe excavation, cleaning and removal are provided below.

Photograph 2: SRS-Area-1 (deepest pipe – 12" pipe)

Photograph 3: SRS-Area-2 Pipe (looking east)

Photograph 4: SRS-Area-4 Pipe

Additional information regarding the management of wastes generated during the Investigation is included in Section 3.5 below.

3.3 Pipe Abandoning Activities

On July 9, 2014, CSI and Roux Associates, returned to 351 Franklin Street to abandon piping that was found to extend under the northernmost building on the Property. This eight inch pipe was found to be dry and could not be further removed without impacting the existing building. After advancing the electricians snake 42 feet into the pipe and attempting to locate the pipe terminus by inducing a signal onto both the pipe and the electrician snake were ultimately unsuccessful. The signal receiver was unable to detect the signal beyond what could be confirmed with the electricians snake. Because the pipe could not be further assessed, as it extended beneath the concrete slab of the existing building, it was abandoned. The pipe was cut, approximately 10 feet from the northwest side of the building, and concrete was tremie-pumped into the pipe extending under the northernmost building to fill and seal it.

3.4 GCM Excavation Activities

Between July 29, 2014 and July 31, 2014, CSI and Roux Associates, returned to 351 Franklin Street to excavate and dispose of the GCM that was encountered during the previous piping investigation and removal activities. GCM was excavated from approximately the northeastern boundary of 301/351 Franklin Street towards the southeast, south and south west. A "clean edge" was reached on the northeast and southeast edges, with no visible GCM remaining. The entire bottom of the excavation was left free of GCM; however, GCM still was present along the south/southwestern edge and the northern edge of the excavation. Based on the additional GCM encountered and suspected piping still present, the work was postponed to perform a geophysical survey to assist developing a more comprehensive work plan to locate and address remaining abandoned piping and GCM. Details regarding the geophysical survey performed are provided in Section 3.6, and additional details regarding the proposed continuation of this work are provided in Section 4.0. The extent of GCM excavation, as of July 31, 2014, is shown on Figure 3. A total of 358.98 tons of non-hazardous GCM were excavated and disposed of at the Waste Management of New York Chaffee Landfill in Chaffee New York. Additional waste disposal information is provided below in Section 3.5.

3.5 Waste Management and Disposal

Waste generated during this investigation included pipe cleaning sludge, Oily/Water, scrap metal and GCM. Additional information about the waste is provided below:

Pipe cleaning sludge: 14 drums, approximately 770 gallons (4,200 pounds) of pipe cleaning sludge were removed in January of 2014 and 5 drums, approximately 275 gallons (1,600 pounds) of pipe cleaning sludge were removed in July of 2014. Both shipments of pipe cleaning sludge were disposed of, using Uniform Hazardous Waste Manifests, at Waste Management of New York's Model City Facility.

Oily/Water: Approximately 250 gallons of Oily/Water were removed in December of 2013 and approximately 150 gallons of Oily/Water removed in July of 2014. Both shipments of oily/water were disposed of, using Non-Hazardous Waste Manifests, at Tradebe Treatment and Recycling Northeast, LLC., located in Meriden Connecticut.

Scrap Metal: In December of 2013 approximately 21.27 tons (1,309 feet) of metal pipe were disposed of, using Non-Hazardous Waste Manifests, at Waste Management of New York's

Chaffee Landfill. In July of 2014 approximately 12.37 tons (684 feet) of metal pipe was recycled at Goodman Services, Inc.–A division of Metalico located in Bradford Pennsylvania.

GCM: In July of 2014 a total of 358.98 tons of GCM were excavated and disposed of, using Non-Hazardous Waste Manifests, at Waste management of New York's Chaffee Landfill.

Actual manifested/documented volumes and amounts of pipe cleaning sludge, oily/water and scrap metal also include waste removed from NYSDEC Spill Number 1300860 (229/251 Homer Street - OFFSITE HOMER STREET BCP SITE). The wastes from these Spill Numbers 1300859 and 1300860 were profiled for disposal together and disposed of under the same shipping documents. Manifested/documented tonnages of GCM are solely from NYSDEC Spill Number 1300859. Copies of the applicable shipping documents are provided in Appendix B.

3.6 Geophysical Survey

Between October 13, 2014 and October 17, 2014, Naeva Geophysics Inc. (NAEVA) of Congers New York and Roux Associates, returned to 351 Franklin Street to perform a geophysical investigation to assist in further identifying abandoned piping and to better understand subsurface conditions at the site.

Specifically, the Property was surveyed using an EM31 terrain conductivity meter in order to produce a terrain conductivity contour map and a metal detection contour map. Additionally, anomalies detected during the EM31 survey were further investigated using various utility locators (Fisher TW-6 Pipe and Cable Locator, Subsite 970 Utility Locator and 3M Dynatel 2273 Cable Locator) and a Mala/RAMAC GPR system with a 250 MHz antenna. Based on the ground conditions and depths of anomalies, the GPR system was unable to produce usable data and the EM31 contour maps were further refined/supplemented, primarily with data collected using the utility locators. The results of the terrain conductivity survey are provided on Figure 4, the results of the metal detection survey are provided on Figure 5 and the results of the geophysical investigation are provided on Figure 6. A copy of the NAVEA report is provided as Appendix C.

4.0 PROPOSED FUTURE ACTIVITIES

As discussed above, all known piping originating on 301 Franklin Street has been removed. As such, "…the potential for petroleum contained in, and potentially spilled from, abandoned dilapidated piping" has been mitigated and no further action is required on 301 Franklin Street.

However, as discussed above, additional piping and GCM still remains on 351 Franklin Street. During 2015, additional test-pitting activities are planned to investigate several of the anomalies identified during the geophysical survey that do not correspond to known utilities to the existing buildings or known pipelines and further delineate the known GCM remaining at the Property. Using the data obtained from the additional test pitting; a larger piping removal and GCM excavation will be planned following the additional test pitting and investigation activities.

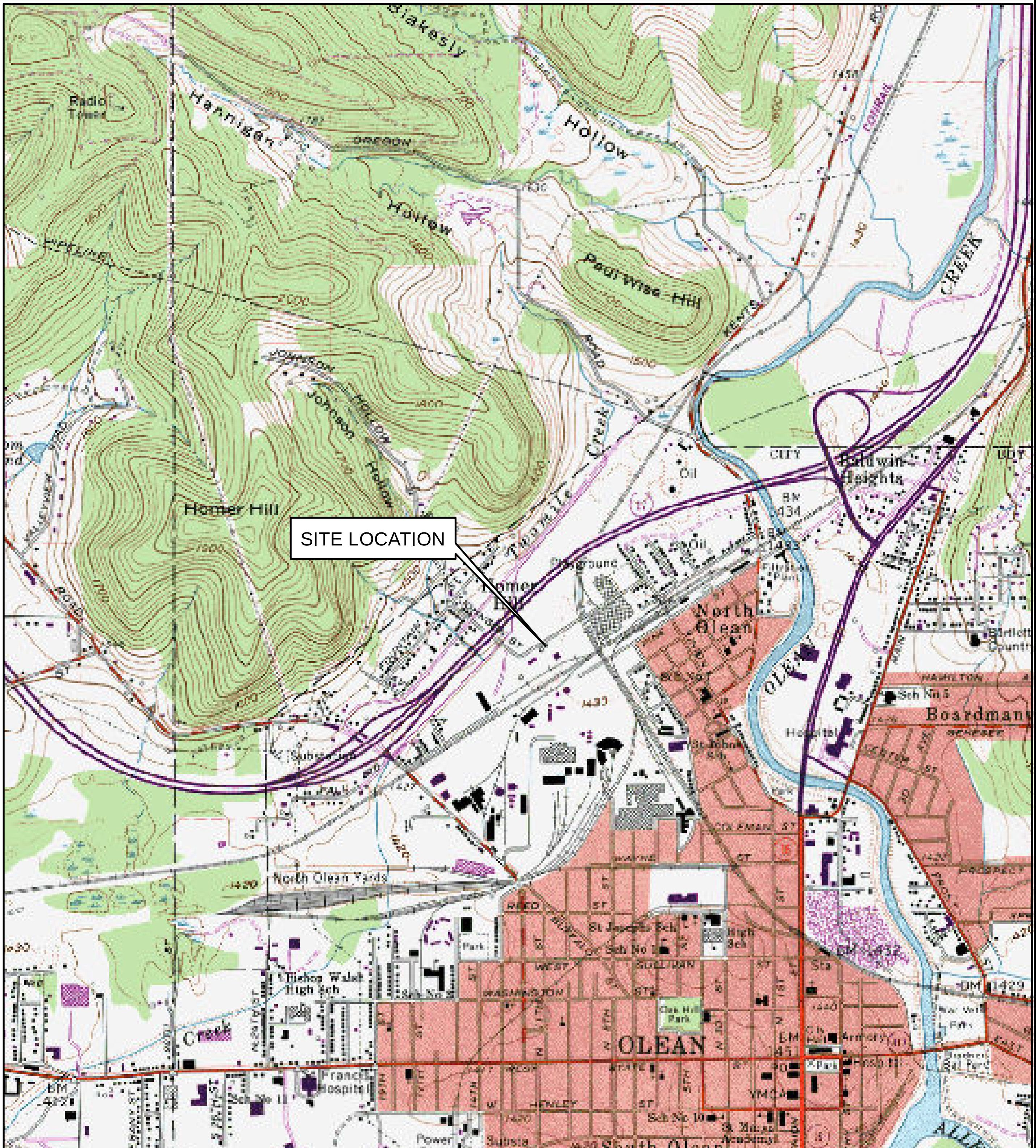
Respectfully Submitted,

ROUX ASSOCIATES, INC.

Jason Erbach, P.G., C.G.
Project Geologist/Field Work Supervisor

Ian Reed
Principal/Office Manager

FIGURES



QUADRANGLE LOCATION

N

SOURCE:
USGS: 1980, Olean, New York
7.5 Minute Topographic Quadrangle
Contour Interval 3 Meters

0 1,000 2,000 Feet

Title:

SITE LOCATION MAP

301/351 FRANKLIN STREET
OLEAN, NEW YORK

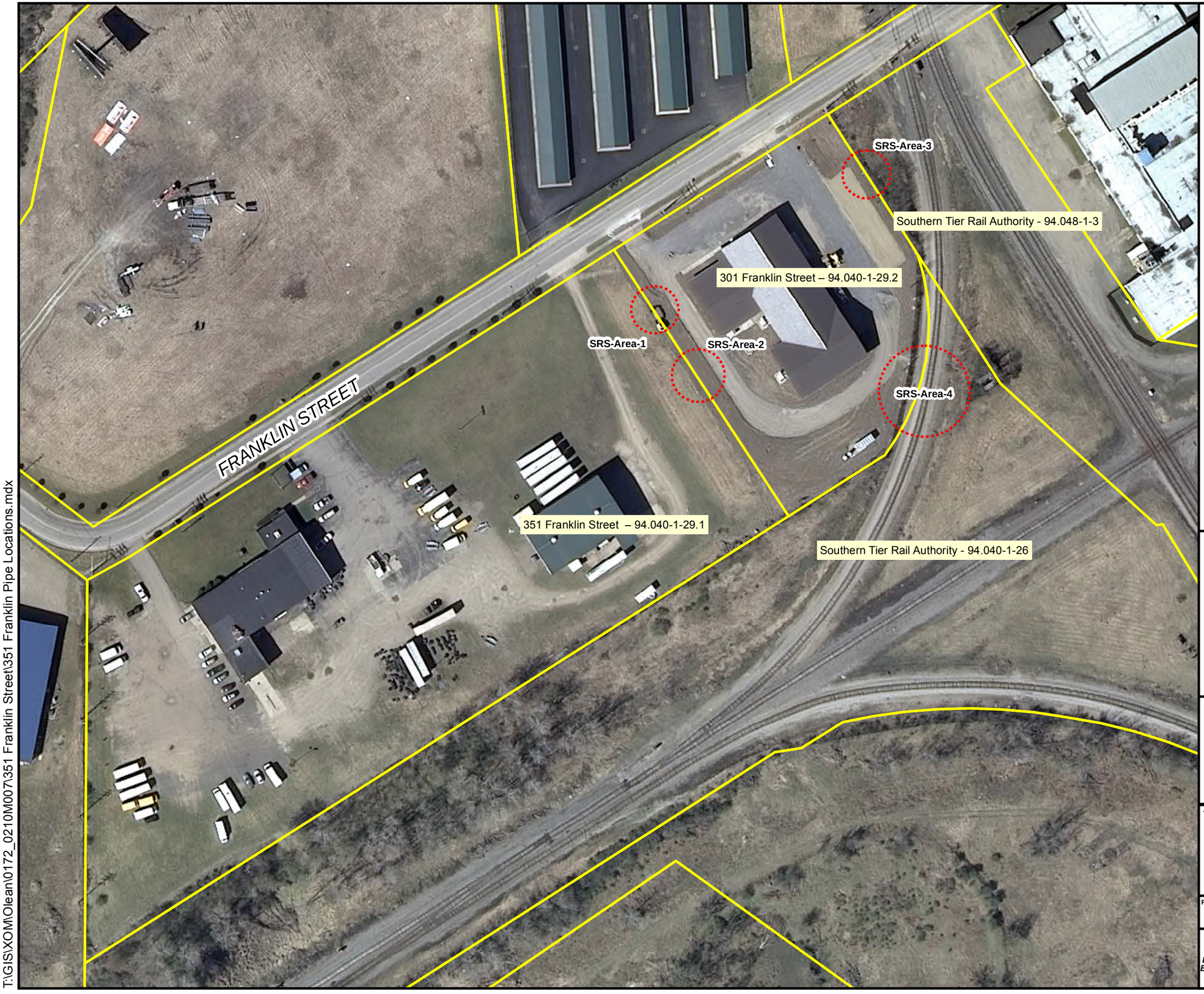
Prepared For:

ExxonMobil Environmental Services

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: JE	Date: 02/23/15	FIGURE
Prepared By: JE	Scale: AS SHOWN	1
Project Mgr.: IR	Office: MA	
File No.: 106.1	Project: 0172.0265M00	

T:\GIS\XOM\Olean\0172_0265M00\106.1.mxd



Legend

Areas of Piping Investigation (referred to as SRS Areas)

Property Boundaries

SOURCES

-Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center.
-Property Boundaries are obtained from Cattaragus County Office of Real Property.

NOTES

-All features shown are approximate.
-SRS areas are locations where Turnkey Environmental Restoration, LLC previously identified piping at the boundary of 301 Franklin Street.

SCALE

0 50 100 Feet

N

Title:

SITE PLAN

301/351 Franklin Street, Olean, NY
NYSDEC Spills No. 1300859

Prepared For:

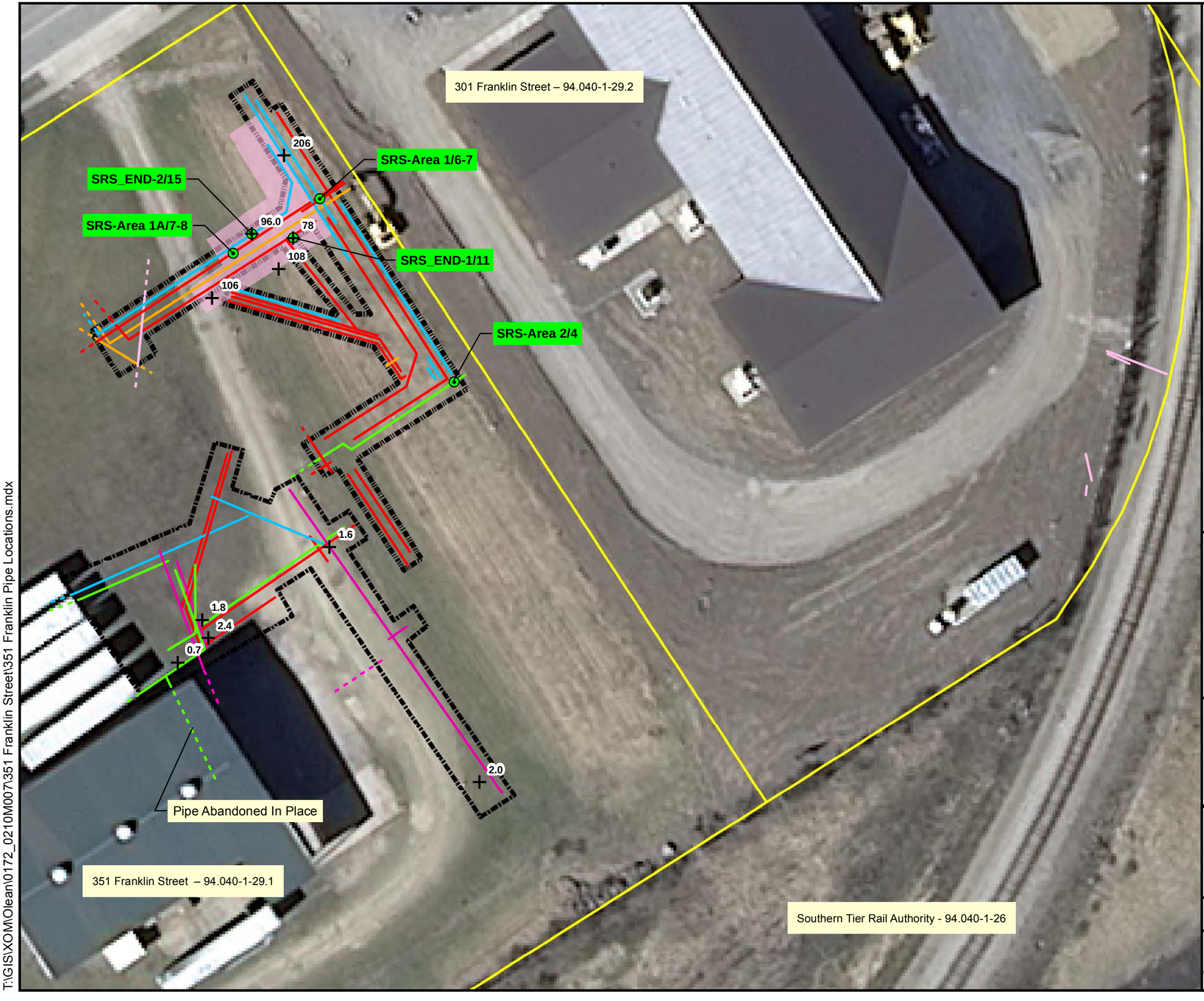
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: JL	Date: 3/30/2015
Prepared By: JL	Scale:AS SHOWN
Project Mgr.: IR	Office:MA
File No.: 106.2	Proj:0172.0265M000

FIGURE 2

T:\GIS\XOM\Olean\0172_0210M007\351 Franklin Street\351 Franklin Pipe Locations.mdx



T:\GIS\XOM\Olean\0172_0210M007\351 Franklin Street\351 Franklin Pipe Locations.mdx

Legend

- Property Boundaries
- Sample Locations
- 0.7 Soil Headspace Screening Location and Concentration
- Excavation Extent of Pipe Removal
- Excavation Extent of Grossly Contaminated Material

Pipe Removed

- 4" Pipe, Removed
- 6" Pipe, Removed
- 8" Pipe, Removed
- 10" Pipe, Removed
- 12" Pipe, Removed

Pipe Left in Place

- 4" Pipe Left in Place
- 6" Pipe Left in Place
- 8" Pipe Left in Place
- 10" Pipe Left in Place
- 12" Pipe Left in Place

SOURCES

-Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center.
-Property Boundaries are obtained from Cattaragus County Office of Real Property.

NOTES

-All features shown are approximate.
-Piping locations are derived from high precision GPS data.
-PID = Photoionization Detector
-Soil Headspace screening concentrations are in parts per million as recorded using a PID.

SCALE

0 15 30 Feet

N

Title:

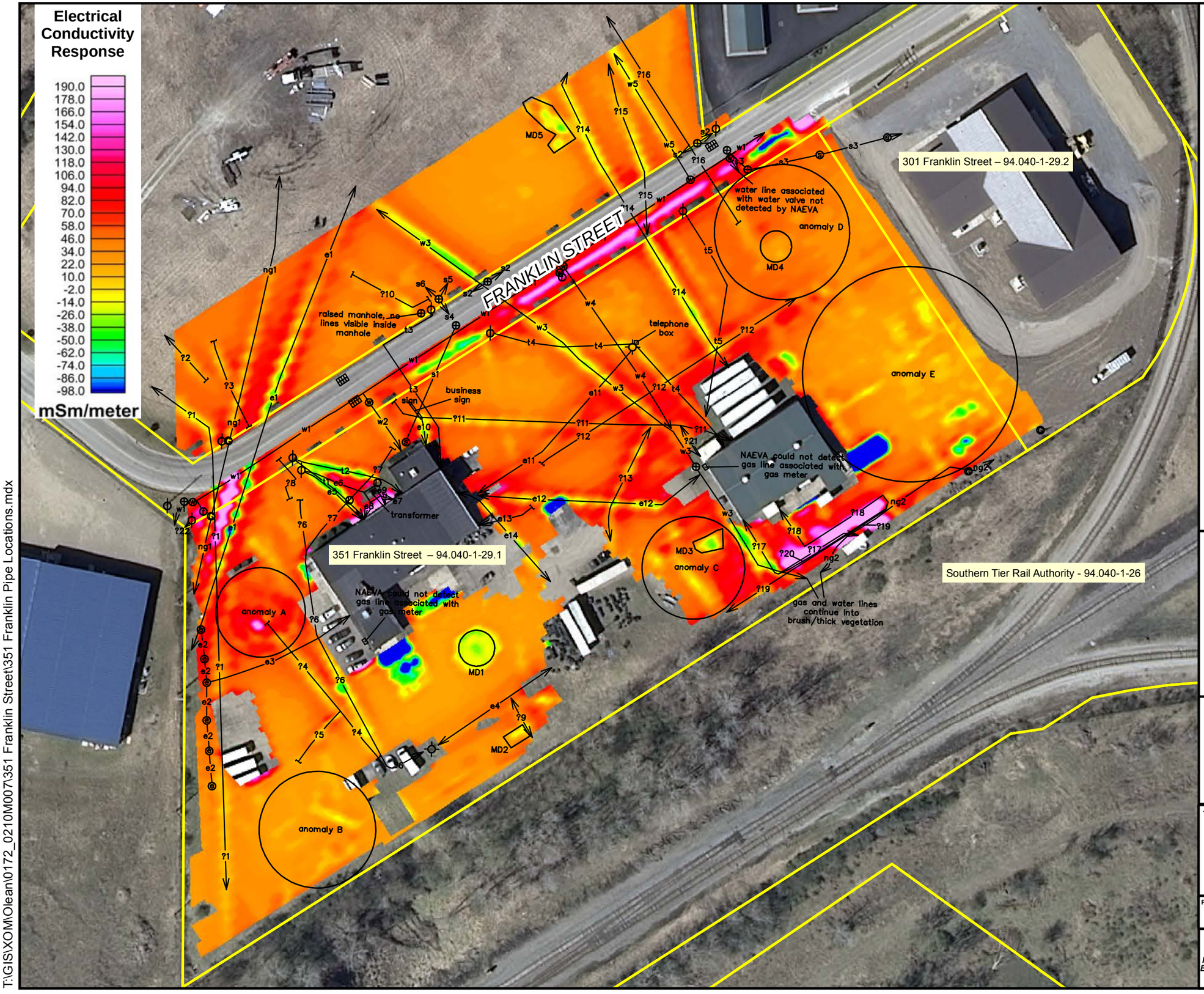
PIPING AND GCM EXCAVATION AREAS

301/351 Franklin Street, Olean, NY
NYSDEC Spills No. 1300859

Prepared For:
ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: JL	Date: 3/30/2015	FIGURE 3
Prepared By: JL	Scale:AS SHOWN	
Project Mgr.: IR	Office:MA	
File No.: 106.3	Proj:0172.0265M000	



Legend

- Utility pole
- Manhole
- Light pole
- Water valve
- Fire Hydrant
- Electric post
- Gas marker post
- Sewer cleanout
- Landscape lighting
- rc — Reinforced concrete
- Catch basin
- e — Electric line
- w — Water line
- s — Sewer line
- t — Telephone line
- ng — Natural gas line
- ? — Suspected utility of unknown use
- Metal detector anomaly
- Electromagnetic (EM) anomaly

SOURCES

-Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center.
-Property Boundaries are obtained from Cattaragus County Office of Real Property.
-Geophysical data, interpretation and survey results provided by NAEVA Geophysics.

NOTES

-All features shown are approximate.
-mSm/meter = millisiemens per meter

SCALE

0 40 80 Feet

N

Title:

EM31 QUADRATURE PHASE (TERRAIN CONDUCTIVITY) CONTOUR MAP

301/351 Franklin Street, Olean, NY
NYSDEC Spills No. 1300859

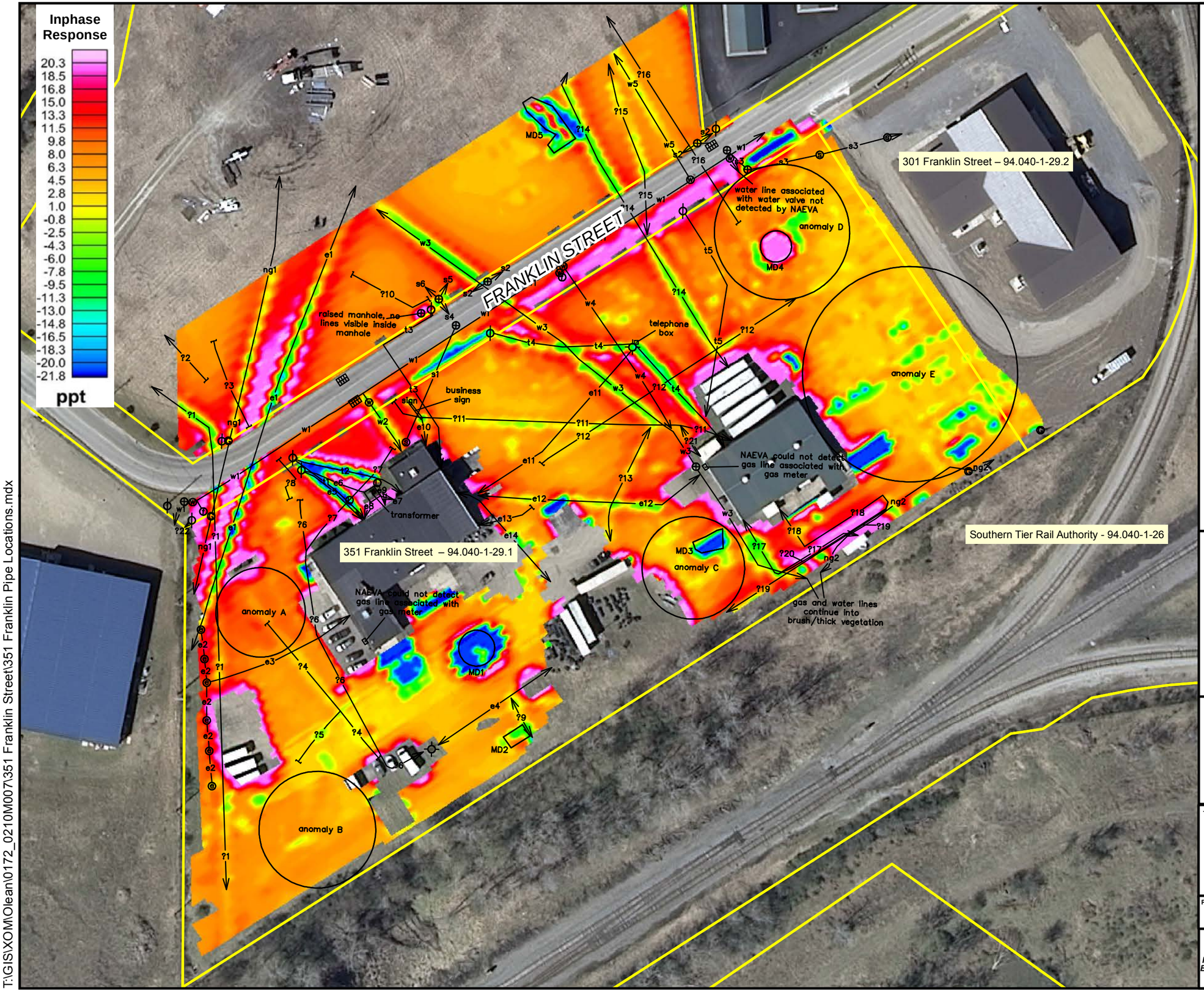
Prepared For:

ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: JL	Date: 3/30/2015	FIGURE 4
Prepared By: JL	Scale:AS SHOWN	
Project Mgr.: IR	Office:MA	
File No.: 106.4	Proj:0172.0265M000	

T:\GIS\XOM\Olean\0172_0210M007\351 Franklin Street\351 Franklin Pipe Locations.mdx



T:\GIS\XOM\Olean\0172_0210M007\351 Franklin Street\351 Franklin Pipe Locations.mdx

Legend

- Utility pole
- Manhole
- Light pole
- Water valve
- Fire Hydrant
- Electric post
- Gas marker post
- Sewer cleanout
- Landscape lighting
- rc — Reinforced concrete
- Catch basin
- —e— Electric line
- —w— Water line
- —s— Sewer line
- —t— Telephone line
- —ng— Natural gas line
- —?— Suspected utility of unknown use
- Metal detector anomaly
- Electromagnetic (EM) anomaly

SOURCES

-Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center.
-Property Boundaries are obtained from Cattaragus County Office of Real Property.
-Geophysical data, interpretation and survey results provided by NAEVA Geophysic

NOTES

-All features shown are approximate.
-ppt = parts per thousand

SCALE

0 40 80 Feet

N

Title:

EM31 INPHASE (METAL DETECTION) CONTOUR MAP

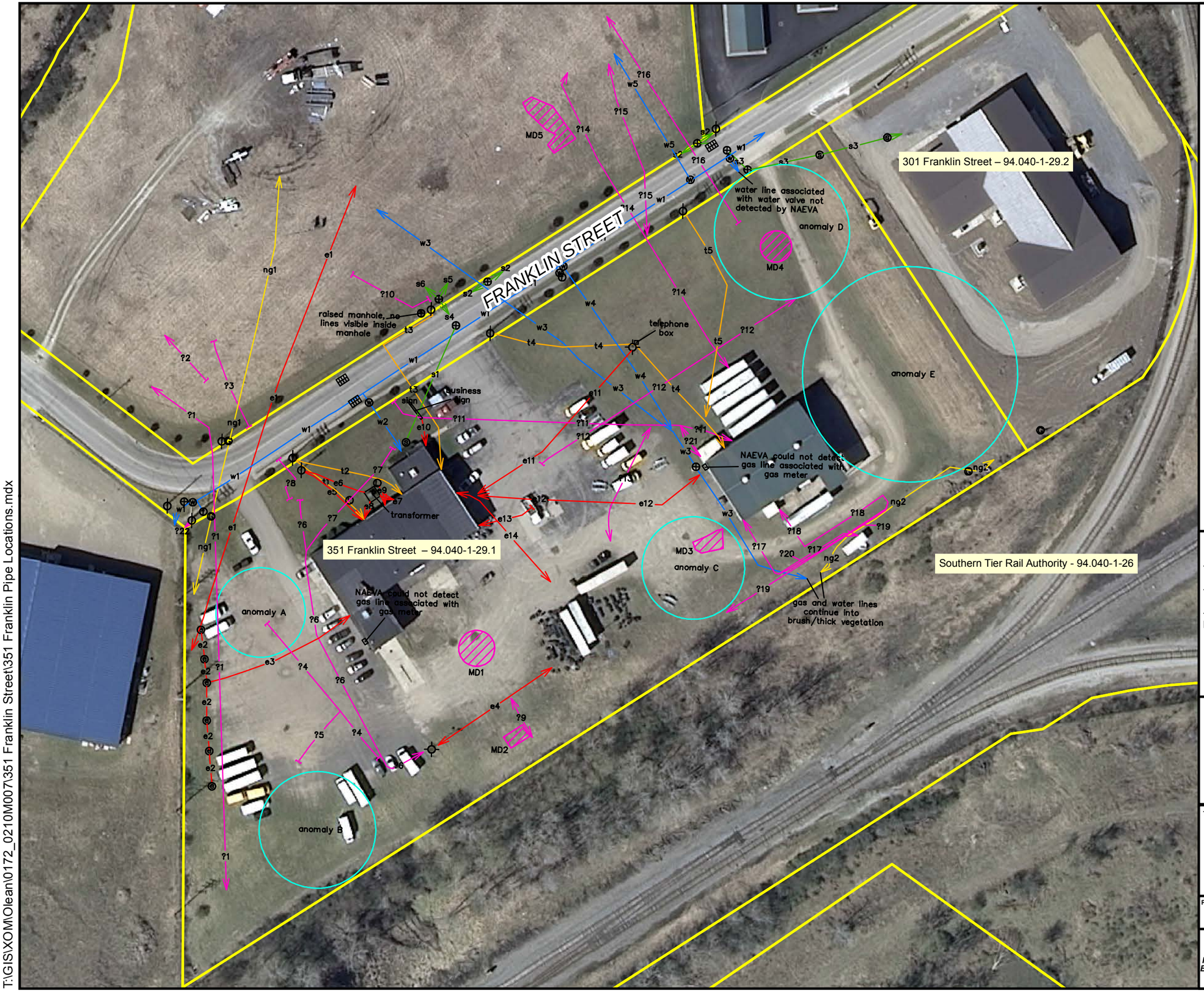
301/351 Franklin Street, Olean, NY
NYSDEC Spills No. 1300859

Prepared For:

ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled By: JL	Date: 3/30/2015	FIGURE 5
Prepared By: JL	Scale:AS SHOWN	
Project Mgr.: IR	Office:MA	
File No.: 106.5	Proj:0172.0265M000	



Legend

- Electric line
- Water line
- Natural gas line
- Sewer line
- Telephone line
- Suspected utility of unknown use
- Metal detector (MD) anomaly
- Catch basin
- Manhole cover
- Water valve
- Sewer cleanout
- Utility pole
- Light post
- Electrical post
- Landscape lighting
- Fire hydrant
- Electromagnetic (EM) anomalous area

SOURCES

-Aerial Photograph is a 2012 USGS high-resolution orthophoto obtained from the USGS Earth Resources Observation and Science Center.
-Property Boundaries are obtained from Cattaragus County Office of Real Property.
-Geophysical data, interpretation and survey results provided by NAEVA Geophysics.

NOTES

-All features shown are approximate.

SCALE

0 40 80 Feet

N

Title:

RESULTS OF A GEOPHYSICAL SURVEY

301/351 Franklin Street, Olean, NY
NYSDEC Spills No. 1300859

Prepared For:

ExxonMobil Environmental Services Company

ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled By: JL	Date: 3/30/2015	FIGURE 6
	Prepared By: JL	Scale:AS SHOWN	
	Project Mgr.: IR	Office:MA	
	File No.: 106.6	Proj:0172.0265M000	

T:\GIS\XOM\Olean\0172_0210M007\351 Franklin Street\351 Franklin Pipe Locations.mdx

APPENDICES

APPENDIX A

Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-37212-1
Client Project/Site: 301-351 Franklin Street, Olean, NY

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, Massachusetts 01801

Attn: Jason Weckbacher

Authorized for release by:
10/25/2013 4:32:01 PM
Heather Wagner, Project Manager I
heather.wagner@testamericainc.com

Designee for

Jennifer Huckaba, Project Manager I
(615)301-5042
jennifer.huckaba@testamericainc.com

Table of Contents

Sample Summary

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-37212-1	SRS-Area 2 / 4	Soil	09/27/13 12:30	10/08/13 08:30
490-37212-2	SRS-Area 1 / 6-7	Soil	09/30/13 09:25	10/08/13 08:30
490-37212-3	SRS-Area 1A / 7-8	Soil	10/01/13 09:10	10/08/13 08:30
490-37212-4	Trip Blank	Soil	10/01/13 00:01	10/08/13 08:30

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Job ID: 490-37212-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-37212-1

Comments
No additional comments.

Receipt
The samples were received on 10/8/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º C.

GC/MS VOA
Method(s) 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 112962 and 113259.

Method(s) 8260C: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): SRS-Area 1/6-7 (490-37212-2), SRS-Area 1A/7-8 (490-37212-3), SRS-Area 2/4 (490-37212-1). The dilution is from batch 113259.

Method(s) 8260C: Surrogate recovery for the following sample(s) was outside control limits: SRS-Area 1/6-7 (490-37212-2), SRS-Area 1A/7-8 (490-37212-3), SRS-Area 2/4 (490-37212-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed from the sodium bisulfate vials. The dilution was from the methanol vial. There was still interference on SRS-Area 1/6-7 (490-37212-2) which also had a surrogate outside control limits.

Method(s) 8260C: The following sample(s) was diluted due to the nature of the sample matrix: SRS-Area 1/6-7 (490-37212-2), SRS-Area 1A/7-8 (490-37212-3), SRS-Area 2/4 (490-37212-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270D: Matrix spikes for batch 113112 could not be recovered (or reported) due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: SRS-Area 1 / 6-7 (490-37212-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA (GRO)
Method(s) 8015D: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 113242. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8015D: The contaminant appears to be Motor Oil: SRS-Area 2/4 (490-37212-1). The chromatogram is included in this report.

Method(s) 8015D: The contaminant appears to be aged Diesel: SRS-Area 1/6-7 (490-37212-2). The chromatogram is included in this report.

Method(s) 8015D: The contamination appears to be Diesel: SRS-Area 1A/7-8 (490-37212-3). The chromatogram is included in this report.

No other analytical or quality issues were noted.

GC Semi VOA (DRO)
Method(s) 8015D: Due to the level of dilution required for the following samples, surrogate recoveries are not accurate: SRS-Area 1/6-7 (490-37212-2), SRS-Area 1A/7-8 (490-37212-3).

Method(s) 8015D: Surrogate recovery for the following sample(s) was outside control limits: SRS-Area 2/4 (490-37212-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 490-37212-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Method(s) 8015D: The following samples contained a petroleum product which most closely resembles Diesel: SRS-Area 1/6-7 (490-37212-2), SRS-Area 1A/7-8 (490-37212-3). The chromatograms are included in this report.

Method(s) 8015D: The following sample contained a petroleum product which most closely resembles Motor oil: SRS-Area 2/4 (490-37212-1). The chromatogram is included in this report.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B, 6010C: Matrix spikes for batch 490-114970 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010B, 6010C: The serial dilution performed for the following sample(s) associated with batch 490-114970 was outside control limitsfor As: 490-37495-a-10-b
(490-37495-10 SD)

Method(s) 6010B, 6010C: The post digestion spike % recovery for Se associated with batch 490-114790 was outside of control limits.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD 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
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)

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 2 / 4
Date Collected: 09/27/13 12:30
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-1
Matrix: Soil
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.195**		0.0877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Benzene	**0.0155**		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Bromochloromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Bromodichloromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Bromobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Bromoform	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Bromomethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
2-Butanone (MEK)	ND		0.0877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Carbon disulfide	ND		0.00877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Carbon tetrachloride	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Chlorobenzene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Chloroethane	ND		0.00877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Chloroform	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Chloromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
cis-1,2-Dichloroethene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
cis-1,3-Dichloropropene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Dibromochloromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,2-Dibromoethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,2-Dibromo-3-Chloropropane	ND		0.448		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,2-Dichlorobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,3-Dichlorobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Dichlorodifluoromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,1-Dichloroethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,4-Dichlorobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,2-Dichloroethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,1-Dichloroethene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,2-Dichloropropane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,3-Dichloropropane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
2,2-Dichloropropane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,1-Dichloropropene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Ethylbenzene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
2-Hexanone	ND		0.0877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Hexachlorobutadiene	ND		0.448		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Iodomethane	ND		0.0351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Isopropylbenzene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Methylene bromide	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Methylene Chloride	ND		0.0175		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.0877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Methyl tert butyl ether	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
m,p-Xylene	**0.00960**		0.00526		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Naphthalene	ND		0.448		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
n-Butylbenzene	**0.185**		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
N-Propylbenzene	**0.298**		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
o-Chlorotoluene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
o-Xylene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
p-Chlorotoluene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
p-Isopropyltoluene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
sec-Butylbenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Styrene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 2 / 4
Date Collected: 09/27/13 12:30
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-1
Matrix: Soil
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
tert-Butylbenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,1,2,2-Tetrachloroethane	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Tetrachloroethene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Toluene	**0.00708**		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
trans-1,2-Dichloroethene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
trans-1,3-Dichloropropene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,2,3-Trichlorobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,2,4-Trichlorobenzene	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,1,1-Trichloroethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,1,2-Trichloroethane	ND		0.00877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Trichloroethene	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Trichlorofluoromethane	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
1,2,3-Trichloropropane	ND		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,2,4-Trimethylbenzene	**0.865**		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
1,3,5-Trimethylbenzene	**0.643**		0.179		mg/Kg	☼	10/08/13 15:05	10/10/13 16:03	1
Vinyl acetate	ND		0.0351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Vinyl chloride	ND		0.00351		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1
Xylenes (total)	**0.0119**		0.00877		mg/Kg	☼	10/08/13 15:08	10/10/13 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:03*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:03*	*1*
4-Bromofluorobenzene (Surr)	*137*	*X **	*70 - 130*	*10/08/13 15:08*	*10/10/13 14:01*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:01*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Acenaphthylene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Aniline	ND		1.64		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Anthracene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzidine	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzo(a)anthracene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzo(a)pyrene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzo(b)fluoranthene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzo(g,h,i)perylene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzoic acid	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzo(k)fluoranthene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Benzyl alcohol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Bis(2-chloroethoxy)methane	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Bis(2-chloroethyl)ether	**1.69**		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
bis (2-chloroisopropyl) ether	**0.369**		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Bis(2-ethylhexyl) phthalate	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Bromophenyl phenyl ether	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Butyl benzyl phthalate	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 2 / 4
Date Collected: 09/27/13 12:30
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-1
Matrix: Soil
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Chloroaniline	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Chloro-3-methylphenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Chloronaphthalene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Chlorophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Chlorophenyl phenyl ether	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Chrysene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Dibenz(a,h)anthracene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Dibenzofuran	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1,2-Dichlorobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1,3-Dichlorobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1,4-Dichlorobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
3,3'-Dichlorobenzidine	ND		0.656		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4-Dichlorophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Diethyl phthalate	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4-Dimethylphenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Dimethyl phthalate	ND		1.64		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Di-n-butyl phthalate	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4,6-Dinitro-o-cresol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4-Dinitrophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4-Dinitrotoluene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,6-Dinitrotoluene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Di-n-octyl phthalate	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.324		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Fluoranthene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Fluorene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Hexachlorobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Hexachlorobutadiene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Hexachlorocyclopentadiene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Hexachloroethane	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Ideno(1,2,3-cd)pyrene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Isophorone	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1-Methylnaphthalene	**0.105**		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Methylnaphthalene	**0.127**		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Methylphenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
3 & 4 Methylphenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Naphthalene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Nitroaniline	ND		0.819		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Nitroaniline	ND		0.819		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
3-Nitroaniline	ND		0.819		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Nitrobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2-Nitrophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
4-Nitrophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
N-Nitrosodimethylamine	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
N-Nitrosodi-n-propylamine	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Pentachlorophenol	ND		0.819		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Phenanthrene	**0.0690**		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 2 / 4
Date Collected: 09/27/13 12:30
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-1
Matrix: Soil
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Pyrene	ND		0.0659		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
Pyridine	ND		0.656		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
1,2,4-Trichlorobenzene	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4,6-Trichlorophenol	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1
2,4,5-Trichlorophenol	ND		0.819		mg/Kg	☼	10/09/13 14:10	10/10/13 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*29 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*
Nitrobenzene-d5 (Surr)	*54*		*27 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*
Phenol-d5 (Surr)	*60*		*10 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*
Terphenyl-d14 (Surr)	*72*		*13 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 120*	*10/09/13 14:10*	*10/10/13 20:27*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**43.0**		7.87		mg/Kg	☼	10/08/13 15:05	10/10/13 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*75*		*50 - 150*	*10/08/13 15:05*	*10/10/13 03:44*	*1*

Method: 8015D - Diesel Range Orgnics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**158**		4.98		mg/Kg	☼	10/10/13 07:22	10/11/13 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*	*X*	*50 - 150*	*10/10/13 07:22*	*10/11/13 11:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**18.1**		2.57		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Barium	**86.7**		2.57		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Cadmium	**2.93**		1.28		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Chromium	**18.9**		1.28		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Lead	**195**		1.28		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Selenium	ND		2.57		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	1
Silver	ND		1.28		mg/Kg	☼	10/17/13 08:39	10/17/13 18:42	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	**0.721**		0.132		mg/Kg	☼	10/14/13 07:43	10/15/13 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**76**		0.10		%			10/08/13 16:17	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 1 / 6-7
Date Collected: 09/30/13 09:25
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-2
Matrix: Soil
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.184**		0.0556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Benzene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Bromochloromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Bromodichloromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Bromobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Bromoform	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Bromomethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
2-Butanone (MEK)	ND		0.0556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Carbon disulfide	**0.0715**		0.00556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Carbon tetrachloride	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Chlorobenzene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Chloroethane	ND		0.00556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Chloroform	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Chloromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
cis-1,2-Dichloroethene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
cis-1,3-Dichloropropene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Dibromochloromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,2-Dibromoethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,2-Dibromo-3-Chloropropane	ND		0.282		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,2-Dichlorobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,3-Dichlorobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Dichlorodifluoromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,1-Dichloroethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,4-Dichlorobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,2-Dichloroethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,1-Dichloroethene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,2-Dichloropropane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,3-Dichloropropane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
2,2-Dichloropropane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,1-Dichloropropene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Ethylbenzene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
2-Hexanone	ND		0.0556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Hexachlorobutadiene	ND		0.282		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Iodomethane	ND		0.0222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Isopropylbenzene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Methylene bromide	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Methylene Chloride	ND		0.0111		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
4-Methyl-2-pentanone (MIBK)	ND		0.0556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Methyl tert butyl ether	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
m,p-Xylene	ND		0.00334		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Naphthalene	ND		0.282		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
n-Butylbenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
N-Propylbenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
o-Chlorotoluene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
o-Xylene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
p-Chlorotoluene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
p-Isopropyltoluene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
sec-Butylbenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Styrene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1

Client Sample ID: SRS-Area 1 / 6-7
Date Collected: 09/30/13 09:25
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-2
Matrix: Soil
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
tert-Butylbenzene	**0.244**		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,1,2,2-Tetrachloroethane	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Tetrachloroethene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Toluene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
trans-1,2-Dichloroethene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
trans-1,3-Dichloropropene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,2,3-Trichlorobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,2,4-Trichlorobenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,1,1-Trichloroethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,1,2-Trichloroethane	ND		0.00556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Trichloroethene	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Trichlorofluoromethane	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
1,2,3-Trichloropropane	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,2,4-Trimethylbenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
1,3,5-Trimethylbenzene	ND		0.113		mg/Kg	☼	10/08/13 15:05	10/10/13 16:30	1
Vinyl acetate	ND		0.0222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Vinyl chloride	ND		0.00222		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1
Xylenes (total)	ND		0.00556		mg/Kg	☼	10/08/13 15:08	10/10/13 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*X*	*70 - 130*	*10/08/13 15:05*	*10/10/13 16:30*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:30*	*1*
4-Bromofluorobenzene (Surr)	*1778*	*X **	*70 - 130*	*10/08/13 15:08*	*10/10/13 14:28*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:28*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Acenaphthylene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Aniline	ND		1.66		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Anthracene	ND		0.332		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Benzidine	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzo(a)anthracene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzo(a)pyrene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzo(b)fluoranthene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzo(g,h,i)perylene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzoic acid	**0.346**		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzo(k)fluoranthene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Benzyl alcohol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Bis(2-chloroethoxy)methane	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Bis(2-chloroethyl)ether	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
bis (2-chloroisopropyl) ether	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Bis(2-ethylhexyl) phthalate	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
4-Bromophenyl phenyl ether	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Butyl benzyl phthalate	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 1 / 6-7
Date Collected: 09/30/13 09:25
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-2
Matrix: Soil
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
4-Chloroaniline	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
4-Chloro-3-methylphenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Chloronaphthalene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Chlorophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
4-Chlorophenyl phenyl ether	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Chrysene	**0.0729**		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Dibenz(a,h)anthracene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Dibenzofuran	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1,2-Dichlorobenzene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1,3-Dichlorobenzene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1,4-Dichlorobenzene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
3,3'-Dichlorobenzidine	ND		0.662		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,4-Dichlorophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Diethyl phthalate	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,4-Dimethylphenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Dimethyl phthalate	ND		1.66		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Di-n-butyl phthalate	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
4,6-Dinitro-o-cresol	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
2,4-Dinitrophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,4-Dinitrotoluene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,6-Dinitrotoluene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Di-n-octyl phthalate	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.327		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Fluoranthene	ND		0.332		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Fluorene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Hexachlorobenzene	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Hexachlorobutadiene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Hexachlorocyclopentadiene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Hexachloroethane	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Ideno(1,2,3-cd)pyrene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Isophorone	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1-Methylnaphthalene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Methylnaphthalene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Methylphenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
3 & 4 Methylphenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Naphthalene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
4-Nitroaniline	ND		0.827		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Nitroaniline	ND		0.827		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
3-Nitroaniline	ND		0.827		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Nitrobenzene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2-Nitrophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
4-Nitrophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
N-Nitrosodimethylamine	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
N-Nitrosodi-n-propylamine	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.65		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Pentachlorophenol	ND		4.13		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5
Phenanthrene	ND		0.332		mg/Kg	☼	10/09/13 14:10	10/11/13 18:07	5

Client Sample ID: SRS-Area 1 / 6-7
Date Collected: 09/30/13 09:25
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-2
Matrix: Soil
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Pyrene	ND		0.0665		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
Pyridine	ND		0.662		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
1,2,4-Trichlorobenzene	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,4,6-Trichlorophenol	ND		0.330		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1
2,4,5-Trichlorophenol	**1.64**		0.827		mg/Kg	☼	10/09/13 14:10	10/10/13 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*29 - 120*	*10/09/13 14:10*	*10/10/13 20:49*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*10/09/13 14:10*	*10/10/13 20:49*	*1*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*	*10/09/13 14:10*	*10/10/13 20:49*	*1*
Phenol-d5 (Surr)	*68*		*10 - 120*	*10/09/13 14:10*	*10/10/13 20:49*	*1*
Terphenyl-d14 (Surr)	*54*		*13 - 120*	*10/09/13 14:10*	*10/10/13 20:49*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 120*	*10/09/13 14:10*	*10/11/13 18:07*	*5*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**136**		5.93		mg/Kg	☼	10/08/13 15:05	10/10/13 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*76*		*50 - 150*	*10/08/13 15:05*	*10/10/13 04:12*	*1*

Method: 8015D - Diesel Range Orgnics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**11500**		1220		mg/Kg	☼	10/10/13 07:22	10/11/13 12:46	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*843*	*X*	*50 - 150*	*10/10/13 07:22*	*10/11/13 12:46*	*250*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**25.7**		2.36		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Barium	**34.6**		2.36		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Cadmium	**2.94**		1.18		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Chromium	**6.90**		1.18		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Lead	**51.4**		1.18		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Selenium	ND		2.36		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	1
Silver	ND		1.18		mg/Kg	☼	10/17/13 08:39	10/17/13 18:47	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	ND		0.117		mg/Kg	☼	10/14/13 07:43	10/15/13 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**84**		0.10		%			10/08/13 16:17	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 1A / 7-8
Date Collected: 10/01/13 09:10
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-3
Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.165**		0.0604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Benzene	**0.0288**		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Bromochloromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Bromodichloromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Bromobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Bromoform	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Bromomethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
2-Butanone (MEK)	ND		0.0604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Carbon disulfide	**0.0215**		0.00604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Carbon tetrachloride	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Chlorobenzene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Chloroethane	ND		0.00604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Chloroform	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Chloromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
cis-1,2-Dichloroethene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
cis-1,3-Dichloropropene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Dibromochloromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,2-Dibromoethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,2-Dibromo-3-Chloropropane	ND		0.311		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,2-Dichlorobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,3-Dichlorobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Dichlorodifluoromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,1-Dichloroethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,4-Dichlorobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,2-Dichloroethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,1-Dichloroethene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,2-Dichloropropane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,3-Dichloropropane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
2,2-Dichloropropane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,1-Dichloropropene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Ethylbenzene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
2-Hexanone	ND		0.0604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Hexachlorobutadiene	ND		0.311		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Iodomethane	ND		0.0242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Isopropylbenzene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Methylene bromide	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Methylene Chloride	ND		0.0121		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Methyl tert butyl ether	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
m,p-Xylene	ND		0.00362		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Naphthalene	ND		0.311		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
n-Butylbenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
N-Propylbenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
o-Chlorotoluene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
o-Xylene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
p-Chlorotoluene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
p-Isopropyltoluene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
sec-Butylbenzene	**0.492**		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Styrene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1

Client Sample ID: SRS-Area 1A / 7-8
Date Collected: 10/01/13 09:10
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-3
Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
tert-Butylbenzene	**0.415**		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,1,2,2-Tetrachloroethane	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Tetrachloroethene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Toluene	**0.00626**		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
trans-1,2-Dichloroethene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
trans-1,3-Dichloropropene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,2,3-Trichlorobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,2,4-Trichlorobenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,1,1-Trichloroethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,1,2-Trichloroethane	ND		0.00604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Trichloroethene	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Trichlorofluoromethane	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
1,2,3-Trichloropropane	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,2,4-Trimethylbenzene	**0.180**		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
1,3,5-Trimethylbenzene	ND		0.124		mg/Kg	☼	10/08/13 15:05	10/10/13 16:57	1
Vinyl acetate	ND		0.0242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Vinyl chloride	ND		0.00242		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1
Xylenes (total)	ND		0.00604		mg/Kg	☼	10/08/13 15:08	10/10/13 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*X*	*70 - 130*	*10/08/13 15:05*	*10/10/13 16:57*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:57*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*10/08/13 15:05*	*10/10/13 16:57*	*1*
4-Bromofluorobenzene (Surr)	*3084*	*X **	*70 - 130*	*10/08/13 15:08*	*10/10/13 14:55*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*10/08/13 15:08*	*10/10/13 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*258*	*X*	*70 - 130*	*10/08/13 15:08*	*10/10/13 14:55*	*1*
Toluene-d8 (Surr)	*644*	*X*	*70 - 130*	*10/08/13 15:08*	*10/10/13 14:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Acenaphthylene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Aniline	ND		1.64		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Anthracene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzidine	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzo(a)anthracene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzo(a)pyrene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzo(b)fluoranthene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzo(g,h,i)perylene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzoic acid	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzo(k)fluoranthene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Benzyl alcohol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Bis(2-chloroethoxy)methane	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Bis(2-chloroethyl)ether	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
bis (2-chloroisopropyl) ether	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Bis(2-ethylhexyl) phthalate	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Bromophenyl phenyl ether	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Butyl benzyl phthalate	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 1A / 7-8
Date Collected: 10/01/13 09:10
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-3
Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Chloroaniline	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Chloro-3-methylphenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Chloronaphthalene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Chlorophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Chlorophenyl phenyl ether	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Chrysene	**0.103**		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Dibenz(a,h)anthracene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Dibenzofuran	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1,2-Dichlorobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1,3-Dichlorobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1,4-Dichlorobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
3,3'-Dichlorobenzidine	ND		0.654		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4-Dichlorophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Diethyl phthalate	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4-Dimethylphenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Dimethyl phthalate	ND		1.64		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Di-n-butyl phthalate	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4,6-Dinitro-o-cresol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4-Dinitrophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4-Dinitrotoluene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,6-Dinitrotoluene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Di-n-octyl phthalate	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.323		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Fluoranthene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Fluorene	**0.166**		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Hexachlorobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Hexachlorobutadiene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Hexachlorocyclopentadiene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Hexachloroethane	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Ideno(1,2,3-cd)pyrene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Isophorone	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1-Methylnaphthalene	**0.625**		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Methylnaphthalene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Methylphenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
3 & 4 Methylphenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Naphthalene	ND		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Nitroaniline	ND		0.816		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Nitroaniline	ND		0.816		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
3-Nitroaniline	ND		0.816		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Nitrobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2-Nitrophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
4-Nitrophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
N-Nitrosodimethylamine	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
N-Nitrosodi-n-propylamine	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Pentachlorophenol	ND		0.816		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Phenanthrene	**0.411**		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1

Client Sample ID: SRS-Area 1A / 7-8
Date Collected: 10/01/13 09:10
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-3
Matrix: Soil
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Pyrene	**0.0899**		0.0657		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
Pyridine	ND		0.654		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
1,2,4-Trichlorobenzene	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4,6-Trichlorophenol	ND		0.326		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1
2,4,5-Trichlorophenol	ND		0.816		mg/Kg	☼	10/09/13 14:10	10/10/13 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*29 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*
Phenol-d5 (Surr)	*58*		*10 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*
Terphenyl-d14 (Surr)	*71*		*13 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 120*	*10/09/13 14:10*	*10/10/13 21:12*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	**1040**		130		mg/Kg	☼	10/08/13 15:05	10/10/13 15:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*	*10/08/13 15:05*	*10/10/13 15:56*	*20*

Method: 8015D - Diesel Range Orgnics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3810**		122		mg/Kg	☼	10/10/13 07:22	10/11/13 01:31	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*418*	*X*	*50 - 150*	*10/10/13 07:22*	*10/11/13 01:31*	*25*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**36.0**		2.44		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Barium	**57.6**		2.44		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Cadmium	**3.26**		1.22		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Chromium	**10.7**		1.22		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Lead	**67.3**		1.22		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Selenium	ND		2.44		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	1
Silver	ND		1.22		mg/Kg	☼	10/17/13 08:39	10/17/13 18:52	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	**0.646**		0.120		mg/Kg	☼	10/14/13 07:43	10/15/13 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**80**		0.10		%			10/08/13 16:17	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: Trip Blank
Date Collected: 10/01/13 00:01
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-4
Matrix: Soil

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Benzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Bromobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Bromochloromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Bromodichloromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Bromoform	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Bromomethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
2-Butanone (MEK)	ND		0.0500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Carbon disulfide	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Carbon tetrachloride	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Chlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Chloroethane	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Chloroform	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Chloromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Dibromochloromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2-Dibromoethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1-Dichloroethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2-Dichloroethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1-Dichloroethene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2-Dichloropropane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,3-Dichloropropane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
2,2-Dichloropropane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1-Dichloropropene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Ethylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Hexachlorobutadiene	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
2-Hexanone	ND		0.0500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Iodomethane	ND		0.0200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Isopropylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Methylene bromide	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Methylene Chloride	ND		0.0100		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Methyl tert butyl ether	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
m,p-Xylene	ND		0.00300		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Naphthalene	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
n-Butylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
N-Propylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
o-Chlorotoluene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
o-Xylene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
p-Chlorotoluene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
p-Isopropyltoluene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
sec-Butylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Styrene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: Trip Blank
Date Collected: 10/01/13 00:01
Date Received: 10/08/13 08:30

Lab Sample ID: 490-37212-4
Matrix: Soil

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Tetrachloroethene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Toluene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Trichloroethene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Trichlorofluoromethane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Vinyl acetate	ND		0.0200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Vinyl chloride	ND		0.00200		mg/Kg		10/08/13 15:08	10/09/13 13:25	1
Xylenes (total)	ND		0.00500		mg/Kg		10/08/13 15:08	10/09/13 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/08/13 15:08*	*10/09/13 13:25*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*10/08/13 15:08*	*10/09/13 13:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*10/08/13 15:08*	*10/09/13 13:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*10/08/13 15:08*	*10/09/13 13:25*	*1*

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

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

Lab Sample ID: MB 490-112962/7
Matrix: Solid
Analysis Batch: 112962

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/Kg			10/09/13 12:58	1
Benzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Bromobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Bromochloromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
Bromodichloromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
Bromoform	ND		0.00200		mg/Kg			10/09/13 12:58	1
Bromomethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			10/09/13 12:58	1
Carbon disulfide	ND		0.00500		mg/Kg			10/09/13 12:58	1
Carbon tetrachloride	ND		0.00200		mg/Kg			10/09/13 12:58	1
Chlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Chloroethane	ND		0.00500		mg/Kg			10/09/13 12:58	1
Chloroform	ND		0.00200		mg/Kg			10/09/13 12:58	1
Chloromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 12:58	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Dibromochloromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			10/09/13 12:58	1
1,2-Dibromoethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 12:58	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Ethylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			10/09/13 12:58	1
2-Hexanone	ND		0.0500		mg/Kg			10/09/13 12:58	1
Iodomethane	ND		0.0200		mg/Kg			10/09/13 12:58	1
Isopropylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Methylene bromide	ND		0.00200		mg/Kg			10/09/13 12:58	1
Methylene Chloride	ND		0.0100		mg/Kg			10/09/13 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			10/09/13 12:58	1
Methyl tert butyl ether	ND		0.00200		mg/Kg			10/09/13 12:58	1
m,p-Xylene	ND		0.00300		mg/Kg			10/09/13 12:58	1
Naphthalene	ND		0.00500		mg/Kg			10/09/13 12:58	1
n-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
N-Propylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
o-Chlorotoluene	ND		0.00200		mg/Kg			10/09/13 12:58	1
o-Xylene	ND		0.00200		mg/Kg			10/09/13 12:58	1
p-Chlorotoluene	ND		0.00200		mg/Kg			10/09/13 12:58	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			10/09/13 12:58	1
sec-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1

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

Lab Sample ID: MB 490-112962/7
Matrix: Solid
Analysis Batch: 112962

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00200		mg/Kg			10/09/13 12:58	1
tert-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
Tetrachloroethene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Toluene	ND		0.00200		mg/Kg			10/09/13 12:58	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 12:58	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			10/09/13 12:58	1
Trichloroethene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			10/09/13 12:58	1
Vinyl acetate	ND		0.0200		mg/Kg			10/09/13 12:58	1
Vinyl chloride	ND		0.00200		mg/Kg			10/09/13 12:58	1
Xylenes (total)	ND		0.00500		mg/Kg			10/09/13 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/13 12:58*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/09/13 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/09/13 12:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/09/13 12:58*	*1*

Lab Sample ID: LCS 490-112962/3
Matrix: Solid
Analysis Batch: 112962

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2251		mg/Kg		90	51 - 149
Benzene	0.0500	0.04939		mg/Kg		99	75 - 127
Bromobenzene	0.0500	0.04882		mg/Kg		98	75 - 130
Bromochloromethane	0.0500	0.05082		mg/Kg		102	70 - 132
Bromodichloromethane	0.0500	0.04792		mg/Kg		96	68 - 135
Bromoform	0.0500	0.04603		mg/Kg		92	36 - 150
Bromomethane	0.0500	0.06270		mg/Kg		125	43 - 142
2-Butanone (MEK)	0.250	0.2456		mg/Kg		98	61 - 132
Carbon disulfide	0.0500	0.05042		mg/Kg		101	74 - 135
Carbon tetrachloride	0.0500	0.05031		mg/Kg		101	70 - 141
Chlorobenzene	0.0500	0.04954		mg/Kg		99	84 - 125
Chloroethane	0.0500	0.05485		mg/Kg		110	53 - 144
Chloroform	0.0500	0.04858		mg/Kg		97	76 - 130
Chloromethane	0.0500	0.05642		mg/Kg		113	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05045		mg/Kg		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05067		mg/Kg		101	73 - 148

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

Lab Sample ID: LCS 490-112962/3
Matrix: Solid
Analysis Batch: 112962

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	0.0500	0.04963		mg/Kg		99	66 - 134
1,2-Dibromo-3-Chloropropane	0.0500	0.04644		mg/Kg		93	49 - 142
1,2-Dibromoethane	0.0500	0.04805		mg/Kg		96	80 - 135
1,2-Dichlorobenzene	0.0500	0.04993		mg/Kg		100	80 - 134
1,3-Dichlorobenzene	0.0500	0.05032		mg/Kg		101	79 - 137
1,4-Dichlorobenzene	0.0500	0.05032		mg/Kg		101	77 - 139
Dichlorodifluoromethane	0.0500	0.06637		mg/Kg		133	12 - 144
1,1-Dichloroethane	0.0500	0.05010		mg/Kg		100	75 - 124
1,2-Dichloroethane	0.0500	0.04706		mg/Kg		94	65 - 134
1,1-Dichloroethene	0.0500	0.04963		mg/Kg		99	75 - 131
1,2-Dichloropropane	0.0500	0.04918		mg/Kg		98	69 - 120
1,3-Dichloropropane	0.0500	0.04902		mg/Kg		98	78 - 126
2,2-Dichloropropane	0.0500	0.04917		mg/Kg		98	68 - 145
1,1-Dichloropropene	0.0500	0.05044		mg/Kg		101	79 - 127
Ethylbenzene	0.0500	0.04929		mg/Kg		99	80 - 134
Hexachlorobutadiene	0.0500	0.05108		mg/Kg		102	65 - 148
2-Hexanone	0.250	0.2542		mg/Kg		102	57 - 148
Iodomethane	0.0500	0.05383		mg/Kg		108	57 - 150
Isopropylbenzene	0.0500	0.04989		mg/Kg		100	80 - 150
Methylene bromide	0.0500	0.04818		mg/Kg		96	71 - 130
Methylene Chloride	0.0500	0.04812		mg/Kg		96	68 - 144
4-Methyl-2-pentanone (MIBK)	0.250	0.2507		mg/Kg		100	59 - 138
Methyl tert butyl ether	0.0500	0.04766		mg/Kg		95	70 - 136
m,p-Xylene	0.0500	0.04972		mg/Kg		99	80 - 137
Naphthalene	0.0500	0.05170		mg/Kg		103	69 - 150
n-Butylbenzene	0.0500	0.05269		mg/Kg		105	72 - 152
N-Propylbenzene	0.0500	0.05083		mg/Kg		102	75 - 137
o-Chlorotoluene	0.0500	0.04925		mg/Kg		98	78 - 132
o-Xylene	0.0500	0.04895		mg/Kg		98	80 - 141
p-Chlorotoluene	0.0500	0.05005		mg/Kg		100	77 - 138
p-Isopropyltoluene	0.0500	0.05061		mg/Kg		101	77 - 141
sec-Butylbenzene	0.0500	0.05026		mg/Kg		101	79 - 141
Styrene	0.0500	0.05137		mg/Kg		103	82 - 137
tert-Butylbenzene	0.0500	0.04904		mg/Kg		98	80 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.04878		mg/Kg		98	80 - 136
1,1,2,2-Tetrachloroethane	0.0500	0.05463		mg/Kg		109	66 - 134
Tetrachloroethene	0.0500	0.05125		mg/Kg		102	78 - 140
Toluene	0.0500	0.04923		mg/Kg		98	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05032		mg/Kg		101	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05070		mg/Kg		101	62 - 139
1,2,3-Trichlorobenzene	0.0500	0.05170		mg/Kg		103	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.05414		mg/Kg		108	62 - 150
1,1,1-Trichloroethane	0.0500	0.04974		mg/Kg		99	72 - 140
1,1,2-Trichloroethane	0.0500	0.04880		mg/Kg		98	78 - 128
Trichloroethene	0.0500	0.04788		mg/Kg		96	77 - 127
Trichlorofluoromethane	0.0500	0.05354		mg/Kg		107	50 - 140
1,2,3-Trichloropropane	0.0500	0.04870		mg/Kg		97	65 - 139
1,2,4-Trimethylbenzene	0.0500	0.04951		mg/Kg		99	77 - 139

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

Lab Sample ID: LCS 490-112962/3
Matrix: Solid
Analysis Batch: 112962

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	0.0500	0.05001		mg/Kg		100	78 - 138
Vinyl acetate	0.100	0.1396		mg/Kg		140	23 - 150
Vinyl chloride	0.0500	0.05637		mg/Kg		113	47 - 136
Xylenes (total)	0.100	0.09867		mg/Kg		99	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 490-112962/4
Matrix: Solid
Analysis Batch: 112962

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.2250		mg/Kg		90	51 - 149	0	50
Benzene	0.0500	0.04850		mg/Kg		97	75 - 127	2	50
Bromobenzene	0.0500	0.04766		mg/Kg		95	75 - 130	2	50
Bromochloromethane	0.0500	0.04958		mg/Kg		99	70 - 132	2	50
Bromodichloromethane	0.0500	0.04831		mg/Kg		97	68 - 135	1	50
Bromoform	0.0500	0.04403		mg/Kg		88	36 - 150	4	50
2-Butanone (MEK)	0.250	0.2422		mg/Kg		97	61 - 132	1	50
Carbon disulfide	0.0500	0.04888		mg/Kg		98	74 - 135	3	50
Carbon tetrachloride	0.0500	0.04902		mg/Kg		98	70 - 141	3	50
Chlorobenzene	0.0500	0.04806		mg/Kg		96	84 - 125	3	50
Chloroform	0.0500	0.04738		mg/Kg		95	76 - 130	2	49
cis-1,2-Dichloroethene	0.0500	0.04914		mg/Kg		98	75 - 125	3	50
cis-1,3-Dichloropropene	0.0500	0.04923		mg/Kg		98	73 - 148	3	50
Dibromochloromethane	0.0500	0.04749		mg/Kg		95	66 - 134	4	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04498		mg/Kg		90	49 - 142	3	50
1,2-Dibromoethane	0.0500	0.04747		mg/Kg		95	80 - 135	1	50
1,2-Dichlorobenzene	0.0500	0.04798		mg/Kg		96	80 - 134	4	50
1,3-Dichlorobenzene	0.0500	0.04851		mg/Kg		97	79 - 137	4	50
1,4-Dichlorobenzene	0.0500	0.04825		mg/Kg		97	77 - 139	4	50
1,1-Dichloroethane	0.0500	0.04926		mg/Kg		99	75 - 124	2	50
1,2-Dichloroethane	0.0500	0.04851		mg/Kg		97	65 - 134	3	50
1,1-Dichloroethene	0.0500	0.04904		mg/Kg		98	75 - 131	1	50
1,2-Dichloropropane	0.0500	0.04890		mg/Kg		98	69 - 120	1	50
1,3-Dichloropropane	0.0500	0.04710		mg/Kg		94	78 - 126	4	42
2,2-Dichloropropane	0.0500	0.04833		mg/Kg		97	68 - 145	2	50
1,1-Dichloropropene	0.0500	0.04916		mg/Kg		98	79 - 127	3	50
Ethylbenzene	0.0500	0.04777		mg/Kg		96	80 - 134	3	50
Hexachlorobutadiene	0.0500	0.04852		mg/Kg		97	65 - 148	5	50
2-Hexanone	0.250	0.2519		mg/Kg		101	57 - 148	1	50
Iodomethane	0.0500	0.05484		mg/Kg		110	57 - 150	2	50
Isopropylbenzene	0.0500	0.04774		mg/Kg		95	80 - 150	4	50
Methylene bromide	0.0500	0.04878		mg/Kg		98	71 - 130	1	50

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

Lab Sample ID: LCSD 490-112962/4
Matrix: Solid
Analysis Batch: 112962

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			0.0500	0.04846		mg/Kg		97	68 - 144	1	50
4-Methyl-2-pentanone (MIBK)			0.250	0.2422		mg/Kg		97	59 - 138	3	50
Methyl tert butyl ether			0.0500	0.04730		mg/Kg		95	70 - 136	1	50
m,p-Xylene			0.0500	0.04772		mg/Kg		95	80 - 137	4	50
Naphthalene			0.0500	0.05135		mg/Kg		103	69 - 150	1	50
n-Butylbenzene			0.0500	0.04981		mg/Kg		100	72 - 152	6	50
N-Propylbenzene			0.0500	0.04889		mg/Kg		98	75 - 137	4	50
o-Chlorotoluene			0.0500	0.04781		mg/Kg		96	78 - 132	3	50
o-Xylene			0.0500	0.04746		mg/Kg		95	80 - 141	3	50
p-Chlorotoluene			0.0500	0.04897		mg/Kg		98	77 - 138	2	50
p-Isopropyltoluene			0.0500	0.04887		mg/Kg		98	77 - 141	3	50
sec-Butylbenzene			0.0500	0.04862		mg/Kg		97	79 - 141	3	50
Styrene			0.0500	0.04941		mg/Kg		99	82 - 137	4	50
tert-Butylbenzene			0.0500	0.04787		mg/Kg		96	80 - 132	2	50
1,1,1,2-Tetrachloroethane			0.0500	0.04773		mg/Kg		95	80 - 136	2	50
1,1,2,2-Tetrachloroethane			0.0500	0.05421		mg/Kg		108	66 - 134	1	50
Tetrachloroethene			0.0500	0.04880		mg/Kg		98	78 - 140	5	50
Toluene			0.0500	0.04708		mg/Kg		94	80 - 132	4	50
trans-1,2-Dichloroethene			0.0500	0.04935		mg/Kg		99	76 - 128	2	50
trans-1,3-Dichloropropene			0.0500	0.04943		mg/Kg		99	62 - 139	3	50
1,2,3-Trichlorobenzene			0.0500	0.04922		mg/Kg		98	70 - 150	5	50
1,2,4-Trichlorobenzene			0.0500	0.05060		mg/Kg		101	62 - 150	7	50
1,1,1-Trichloroethane			0.0500	0.04912		mg/Kg		98	72 - 140	1	50
1,1,2-Trichloroethane			0.0500	0.04781		mg/Kg		96	78 - 128	2	50
Trichloroethene			0.0500	0.04660		mg/Kg		93	77 - 127	3	50
1,2,3-Trichloropropane			0.0500	0.04894		mg/Kg		98	65 - 139	0	50
1,2,4-Trimethylbenzene			0.0500	0.04870		mg/Kg		97	77 - 139	2	50
1,3,5-Trimethylbenzene			0.0500	0.04885		mg/Kg		98	78 - 138	2	50
Vinyl acetate			0.100	0.1216		mg/Kg		122	23 - 150	14	50
Xylenes (total)			0.100	0.09519		mg/Kg		95	80 - 137	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 490-113259/6
Matrix: Solid
Analysis Batch: 113259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50		mg/Kg			10/10/13 11:58	1
Benzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Bromobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Bromochloromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
Bromodichloromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
Bromoform	ND		0.100		mg/Kg			10/10/13 11:58	1

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

Lab Sample ID: MB 490-113259/6
Matrix: Solid
Analysis Batch: 113259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.100		mg/Kg			10/10/13 11:58	1
2-Butanone (MEK)	ND		2.50		mg/Kg			10/10/13 11:58	1
Carbon disulfide	ND		0.250		mg/Kg			10/10/13 11:58	1
Carbon tetrachloride	ND		0.100		mg/Kg			10/10/13 11:58	1
Chlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Chloroethane	ND		0.250		mg/Kg			10/10/13 11:58	1
Chloroform	ND		0.100		mg/Kg			10/10/13 11:58	1
Chloromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
cis-1,2-Dichloroethene	ND		0.100		mg/Kg			10/10/13 11:58	1
cis-1,3-Dichloropropene	ND		0.100		mg/Kg			10/10/13 11:58	1
Dibromochloromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2-Dibromo-3-Chloropropane	ND		0.250		mg/Kg			10/10/13 11:58	1
1,2-Dibromoethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2-Dichlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,3-Dichlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,4-Dichlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Dichlorodifluoromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1-Dichloroethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2-Dichloroethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1-Dichloroethene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2-Dichloropropane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,3-Dichloropropane	ND		0.100		mg/Kg			10/10/13 11:58	1
2,2-Dichloropropane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1-Dichloropropene	ND		0.100		mg/Kg			10/10/13 11:58	1
Ethylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Hexachlorobutadiene	ND		0.250		mg/Kg			10/10/13 11:58	1
2-Hexanone	ND		2.50		mg/Kg			10/10/13 11:58	1
Iodomethane	ND		1.00		mg/Kg			10/10/13 11:58	1
Isopropylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Methylene bromide	ND		0.100		mg/Kg			10/10/13 11:58	1
Methylene Chloride	ND		0.500		mg/Kg			10/10/13 11:58	1
4-Methyl-2-pentanone (MIBK)	ND		2.50		mg/Kg			10/10/13 11:58	1
Methyl tert butyl ether	ND		0.100		mg/Kg			10/10/13 11:58	1
m,p-Xylene	ND		0.150		mg/Kg			10/10/13 11:58	1
Naphthalene	ND		0.250		mg/Kg			10/10/13 11:58	1
n-Butylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
N-Propylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
o-Chlorotoluene	ND		0.100		mg/Kg			10/10/13 11:58	1
o-Xylene	ND		0.100		mg/Kg			10/10/13 11:58	1
p-Chlorotoluene	ND		0.100		mg/Kg			10/10/13 11:58	1
p-Isopropyltoluene	ND		0.100		mg/Kg			10/10/13 11:58	1
sec-Butylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Styrene	ND		0.100		mg/Kg			10/10/13 11:58	1
tert-Butylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1,1,2-Tetrachloroethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1,2,2-Tetrachloroethane	ND		0.100		mg/Kg			10/10/13 11:58	1
Tetrachloroethene	ND		0.100		mg/Kg			10/10/13 11:58	1
Toluene	ND		0.100		mg/Kg			10/10/13 11:58	1

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

Lab Sample ID: MB 490-113259/6
Matrix: Solid
Analysis Batch: 113259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.100		mg/Kg			10/10/13 11:58	1
trans-1,3-Dichloropropene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2,3-Trichlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2,4-Trichlorobenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1,1-Trichloroethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,1,2-Trichloroethane	ND		0.250		mg/Kg			10/10/13 11:58	1
Trichloroethene	ND		0.100		mg/Kg			10/10/13 11:58	1
Trichlorofluoromethane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2,3-Trichloropropane	ND		0.100		mg/Kg			10/10/13 11:58	1
1,2,4-Trimethylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
1,3,5-Trimethylbenzene	ND		0.100		mg/Kg			10/10/13 11:58	1
Vinyl acetate	ND		1.00		mg/Kg			10/10/13 11:58	1
Vinyl chloride	ND		0.100		mg/Kg			10/10/13 11:58	1
Xylenes (total)	ND		0.250		mg/Kg			10/10/13 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/10/13 11:58*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/10/13 11:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*10/10/13 11:58*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/13 11:58*	*1*

Lab Sample ID: MB 490-113259/7
Matrix: Solid
Analysis Batch: 113259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500		mg/Kg			10/10/13 12:25	1
Benzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Bromobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Bromochloromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
Bromodichloromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
Bromoform	ND		0.00200		mg/Kg			10/10/13 12:25	1
Bromomethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			10/10/13 12:25	1
Carbon disulfide	ND		0.00500		mg/Kg			10/10/13 12:25	1
Carbon tetrachloride	ND		0.00200		mg/Kg			10/10/13 12:25	1
Chlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Chloroethane	ND		0.00500		mg/Kg			10/10/13 12:25	1
Chloroform	ND		0.00200		mg/Kg			10/10/13 12:25	1
Chloromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/10/13 12:25	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Dibromochloromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			10/10/13 12:25	1
1,2-Dibromoethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1

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

Lab Sample ID: MB 490-113259/7
Matrix: Solid
Analysis Batch: 113259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			10/10/13 12:25	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Ethylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			10/10/13 12:25	1
2-Hexanone	ND		0.0500		mg/Kg			10/10/13 12:25	1
Iodomethane	ND		0.0200		mg/Kg			10/10/13 12:25	1
Isopropylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Methylene bromide	ND		0.00200		mg/Kg			10/10/13 12:25	1
Methylene Chloride	ND		0.0100		mg/Kg			10/10/13 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			10/10/13 12:25	1
Methyl tert butyl ether	ND		0.00200		mg/Kg			10/10/13 12:25	1
m,p-Xylene	ND		0.00300		mg/Kg			10/10/13 12:25	1
Naphthalene	ND		0.00500		mg/Kg			10/10/13 12:25	1
n-Butylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
N-Propylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
o-Chlorotoluene	ND		0.00200		mg/Kg			10/10/13 12:25	1
o-Xylene	ND		0.00200		mg/Kg			10/10/13 12:25	1
p-Chlorotoluene	ND		0.00200		mg/Kg			10/10/13 12:25	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			10/10/13 12:25	1
sec-Butylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Styrene	ND		0.00200		mg/Kg			10/10/13 12:25	1
tert-Butylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
Tetrachloroethene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Toluene	ND		0.00200		mg/Kg			10/10/13 12:25	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/10/13 12:25	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			10/10/13 12:25	1
Trichloroethene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			10/10/13 12:25	1
Vinyl acetate	ND		0.0200		mg/Kg			10/10/13 12:25	1
Vinyl chloride	ND		0.00200		mg/Kg			10/10/13 12:25	1
Xylenes (total)	ND		0.00500		mg/Kg			10/10/13 12:25	1

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

Lab Sample ID: MB 490-113259/7
Matrix: Solid
Analysis Batch: 113259

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		10/10/13 12:25	1
Dibromofluoromethane (Surr)	105		70 - 130		10/10/13 12:25	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		10/10/13 12:25	1
Toluene-d8 (Surr)	98		70 - 130		10/10/13 12:25	1

Lab Sample ID: LCS 490-113259/3
Matrix: Solid
Analysis Batch: 113259

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2599		mg/Kg		104	51 - 149
Benzene	0.0500	0.05213		mg/Kg		104	75 - 127
Bromobenzene	0.0500	0.05180		mg/Kg		104	75 - 130
Bromochloromethane	0.0500	0.05516		mg/Kg		110	70 - 132
Bromodichloromethane	0.0500	0.05347		mg/Kg		107	68 - 135
Bromoform	0.0500	0.05042		mg/Kg		101	36 - 150
Bromomethane	0.0500	0.06774		mg/Kg		135	43 - 142
2-Butanone (MEK)	0.250	0.2764		mg/Kg		111	61 - 132
Carbon disulfide	0.0500	0.05067		mg/Kg		101	74 - 135
Carbon tetrachloride	0.0500	0.05104		mg/Kg		102	70 - 141
Chlorobenzene	0.0500	0.05115		mg/Kg		102	84 - 125
Chloroethane	0.0500	0.05643		mg/Kg		113	53 - 144
Chloroform	0.0500	0.05172		mg/Kg		103	76 - 130
Chloromethane	0.0500	0.05719		mg/Kg		114	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05400		mg/Kg		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05501		mg/Kg		110	73 - 148
Dibromochloromethane	0.0500	0.05529		mg/Kg		111	66 - 134
1,2-Dibromo-3-Chloropropane	0.0500	0.05280		mg/Kg		106	49 - 142
1,2-Dibromoethane	0.0500	0.05511		mg/Kg		110	80 - 135
1,2-Dichlorobenzene	0.0500	0.05181		mg/Kg		104	80 - 134
1,3-Dichlorobenzene	0.0500	0.05158		mg/Kg		103	79 - 137
1,4-Dichlorobenzene	0.0500	0.05180		mg/Kg		104	77 - 139
Dichlorodifluoromethane	0.0500	0.05860		mg/Kg		117	12 - 144
1,1-Dichloroethane	0.0500	0.05342		mg/Kg		107	75 - 124
1,2-Dichloroethane	0.0500	0.05306		mg/Kg		106	65 - 134
1,1-Dichloroethene	0.0500	0.05054		mg/Kg		101	75 - 131
1,2-Dichloropropane	0.0500	0.05189		mg/Kg		104	69 - 120
1,3-Dichloropropane	0.0500	0.05277		mg/Kg		106	78 - 126
2,2-Dichloropropane	0.0500	0.05126		mg/Kg		103	68 - 145
1,1-Dichloropropene	0.0500	0.05065		mg/Kg		101	79 - 127
Ethylbenzene	0.0500	0.05015		mg/Kg		100	80 - 134
Hexachlorobutadiene	0.0500	0.05089		mg/Kg		102	65 - 148
2-Hexanone	0.250	0.2928		mg/Kg		117	57 - 148
Iodomethane	0.0500	0.05956		mg/Kg		119	57 - 150
Isopropylbenzene	0.0500	0.05002		mg/Kg		100	80 - 150
Methylene bromide	0.0500	0.05555		mg/Kg		111	71 - 130
Methylene Chloride	0.0500	0.05228		mg/Kg		105	68 - 144
4-Methyl-2-pentanone (MIBK)	0.250	0.2755		mg/Kg		110	59 - 138

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

Lab Sample ID: LCS 490-113259/3
Matrix: Solid
Analysis Batch: 113259

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	0.0500	0.05376		mg/Kg		108	70 - 136
m,p-Xylene	0.0500	0.05028		mg/Kg		101	80 - 137
Naphthalene	0.0500	0.05423		mg/Kg		108	69 - 150
n-Butylbenzene	0.0500	0.05157		mg/Kg		103	72 - 152
N-Propylbenzene	0.0500	0.05027		mg/Kg		101	75 - 137
o-Chlorotoluene	0.0500	0.05040		mg/Kg		101	78 - 132
o-Xylene	0.0500	0.05044		mg/Kg		101	80 - 141
p-Chlorotoluene	0.0500	0.05083		mg/Kg		102	77 - 138
p-Isopropyltoluene	0.0500	0.05051		mg/Kg		101	77 - 141
sec-Butylbenzene	0.0500	0.05004		mg/Kg		100	79 - 141
Styrene	0.0500	0.05338		mg/Kg		107	82 - 137
tert-Butylbenzene	0.0500	0.04979		mg/Kg		100	80 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.05267		mg/Kg		105	80 - 136
1,1,2,2-Tetrachloroethane	0.0500	0.06025		mg/Kg		121	66 - 134
Tetrachloroethene	0.0500	0.05068		mg/Kg		101	78 - 140
Toluene	0.0500	0.05020		mg/Kg		100	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05299		mg/Kg		106	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05653		mg/Kg		113	62 - 139
1,2,3-Trichlorobenzene	0.0500	0.05494		mg/Kg		110	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.05598		mg/Kg		112	62 - 150
1,1,1-Trichloroethane	0.0500	0.05109		mg/Kg		102	72 - 140
1,1,2-Trichloroethane	0.0500	0.05310		mg/Kg		106	78 - 128
Trichloroethene	0.0500	0.04924		mg/Kg		98	77 - 127
Trichlorofluoromethane	0.0500	0.05232		mg/Kg		105	50 - 140
1,2,3-Trichloropropane	0.0500	0.05503		mg/Kg		110	65 - 139
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/Kg		103	77 - 139
1,3,5-Trimethylbenzene	0.0500	0.05047		mg/Kg		101	78 - 138
Vinyl acetate	0.100	0.1442		mg/Kg		144	23 - 150
Vinyl chloride	0.0500	0.05636		mg/Kg		113	47 - 136
Xylenes (total)	0.100	0.1007		mg/Kg		101	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 490-113259/4
Matrix: Solid
Analysis Batch: 113259

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.2456		mg/Kg		98	51 - 149	6	50
Benzene	0.0500	0.05341		mg/Kg		107	75 - 127	2	50
Bromobenzene	0.0500	0.05066		mg/Kg		101	75 - 130	2	50
Bromochloromethane	0.0500	0.05472		mg/Kg		109	70 - 132	1	50
Bromodichloromethane	0.0500	0.05232		mg/Kg		105	68 - 135	2	50
Bromoform	0.0500	0.04867		mg/Kg		97	36 - 150	4	50

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

Lab Sample ID: LCSD 490-113259/4
Matrix: Solid
Analysis Batch: 113259

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.250	0.2590		mg/Kg		104	61 - 132	7	50
Carbon disulfide	0.0500	0.05231		mg/Kg		105	74 - 135	3	50
Carbon tetrachloride	0.0500	0.05300		mg/Kg		106	70 - 141	4	50
Chlorobenzene	0.0500	0.05161		mg/Kg		103	84 - 125	1	50
Chloroform	0.0500	0.05219		mg/Kg		104	76 - 130	1	49
cis-1,2-Dichloroethene	0.0500	0.05378		mg/Kg		108	75 - 125	0	50
cis-1,3-Dichloropropene	0.0500	0.05400		mg/Kg		108	73 - 148	2	50
Dibromochloromethane	0.0500	0.05434		mg/Kg		109	66 - 134	2	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04930		mg/Kg		99	49 - 142	7	50
1,2-Dibromoethane	0.0500	0.05236		mg/Kg		105	80 - 135	5	50
1,2-Dichlorobenzene	0.0500	0.05170		mg/Kg		103	80 - 134	0	50
1,3-Dichlorobenzene	0.0500	0.05220		mg/Kg		104	79 - 137	1	50
1,4-Dichlorobenzene	0.0500	0.05251		mg/Kg		105	77 - 139	1	50
1,1-Dichloroethane	0.0500	0.05270		mg/Kg		105	75 - 124	1	50
1,2-Dichloroethane	0.0500	0.05261		mg/Kg		105	65 - 134	1	50
1,1-Dichloroethene	0.0500	0.05246		mg/Kg		105	75 - 131	4	50
1,2-Dichloropropane	0.0500	0.05292		mg/Kg		106	69 - 120	2	50
1,3-Dichloropropane	0.0500	0.05154		mg/Kg		103	78 - 126	2	42
2,2-Dichloropropane	0.0500	0.05338		mg/Kg		107	68 - 145	4	50
1,1-Dichloropropene	0.0500	0.05243		mg/Kg		105	79 - 127	3	50
Ethylbenzene	0.0500	0.05119		mg/Kg		102	80 - 134	2	50
Hexachlorobutadiene	0.0500	0.05186		mg/Kg		104	65 - 148	2	50
2-Hexanone	0.250	0.2785		mg/Kg		111	57 - 148	5	50
Iodomethane	0.0500	0.06242		mg/Kg		125	57 - 150	5	50
Isopropylbenzene	0.0500	0.05230		mg/Kg		105	80 - 150	4	50
Methylene bromide	0.0500	0.05389		mg/Kg		108	71 - 130	3	50
Methylene Chloride	0.0500	0.05140		mg/Kg		103	68 - 144	2	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2628		mg/Kg		105	59 - 138	5	50
Methyl tert butyl ether	0.0500	0.05176		mg/Kg		104	70 - 136	4	50
m,p-Xylene	0.0500	0.05110		mg/Kg		102	80 - 137	2	50
Naphthalene	0.0500	0.05333		mg/Kg		107	69 - 150	2	50
n-Butylbenzene	0.0500	0.05352		mg/Kg		107	72 - 152	4	50
N-Propylbenzene	0.0500	0.05168		mg/Kg		103	75 - 137	3	50
o-Chlorotoluene	0.0500	0.05187		mg/Kg		104	78 - 132	3	50
o-Xylene	0.0500	0.05204		mg/Kg		104	80 - 141	3	50
p-Chlorotoluene	0.0500	0.05238		mg/Kg		105	77 - 138	3	50
p-Isopropyltoluene	0.0500	0.05234		mg/Kg		105	77 - 141	4	50
sec-Butylbenzene	0.0500	0.05148		mg/Kg		103	79 - 141	3	50
Styrene	0.0500	0.05365		mg/Kg		107	82 - 137	1	50
tert-Butylbenzene	0.0500	0.05099		mg/Kg		102	80 - 132	2	50
1,1,1,2-Tetrachloroethane	0.0500	0.05178		mg/Kg		104	80 - 136	2	50
1,1,2,2-Tetrachloroethane	0.0500	0.05856		mg/Kg		117	66 - 134	3	50
Tetrachloroethene	0.0500	0.05177		mg/Kg		104	78 - 140	2	50
Toluene	0.0500	0.05099		mg/Kg		102	80 - 132	2	50
trans-1,2-Dichloroethene	0.0500	0.05306		mg/Kg		106	76 - 128	0	50
trans-1,3-Dichloropropene	0.0500	0.05613		mg/Kg		112	62 - 139	1	50
1,2,3-Trichlorobenzene	0.0500	0.05396		mg/Kg		108	70 - 150	2	50
1,2,4-Trichlorobenzene	0.0500	0.05444		mg/Kg		109	62 - 150	3	50

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

Lab Sample ID: LCSD 490-113259/4
Matrix: Solid
Analysis Batch: 113259

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0500	0.05211		mg/Kg		104	72 - 140	2	50
1,1,2-Trichloroethane			0.0500	0.05280		mg/Kg		106	78 - 128	1	50
Trichloroethene			0.0500	0.04985		mg/Kg		100	77 - 127	1	50
1,2,3-Trichloropropane			0.0500	0.05442		mg/Kg		109	65 - 139	1	50
1,2,4-Trimethylbenzene			0.0500	0.05184		mg/Kg		104	77 - 139	1	50
1,3,5-Trimethylbenzene			0.0500	0.05222		mg/Kg		104	78 - 138	3	50
Vinyl acetate			0.100	0.1315		mg/Kg		132	23 - 150	9	50
Xylenes (total)			0.100	0.1031		mg/Kg		103	80 - 137	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 490-113112/1-A
Matrix: Solid
Analysis Batch: 113488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Acenaphthylene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Anthracene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzidine	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzo(a)anthracene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzo(a)pyrene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzo(b)fluoranthene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzo(g,h,i)perylene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzoic acid	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzo(k)fluoranthene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Benzyl alcohol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Bis(2-chloroethoxy)methane	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Bis(2-chloroethyl)ether	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
bis (2-chloroisopropyl) ether	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Bis(2-ethylhexyl) phthalate	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Bromophenyl phenyl ether	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Butyl benzyl phthalate	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Carbazole	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Chloroaniline	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Chloro-3-methylphenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Chloronaphthalene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Chlorophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Chlorophenyl phenyl ether	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Chrysene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Dibenz(a,h)anthracene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Dibenzofuran	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

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

Lab Sample ID: MB 490-113112/1-A
Matrix: Solid
Analysis Batch: 113488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
1,3-Dichlorobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
1,4-Dichlorobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
3,3'-Dichlorobenzidine	ND		0.667		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4-Dichlorophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Diethyl phthalate	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4-Dimethylphenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Dimethyl phthalate	ND		1.67		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Di-n-butyl phthalate	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4,6-Dinitro-o-cresol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4-Dinitrophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4-Dinitrotoluene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,6-Dinitrotoluene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Di-n-octyl phthalate	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.330		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Fluoranthene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Fluorene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Hexachlorobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Hexachlorobutadiene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Hexachlorocyclopentadiene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Hexachloroethane	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Ideno(1,2,3-cd)pyrene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Isophorone	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
1-Methylnaphthalene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Methylnaphthalene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Methylphenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
3 & 4 Methylphenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Naphthalene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Nitroaniline	ND		0.833		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Nitroaniline	ND		0.833		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
3-Nitroaniline	ND		0.833		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Nitrobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2-Nitrophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
4-Nitrophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
N-Nitrosodimethylamine	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
N-Nitrosodi-n-propylamine	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Pentachlorophenol	ND		0.833		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Phenanthrene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Phenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Pyrene	ND		0.0670		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
Pyridine	ND		0.667		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
1,2,4-Trichlorobenzene	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4,6-Trichlorophenol	ND		0.333		mg/Kg		10/09/13 14:10	10/10/13 18:55	1
2,4,5-Trichlorophenol	ND		0.833		mg/Kg		10/09/13 14:10	10/10/13 18:55	1

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

Lab Sample ID: MB 490-113112/1-A
Matrix: Solid
Analysis Batch: 113488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113112

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		29 - 120	10/09/13 14:10	10/10/13 18:55	1
2-Fluorophenol (Surr)	66		10 - 120	10/09/13 14:10	10/10/13 18:55	1
Nitrobenzene-d5 (Surr)	77		27 - 120	10/09/13 14:10	10/10/13 18:55	1
Phenol-d5 (Surr)	76		10 - 120	10/09/13 14:10	10/10/13 18:55	1
Terphenyl-d14 (Surr)	83		13 - 120	10/09/13 14:10	10/10/13 18:55	1
2,4,6-Tribromophenol (Surr)	52		10 - 120	10/09/13 14:10	10/10/13 18:55	1

Lab Sample ID: LCS 490-113112/2-A
Matrix: Solid
Analysis Batch: 113488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.266		mg/Kg		76	36 - 120
Acenaphthylene	1.67	1.262		mg/Kg		76	38 - 120
Anthracene	1.67	1.291		mg/Kg		77	46 - 124
Benzidine	1.67	1.742		mg/Kg		105	5 - 150
Benzo(a)anthracene	1.67	1.308		mg/Kg		78	45 - 120
Benzo(a)pyrene	1.67	1.300		mg/Kg		78	45 - 120
Benzo(b)fluoranthene	1.67	1.284		mg/Kg		77	42 - 120
Benzo(g,h,i)perylene	1.67	1.344		mg/Kg		81	38 - 120
Benzoic acid	3.33	1.665		mg/Kg		50	10 - 150
Benzo(k)fluoranthene	1.67	1.263		mg/Kg		76	42 - 120
Benzyl alcohol	1.67	1.326		mg/Kg		80	43 - 131
Bis(2-chloroethoxy)methane	1.67	1.218		mg/Kg		73	32 - 120
Bis(2-chloroethyl)ether	1.67	1.247		mg/Kg		75	31 - 120
bis (2-chloroisopropyl) ether	1.67	1.067		mg/Kg		64	32 - 120
Bis(2-ethylhexyl) phthalate	1.67	1.257		mg/Kg		75	43 - 120
4-Bromophenyl phenyl ether	1.67	1.229		mg/Kg		74	40 - 120
Butyl benzyl phthalate	1.67	1.284		mg/Kg		77	43 - 133
Carbazole	1.67	1.335		mg/Kg		80	44 - 120
4-Chloroaniline	1.67	1.276		mg/Kg		77	35 - 120
4-Chloro-3-methylphenol	1.67	1.295		mg/Kg		78	38 - 120
2-Chloronaphthalene	1.67	1.228		mg/Kg		74	34 - 120
2-Chlorophenol	1.67	1.215		mg/Kg		73	32 - 120
4-Chlorophenyl phenyl ether	1.67	1.235		mg/Kg		74	42 - 120
Chrysene	1.67	1.371		mg/Kg		82	43 - 120
Dibenz(a,h)anthracene	1.67	1.345		mg/Kg		81	32 - 128
Dibenzofuran	1.67	1.247		mg/Kg		75	41 - 120
1,2-Dichlorobenzene	1.67	1.137		mg/Kg		68	33 - 120
1,3-Dichlorobenzene	1.67	1.132		mg/Kg		68	32 - 120
1,4-Dichlorobenzene	1.67	1.145		mg/Kg		69	32 - 120
3,3'-Dichlorobenzidine	1.67	1.533		mg/Kg		92	39 - 120
2,4-Dichlorophenol	1.67	1.229		mg/Kg		74	32 - 120
Diethyl phthalate	1.67	1.249		mg/Kg		75	41 - 122
2,4-Dimethylphenol	1.67	1.227		mg/Kg		74	32 - 120
Dimethyl phthalate	1.67	ND		mg/Kg		75	55 - 120
Di-n-butyl phthalate	1.67	1.244		mg/Kg		75	46 - 127
4,6-Dinitro-o-cresol	3.33	2.764		mg/Kg		83	27 - 134

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

Lab Sample ID: LCS 490-113112/2-A
Matrix: Solid
Analysis Batch: 113488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	3.33	2.334		mg/Kg		70	23 - 142
2,4-Dinitrotoluene	1.67	1.387		mg/Kg		83	43 - 120
2,6-Dinitrotoluene	1.67	1.426		mg/Kg		86	43 - 120
Di-n-octyl phthalate	1.67	1.216		mg/Kg		73	40 - 130
1,2-Diphenylhydrazine (as Azobenzene)	1.67	1.354		mg/Kg		81	10 - 150
Fluoranthene	1.67	1.340		mg/Kg		80	46 - 120
Fluorene	1.67	1.296		mg/Kg		78	42 - 120
Hexachlorobenzene	1.67	1.247		mg/Kg		75	44 - 120
Hexachlorobutadiene	1.67	1.062		mg/Kg		64	31 - 120
Hexachlorocyclopentadiene	1.67	0.7266		mg/Kg		44	24 - 120
Hexachloroethane	1.67	1.118		mg/Kg		67	33 - 120
Ideno(1,2,3-cd)pyrene	1.67	1.299		mg/Kg		78	41 - 121
Isophorone	1.67	1.304		mg/Kg		78	33 - 120
1-Methylnaphthalene	1.67	1.185		mg/Kg		71	32 - 120
2-Methylnaphthalene	1.67	1.158		mg/Kg		70	28 - 120
2-Methylphenol	1.67	1.380		mg/Kg		83	36 - 120
3 & 4 Methylphenol	1.67	1.391		mg/Kg		83	37 - 120
Naphthalene	1.67	1.191		mg/Kg		71	32 - 120
4-Nitroaniline	1.67	1.519		mg/Kg		91	43 - 120
2-Nitroaniline	1.67	1.507		mg/Kg		90	40 - 120
3-Nitroaniline	1.67	1.410		mg/Kg		85	42 - 120
Nitrobenzene	1.67	1.287		mg/Kg		77	26 - 120
2-Nitrophenol	1.67	1.283		mg/Kg		77	29 - 120
4-Nitrophenol	3.33	2.707		mg/Kg		81	32 - 136
N-Nitrosodimethylamine	1.67	1.246		mg/Kg		75	10 - 150
N-Nitrosodi-n-propylamine	1.67	1.303		mg/Kg		78	35 - 120
n-Nitrosodiphenylamine(as diphenylamine)	1.67	1.219		mg/Kg		73	52 - 140
Pentachlorophenol	3.33	2.130		mg/Kg		64	44 - 134
Phenanthrene	1.67	1.273		mg/Kg		76	45 - 120
Phenol	1.67	1.289		mg/Kg		77	30 - 120
Pyrene	1.67	1.281		mg/Kg		77	43 - 120
Pyridine	1.67	1.296		mg/Kg		78	20 - 120
1,2,4-Trichlorobenzene	1.67	1.142		mg/Kg		69	29 - 120
2,4,6-Trichlorophenol	1.67	1.260		mg/Kg		76	39 - 120
2,4,5-Trichlorophenol	1.67	1.222		mg/Kg		73	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*68*		*29 - 120*
2-Fluorophenol (Surr)	*70*		*10 - 120*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*
Phenol-d5 (Surr)	*77*		*10 - 120*
Terphenyl-d14 (Surr)	*75*		*13 - 120*
2,4,6-Tribromophenol (Surr)	*76*		*10 - 120*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 490-113242/7
Matrix: Solid
Analysis Batch: 113242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.00		mg/Kg			10/10/13 00:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*84*		*50 - 150*		*10/10/13 00:51*	*1*

Lab Sample ID: LCS 490-113242/32
Matrix: Solid
Analysis Batch: 113242

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10			1.00	1.070		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*50 - 150*

Lab Sample ID: LCSD 490-113242/33
Matrix: Solid
Analysis Batch: 113242

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10			1.00	1.055		mg/Kg		105	70 - 130	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*50 - 150*

Method: 8015D - Diesel Range Orgnics (DRO) (GC)

Lab Sample ID: MB 490-113228/1-A
Matrix: Solid
Analysis Batch: 113317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		5.00		mg/Kg		10/10/13 07:22	10/10/13 21:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*10/10/13 07:22*	*10/10/13 21:58*	*1*

Lab Sample ID: LCS 490-113228/2-A
Matrix: Solid
Analysis Batch: 113317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			40.0	33.95		mg/Kg		85	54 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*94*		*50 - 150*

Method: 8015D - Diesel Range Orgnics (DRO) (GC) (Continued)

Lab Sample ID: 490-37208-A-1-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 113317 — **Prep Batch: 113228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	ND		39.7	34.65		mg/Kg		82	10 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Lab Sample ID: 490-37208-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 113317 — **Prep Batch: 113228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		38.8	32.01		mg/Kg		77	10 - 142	8	47

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*81*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-114970/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115266 — **Prep Batch: 114970**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.95		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Barium	ND		1.95		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Cadmium	ND		0.975		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Chromium	ND		0.975		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Lead	ND		0.975		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Selenium	ND		1.95		mg/Kg		10/17/13 08:39	10/17/13 17:02	1
Silver	ND		0.975		mg/Kg		10/17/13 08:39	10/17/13 17:02	1

Lab Sample ID: LCS 490-114970/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115266 — **Prep Batch: 114970**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.5	17.32		mg/Kg		89	80 - 120
Barium	781	772.3		mg/Kg		99	80 - 120
Cadmium	19.5	19.73		mg/Kg		101	80 - 120
Chromium	78.1	78.09		mg/Kg		100	80 - 120
Lead	19.5	20.10		mg/Kg		103	80 - 120
Selenium	19.5	17.68		mg/Kg		91	80 - 120
Silver	19.5	19.63		mg/Kg		101	80 - 120

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

Lab Sample ID: 490-37495-A-10-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115266 — **Prep Batch: 114970**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	66.0		26.4	90.19		mg/Kg	☼	92	75 - 125
Barium	16.4		1060	1097		mg/Kg	☼	102	75 - 125
Cadmium	8.86		26.4	41.45		mg/Kg	☼	123	75 - 125
Chromium	148		106	248.1		mg/Kg	☼	95	75 - 125
Lead	58.8		26.4	185.6	F	mg/Kg	☼	480	75 - 125
Selenium	ND		26.4	3.225	F	mg/Kg	☼	12	75 - 125
Silver	ND		26.4	19.03	F	mg/Kg	☼	72	75 - 125

Lab Sample ID: 490-37495-A-10-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115266 — **Prep Batch: 114970**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	66.0		26.4	94.31		mg/Kg	☼	107	75 - 125	4	20
Barium	16.4		1060	1009		mg/Kg	☼	94	75 - 125	8	20
Cadmium	8.86		26.4	33.06	F	mg/Kg	☼	92	75 - 125	23	20
Chromium	148		106	244.1		mg/Kg	☼	91	75 - 125	2	20
Lead	58.8		26.4	83.97	F	mg/Kg	☼	95	75 - 125	75	20
Selenium	ND		26.4	12.69	F	mg/Kg	☼	48	75 - 125	119	20
Silver	ND		26.4	23.77	F	mg/Kg	☼	90	75 - 125	22	20

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

Lab Sample ID: MB 490-114047/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 114448 — **Prep Batch: 114047**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0965		mg/Kg		10/14/13 07:43	10/15/13 09:16	1

Lab Sample ID: LCS 490-114047/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 114448 — **Prep Batch: 114047**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.163	0.1386		mg/Kg		85	80 - 120

Lab Sample ID: 490-37011-D-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 114448 — **Prep Batch: 114047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.181	0.1858		mg/Kg	☼	103	80 - 120

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

Lab Sample ID: 490-37011-D-1-E MSD
Matrix: Solid
Analysis Batch: 114448

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 114047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.178	0.1747		mg/Kg	☼	98	80 - 120	6	20

Method: Moisture - Percent Moisture

Lab Sample ID: 490-37217-A-2 DU
Matrix: Solid
Analysis Batch: 112857

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	86			88		%				2	20

GC/MS VOA

Prep Batch: 112838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	5035A	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	5035A	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	5035A	

Prep Batch: 112839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	5035A	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	5035A	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	5035A	
490-37212-4	Trip Blank	Total/NA	Soil	5035A	

Analysis Batch: 112962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-4	Trip Blank	Total/NA	Soil	8260C	112839
LCS 490-112962/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 490-112962/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 490-112962/7	Method Blank	Total/NA	Solid	8260C	

Analysis Batch: 113259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	8260C	112839
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	8260C	112838
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8260C	112839
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8260C	112838
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	8260C	112839
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	8260C	112838
LCS 490-113259/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 490-113259/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 490-113259/6	Method Blank	Total/NA	Solid	8260C	
MB 490-113259/7	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 113112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	3550C	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	3550C	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	3550C	
LCS 490-113112/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-113112/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 113488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	8270D	113112
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8270D	113112
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	8270D	113112
LCS 490-113112/2-A	Lab Control Sample	Total/NA	Solid	8270D	113112
MB 490-113112/1-A	Method Blank	Total/NA	Solid	8270D	113112

GC/MS Semi VOA (Continued)

Analysis Batch: 113745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8270D	113112

GC VOA

Prep Batch: 112838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	5035A	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	5035A	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	5035A	

Analysis Batch: 113242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	8015D	112838
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8015D	112838
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	8015D	112838
LCS 490-113242/32	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 490-113242/33	Lab Control Sample Dup	Total/NA	Solid	8015D	
MB 490-113242/7	Method Blank	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 113228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37208-A-1-F MS	Matrix Spike	Total/NA	Solid	3550C	
490-37208-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	3550C	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	3550C	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	3550C	
LCS 490-113228/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-113228/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 113317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37208-A-1-F MS	Matrix Spike	Total/NA	Solid	8015D	113228
490-37208-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	113228
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	8015D	113228
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	8015D	113228
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	8015D	113228
LCS 490-113228/2-A	Lab Control Sample	Total/NA	Solid	8015D	113228
MB 490-113228/1-A	Method Blank	Total/NA	Solid	8015D	113228

Metals

Prep Batch: 114047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37011-D-1-D MS	Matrix Spike	Total/NA	Solid	7471B	
490-37011-D-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	7471B	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	7471B	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	7471B	

Metals (Continued)

Prep Batch: 114047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-114047/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 490-114047/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 114448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37011-D-1-D MS	Matrix Spike	Total/NA	Solid	7471B	114047
490-37011-D-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	114047
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	7471B	114047
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	7471B	114047
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	7471B	114047
LCS 490-114047/2-A	Lab Control Sample	Total/NA	Solid	7471B	114047
MB 490-114047/1-A	Method Blank	Total/NA	Solid	7471B	114047

Prep Batch: 114970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	3051A	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	3051A	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	3051A	
490-37495-A-10-C MS	Matrix Spike	Total/NA	Solid	3051A	
490-37495-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3051A	
LCS 490-114970/2-A	Lab Control Sample	Total/NA	Solid	3051A	
MB 490-114970/1-A	Method Blank	Total/NA	Solid	3051A	

Analysis Batch: 115266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	6010C	114970
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	6010C	114970
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	6010C	114970
490-37495-A-10-C MS	Matrix Spike	Total/NA	Solid	6010C	114970
490-37495-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010C	114970
LCS 490-114970/2-A	Lab Control Sample	Total/NA	Solid	6010C	114970
MB 490-114970/1-A	Method Blank	Total/NA	Solid	6010C	114970

General Chemistry

Analysis Batch: 112857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37212-1	SRS-Area 2 / 4	Total/NA	Soil	Moisture	
490-37212-2	SRS-Area 1 / 6-7	Total/NA	Soil	Moisture	
490-37212-3	SRS-Area 1A / 7-8	Total/NA	Soil	Moisture	
490-37217-A-2 DU	Duplicate	Total/NA	Solid	Moisture	
490-37217-A-2 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-37217-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: SRS-Area 2 / 4

Lab Sample ID: 490-37212-1

Date Collected: 09/27/13 12:30

Matrix: Soil

Date Received: 10/08/13 08:30

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			112839	10/08/13 15:08	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 14:01	MJH	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 16:03	MJH	TAL NSH
Total/NA	Prep	3550C			113112	10/09/13 14:10	BJB	TAL NSH
Total/NA	Analysis	8270D		1	113488	10/10/13 20:27	KJP	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8015D		1	113242	10/10/13 03:44	AMC	TAL NSH
Total/NA	Prep	3550C			113228	10/10/13 07:22	BJB	TAL NSH
Total/NA	Analysis	8015D		1	113317	10/11/13 11:23	KKH	TAL NSH
Total/NA	Prep	7471B			114047	10/14/13 07:43	LTB	TAL NSH
Total/NA	Analysis	7471B		1	114448	10/15/13 10:03	LTB	TAL NSH
Total/NA	Prep	3051A			114970	10/17/13 08:39	DBK	TAL NSH
Total/NA	Analysis	6010C		1	115266	10/17/13 18:42	DEB	TAL NSH
Total/NA	Analysis	Moisture		1	112857	10/08/13 16:17	RRS	TAL NSH

Client Sample ID: SRS-Area 1 / 6-7

Lab Sample ID: 490-37212-2

Date Collected: 09/30/13 09:25

Matrix: Soil

Date Received: 10/08/13 08:30

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			112839	10/08/13 15:08	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 14:28	MJH	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 16:30	MJH	TAL NSH
Total/NA	Prep	3550C			113112	10/09/13 14:10	BJB	TAL NSH
Total/NA	Analysis	8270D		1	113488	10/10/13 20:49	KJP	TAL NSH
Total/NA	Analysis	8270D		5	113745	10/11/13 18:07	KJP	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8015D		1	113242	10/10/13 04:12	AMC	TAL NSH
Total/NA	Prep	3550C			113228	10/10/13 07:22	BJB	TAL NSH
Total/NA	Analysis	8015D		250	113317	10/11/13 12:46	KKH	TAL NSH
Total/NA	Prep	7471B			114047	10/14/13 07:43	LTB	TAL NSH
Total/NA	Analysis	7471B		1	114448	10/15/13 10:05	LTB	TAL NSH
Total/NA	Prep	3051A			114970	10/17/13 08:39	DBK	TAL NSH
Total/NA	Analysis	6010C		1	115266	10/17/13 18:47	DEB	TAL NSH
Total/NA	Analysis	Moisture		1	112857	10/08/13 16:17	RRS	TAL NSH

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Client Sample ID: SRS-Area 1A / 7-8

Lab Sample ID: 490-37212-3

Date Collected: 10/01/13 09:10
Matrix: Soil
Date Received: 10/08/13 08:30
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			112839	10/08/13 15:08	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 14:55	MJH	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8260C		1	113259	10/10/13 16:57	MJH	TAL NSH
Total/NA	Prep	3550C			113112	10/09/13 14:10	BJB	TAL NSH
Total/NA	Analysis	8270D		1	113488	10/10/13 21:12	KJP	TAL NSH
Total/NA	Prep	5035A			112838	10/08/13 15:05	JLP	TAL NSH
Total/NA	Analysis	8015D		20	113242	10/10/13 15:56	AMC	TAL NSH
Total/NA	Prep	3550C			113228	10/10/13 07:22	BJB	TAL NSH
Total/NA	Analysis	8015D		25	113317	10/11/13 01:31	KKH	TAL NSH
Total/NA	Prep	7471B			114047	10/14/13 07:43	LTB	TAL NSH
Total/NA	Analysis	7471B		1	114448	10/15/13 10:07	LTB	TAL NSH
Total/NA	Prep	3051A			114970	10/17/13 08:39	DBK	TAL NSH
Total/NA	Analysis	6010C		1	115266	10/17/13 18:52	DEB	TAL NSH
Total/NA	Analysis	Moisture		1	112857	10/08/13 16:17	RRS	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 490-37212-4

Date Collected: 10/01/13 00:01
Matrix: Soil
Date Received: 10/08/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			112839	10/08/13 15:08	JLP	TAL NSH
Total/NA	Analysis	8260C		1	112962	10/09/13 13:25	MJH	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL NSH
8015D	Diesel Range Orgnics (DRO) (GC)	SW846	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Roux Associates, Inc.
Project/Site: 301-351 Franklin Street, Olean, NY

TestAmerica Job ID: 490-37212-1

Laboratory: TestAmerica Nashville

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	11342	04-01-14

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

Analysis Method	Prep Method	Matrix	Analyte
8270D	3550C	Soil	1-Methylnaphthalene
8270D	3550C	Solid	1-Methylnaphthalene
Moisture		Soil	Percent Solids
Moisture		Solid	Percent Solids

Method 8015D - GRO

Nonhalogenated Organics using GC/FID - Modified (Gasoline Range Organics) by Method 8015D

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_067dat.d		
Lims ID:	490-37212-E-1-A	Client ID:	SRS-Area 2/4
Inject. Date:	10-Oct-2013 03:44:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-0026398-033 490-37275-D		
Misc. Info.:	490-0026398-033 490-37275-D		
Operator:	TAI.COM\NVLUST	Instrument ID:	HP61
Purge Vol:	5.000 mL	ALS Bottle#:	0
Lims Batch ID:	113242	Lims Sample ID:	13
Detector 1 :	IC dat-FID		
Detector 2 :	IC dat-PID		
Method:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\80158021HP61.m		
Last Update:	10-Oct-2013 11:33:03	Calib Date:	02-Oct-2013 09:57:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP61\20131002-26016.b\100213HP61_006dat.d		
Limit Group:	GCV 8015C_D GRO		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK037		

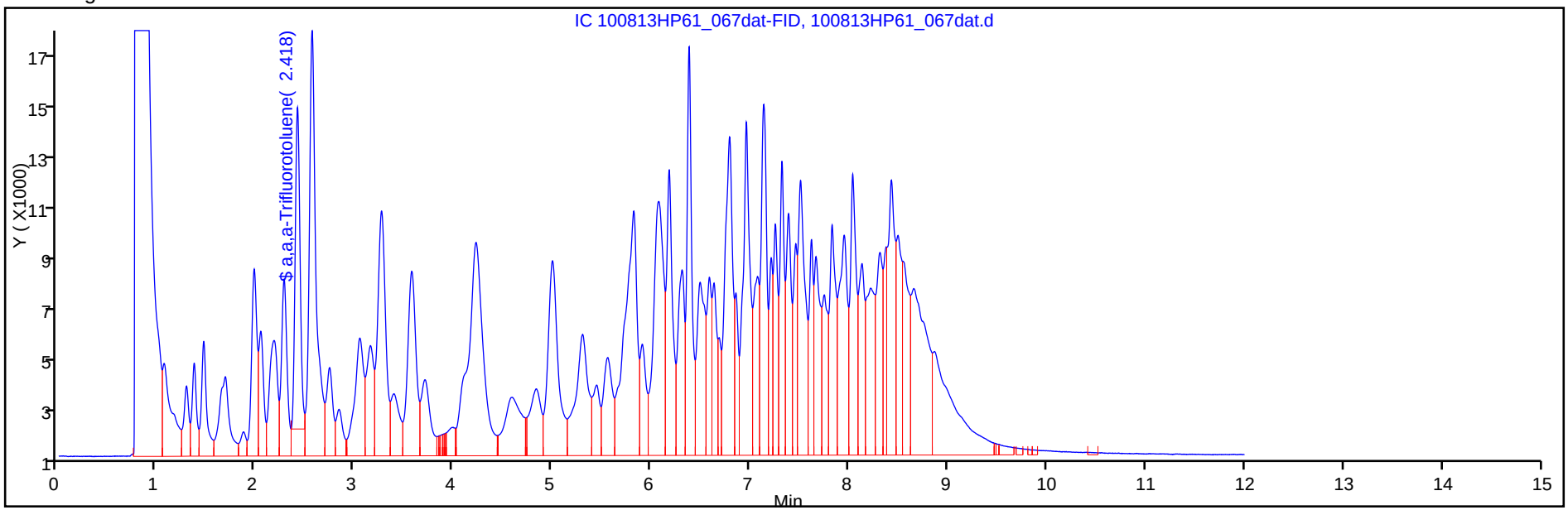
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 1 a,a,a-Trifluorotoluene						
2	2.417	2.412	0.005	26853	14.8	
1	2.418	2.413	0.005	42945	15.0	
A 15 C6-C10						
1	3.869	1.197 -	6.478	1039240	545.7	

Report Date: 10-Oct-2013 11:33:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

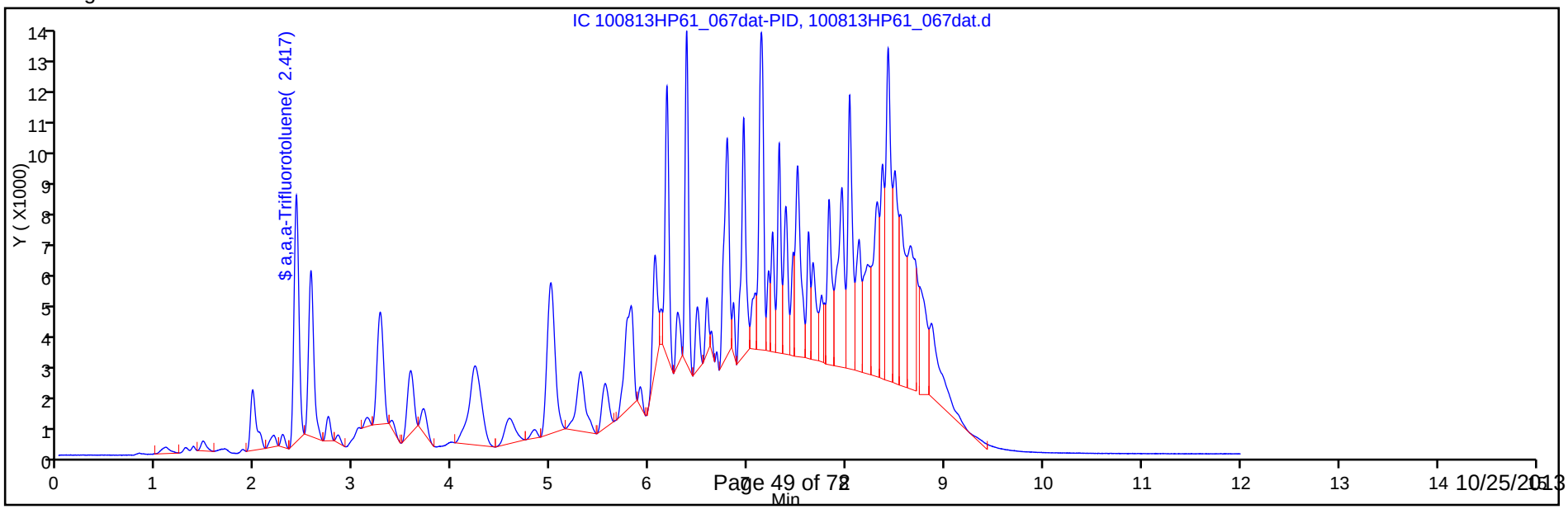
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_067dat.d		
Injection Date:	10-Oct-2013 03:44:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 2/4	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	13
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



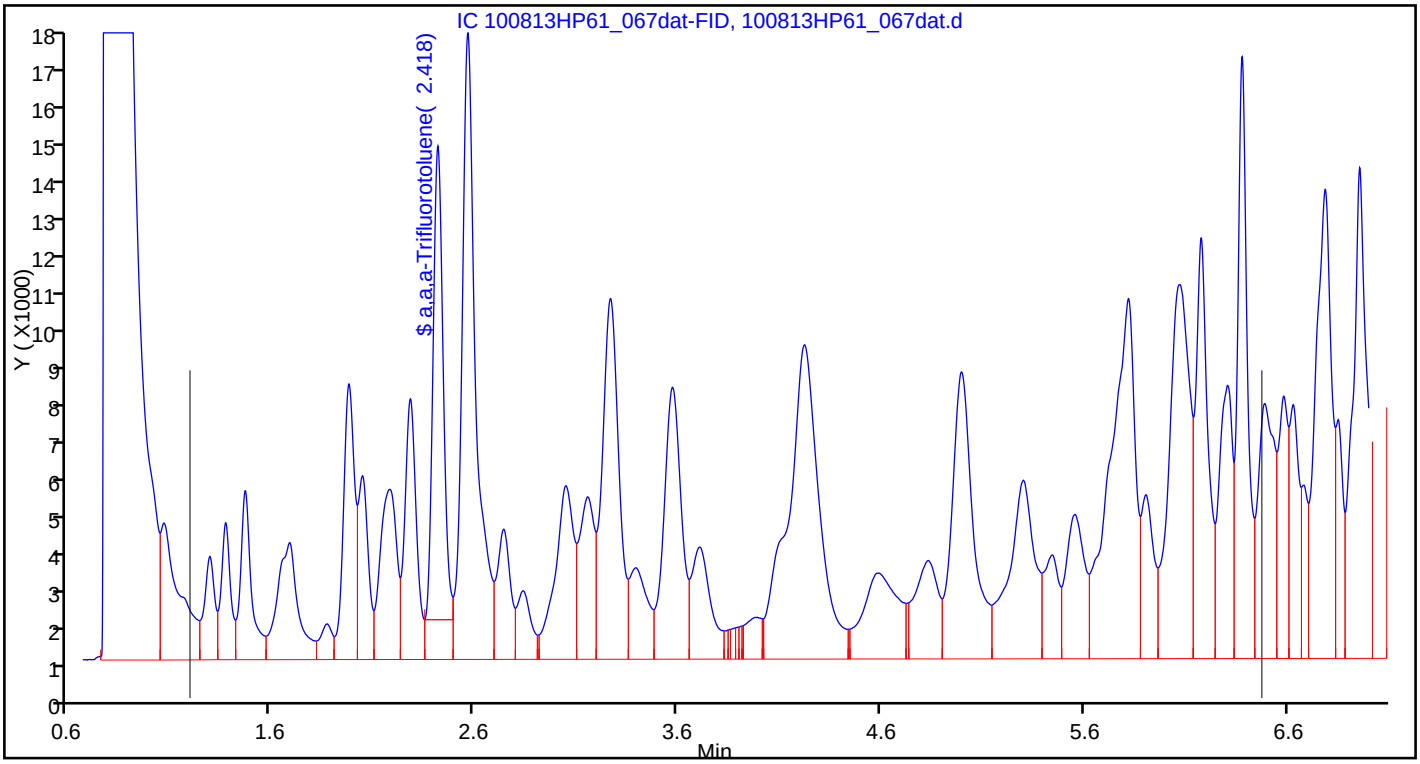
Report Date: 10-Oct-2013 11:33:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_067dat.d

Injection Date:	10-Oct-2013 03:44:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 2/4	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	13
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 15 C6-C10, Detector: 1, IC dat-FID



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_068dat.d		
Lims ID:	490-37212-E-2-A	Client ID:	SRS-Area 1/6-7
Inject. Date:	10-Oct-2013 04:12:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-0026398-034 490-37275-D		
Misc. Info.:	490-0026398-034 490-37275-D		
Operator:	TAI.COM\NVLUST	Instrument ID:	HP61
Purge Vol:	5.000 mL	ALS Bottle#:	0
Lims Batch ID:	113242	Lims Sample ID:	14
Detector 1 :	IC dat-FID		
Detector 2 :	IC dat-PID		
Method:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\80158021HP61.m		
Last Update:	10-Oct-2013 11:33:03	Calib Date:	02-Oct-2013 09:57:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP61\20131002-26016.b\100213HP61_006dat.d		
Limit Group:	GCV 8015C_D GRO		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK037		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 1 a,a,a-Trifluorotoluene						
2	2.417	2.412	0.005	27388	15.1	
1	2.418	2.413	0.005	43543	15.2	
A 15 C6-C10						
1	3.871	1.197 -	6.478	4193511	2289.6	

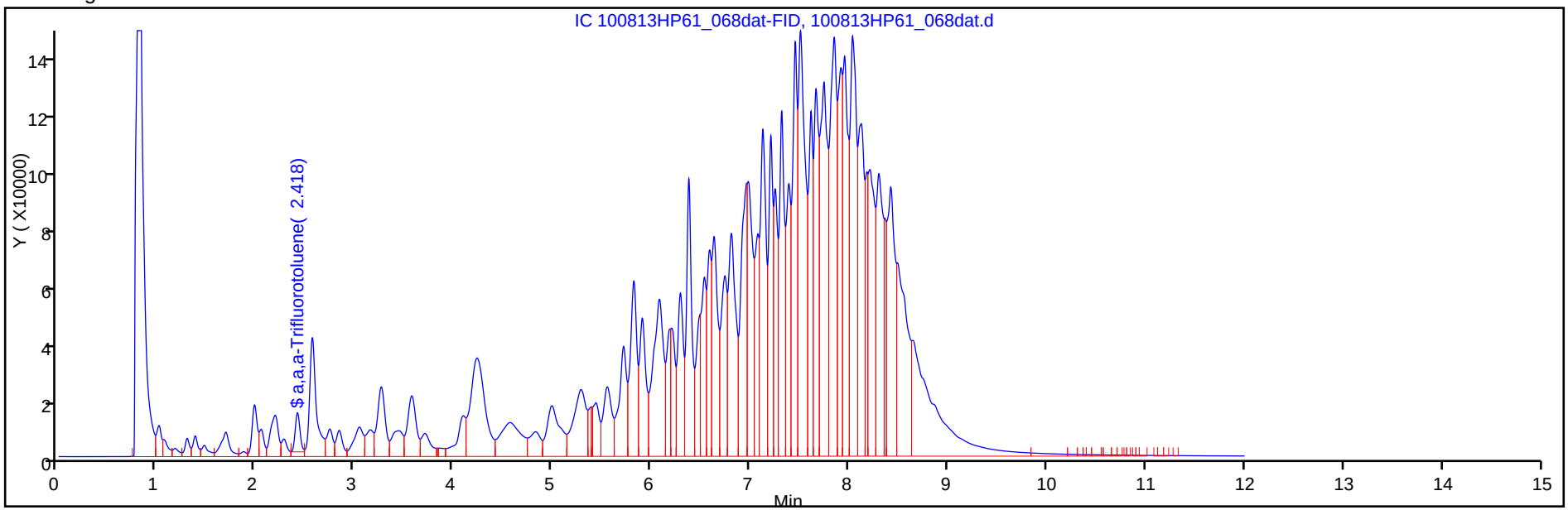
Report Date: 10-Oct-2013 11:33:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

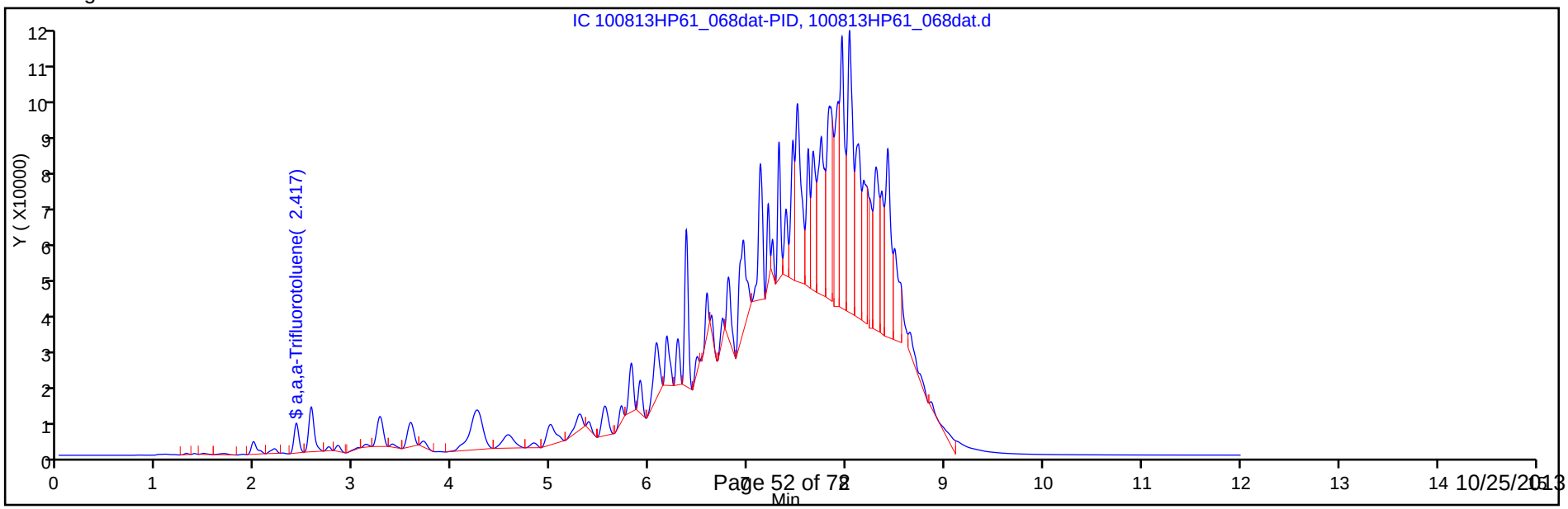
Data File: \\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_068dat.d

Injection Date:	10-Oct-2013 04:12:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 1/6-7	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	14
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



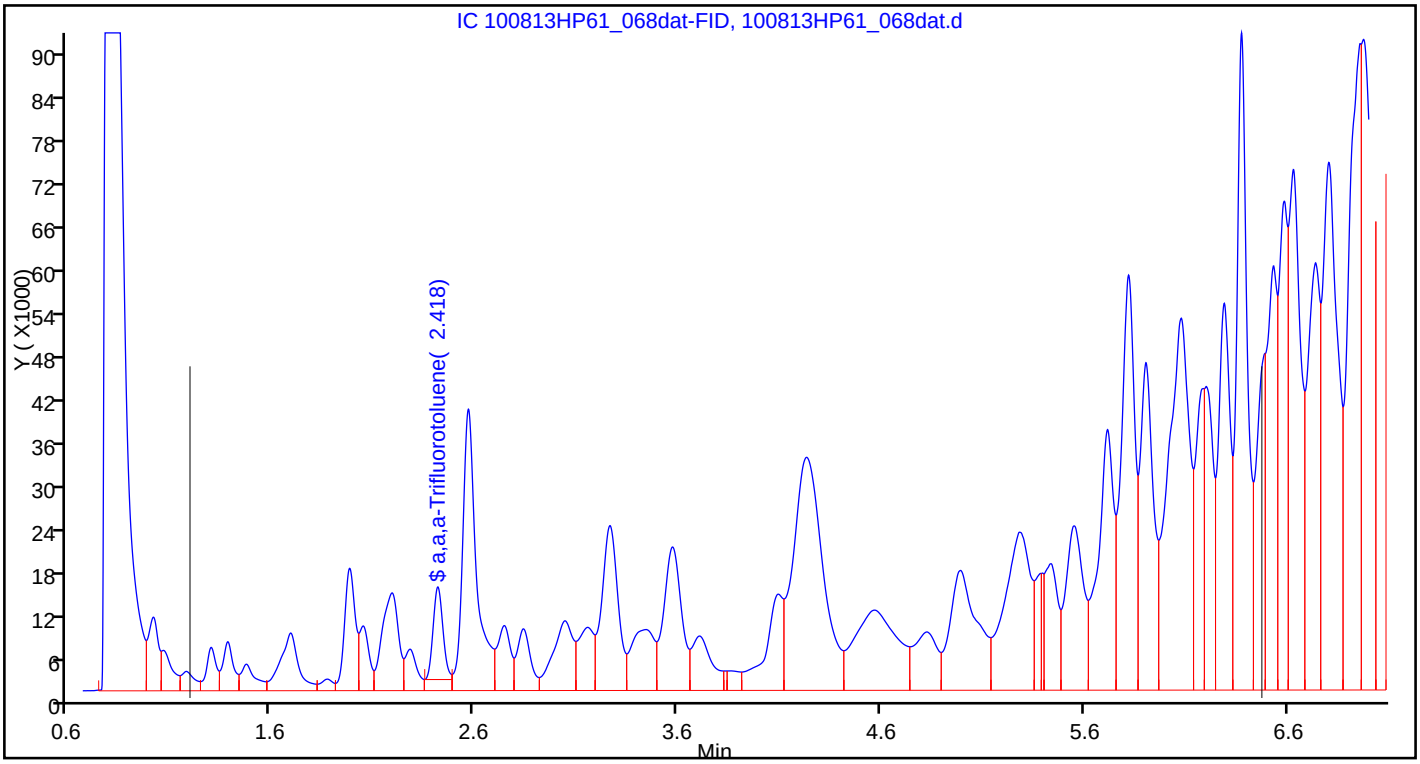
Report Date: 10-Oct-2013 11:33:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_068dat.d

Injection Date:	10-Oct-2013 04:12:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 1/6-7	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	14
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 15 C6-C10, Detector: 1, IC dat-FID



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_089dat.d		
Lims ID:	490-37212-E-3-A	Client ID:	SRS-Area 1A/7-8
Inject. Date:	10-Oct-2013 15:56:00	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	490-37212-E-2-A @1000		
Misc. Info.:	490-37212-E-2-A @1000		
Operator:	TAI.COM\NVLUST	Instrument ID:	HP61
Purge Vol:	5.000 mL	ALS Bottle#:	0
Lims Batch ID:	113242	Lims Sample ID:	30
Detector 1 :	IC dat-FID		
Detector 2 :	IC dat-PID		
Method:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\80158021HP61.m		
Last Update:	11-Oct-2013 07:56:04	Calib Date:	02-Oct-2013 09:57:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP61\20131002-26016.b\100213HP61_006dat.d		
Limit Group:	GCV 8015C_D GRO		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK028		

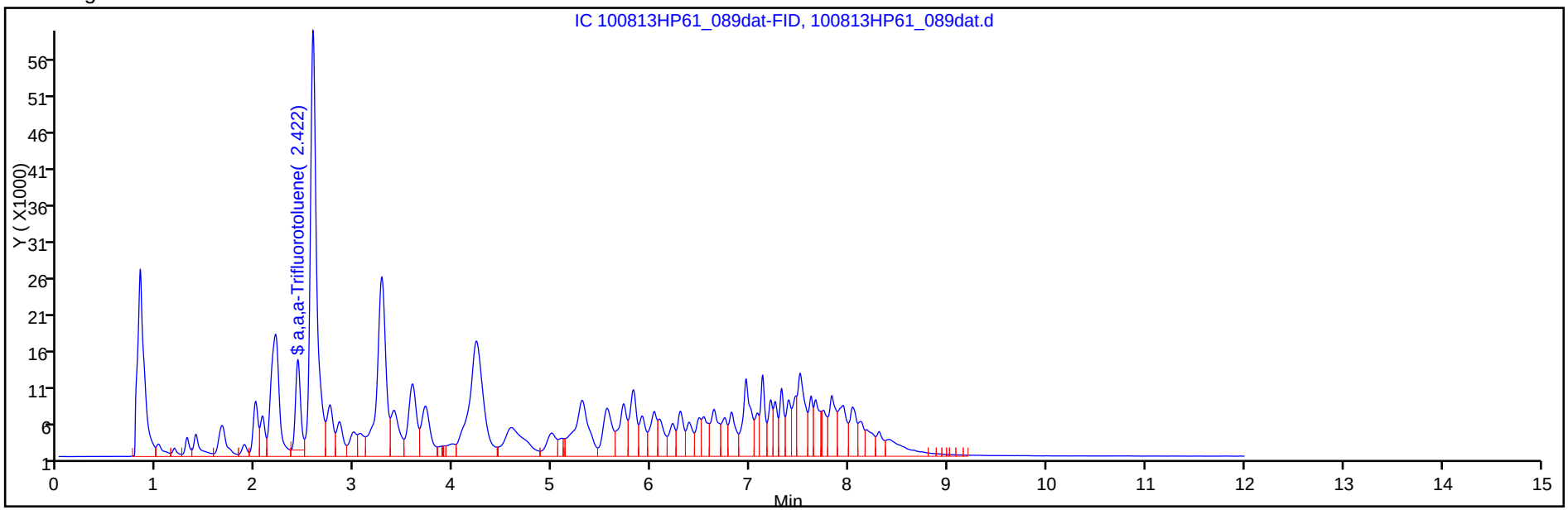
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
$ 1 a,a,a-Trifluorotoluene						
2	2.420	2.412	0.008	29561	16.2	
1	2.422	2.413	0.009	44203	15.5	
A 15 C6-C10						
1	3.870	1.272 -	6.483	1502071	801.6	

Report Date: 11-Oct-2013 07:56:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

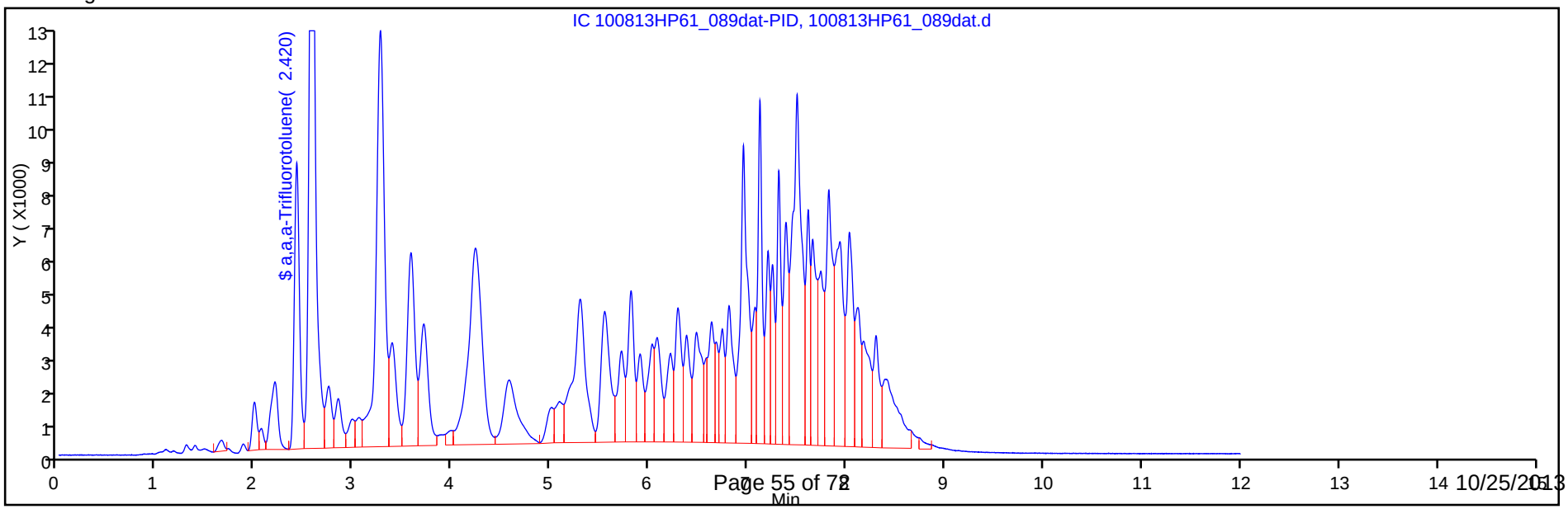
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_089dat.d		
Injection Date:	10-Oct-2013 15:56:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 1A/7-8	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	30
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



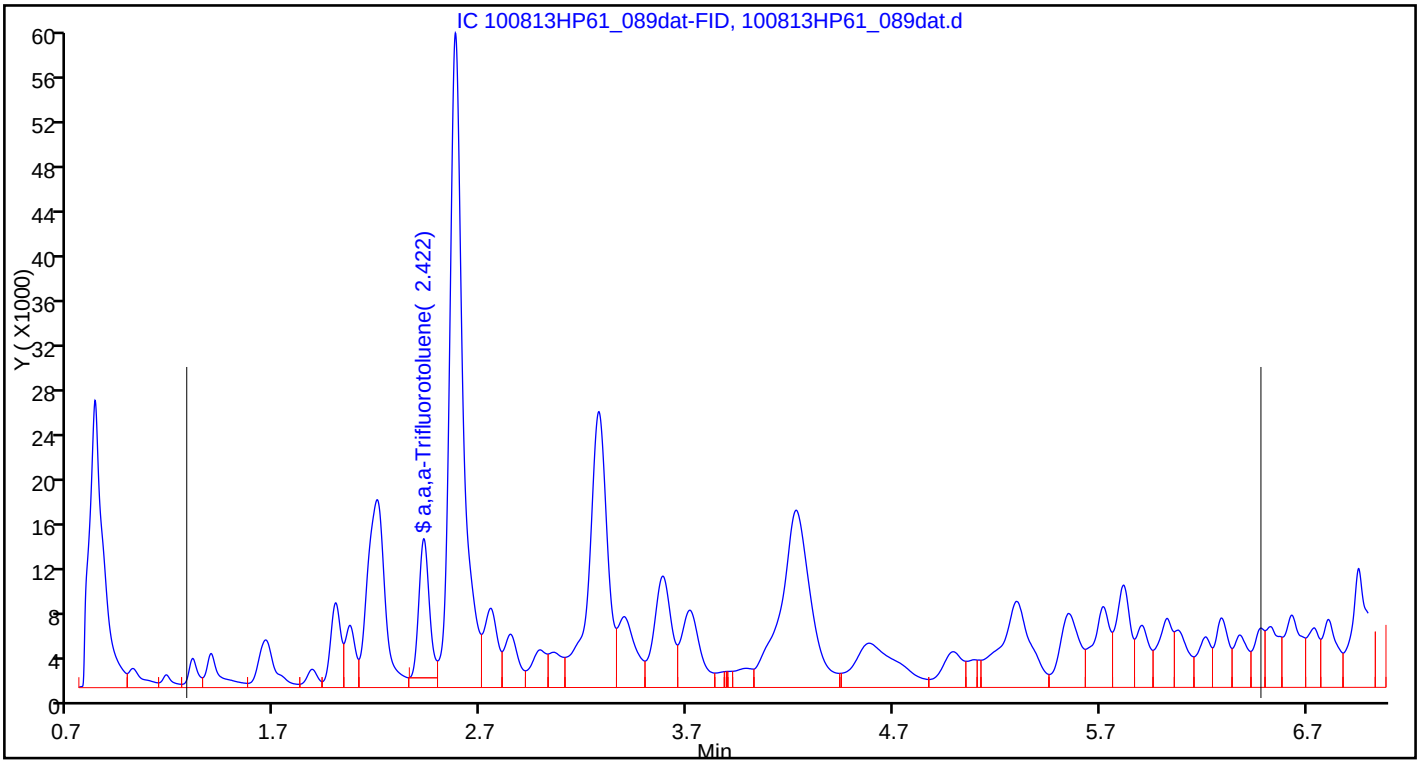
Report Date: 11-Oct-2013 07:56:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP61\20131010-26460.b\100813HP61_089dat.d

Injection Date:	10-Oct-2013 15:56:00	Limit Group:	GCV 8015C_D GRO
Client ID:	SRS-Area 1A/7-8	Instrument ID:	HP61
Lims Batch ID:	113242	Lims Sample ID:	30
Operator ID:	TAI.COM\NVLUST	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

A 15 C6-C10, Detector: 1, IC dat-FID



Method 8015D - DRO

Nonhalogenated Organics using GC/FID - Modified (Diesel Range Organics) by Method 8015D

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.091dat-FID.d		
Lims ID:	490-37212-F-1-A	Client ID:	SRS-Area 2/4
Inject. Date:	11-Oct-2013 11:23:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-0026481-091		
Misc. Info.:	490-0026481-091		
Operator:	TAI.COM\nvldro	Instrument ID:	HP44
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	113317	Lims Sample ID:	91
Detector:	IC 101013hp44.091dat-FID		
Method:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\8015B_DRO.m		
Last Update:	11-Oct-2013 12:50:04	Calib Date:	04-Oct-2013 16:08:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP44\20131004-26185.b\100413hp44.020dat-FID.d		
Limit Group:	GC 8015C_D DRO ICAL		
Integrator:	Falcon		
Column Type:	ZB-1	Column Dia:	0.53 mm
Process Host:	XAWRK036		

First Level Reviewer: lawj Date: 11-Oct-2013 11:35:58

RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 31 C10-C28					M
3.562	1.232 -	5.893	33639707	3961.1	M
$ 20 o-Terphenyl					
3.861	3.858	0.003	96995	9.58	

QC Flag Legend

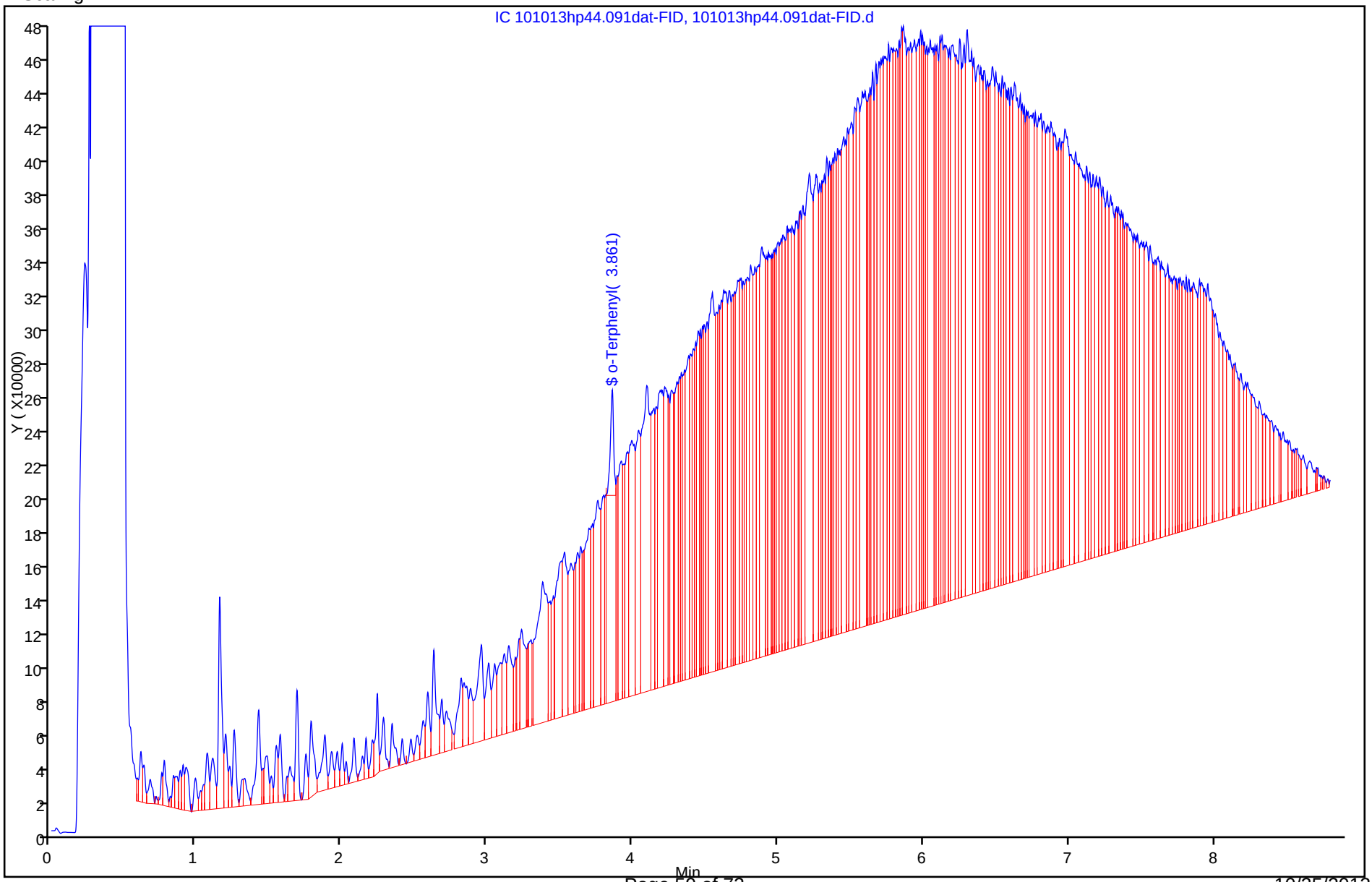
Review Flags
M - Manually Integrated

Report Date: 11-Oct-2013 12:50:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.091dat-FID.d		
Injection Date:	11-Oct-2013 11:23:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 2/4	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	91
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

Y Scaling:



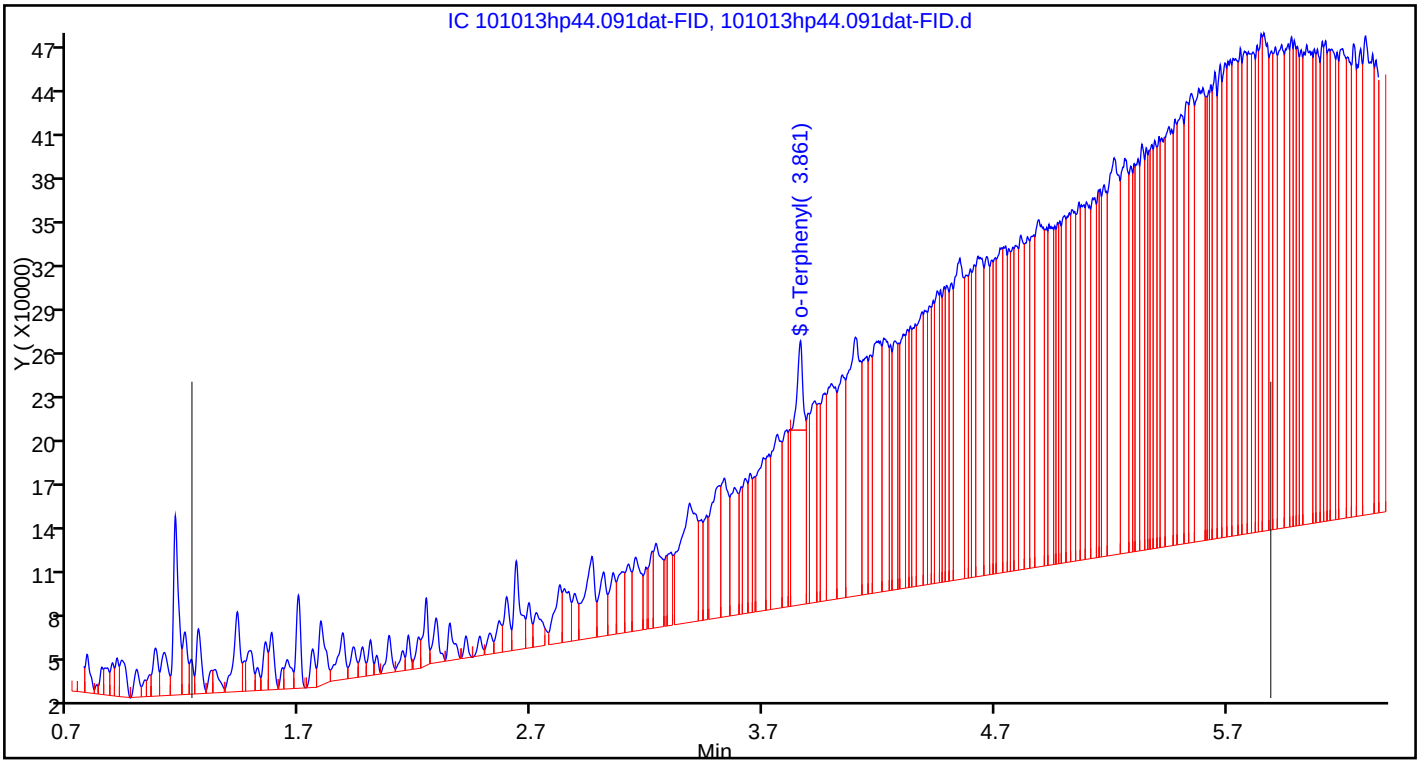
Report Date: 11-Oct-2013 12:50:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.091dat-FID.d

Injection Date:	11-Oct-2013 11:23:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 2/4	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	91
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Detector: 1, IC dat-FID



Manual Integration/User Assign Peak Report

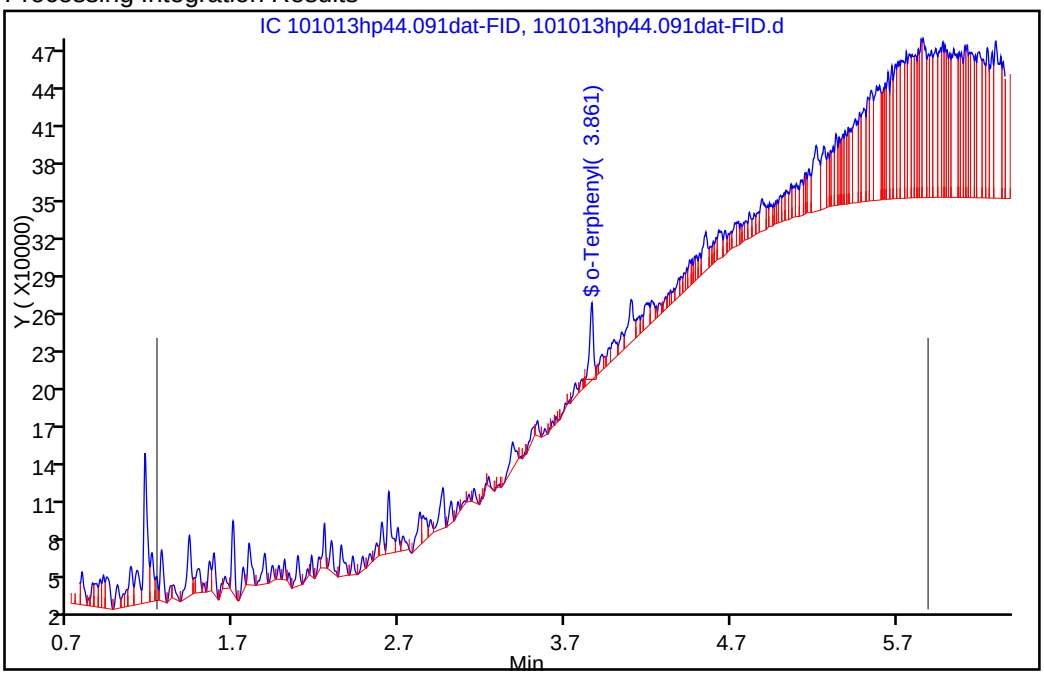
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.091dat-FID.d		
Injection Date:	11-Oct-2013 11:23:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 2/4	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	91
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Signal: 1, Type: quant, RT: 3.56

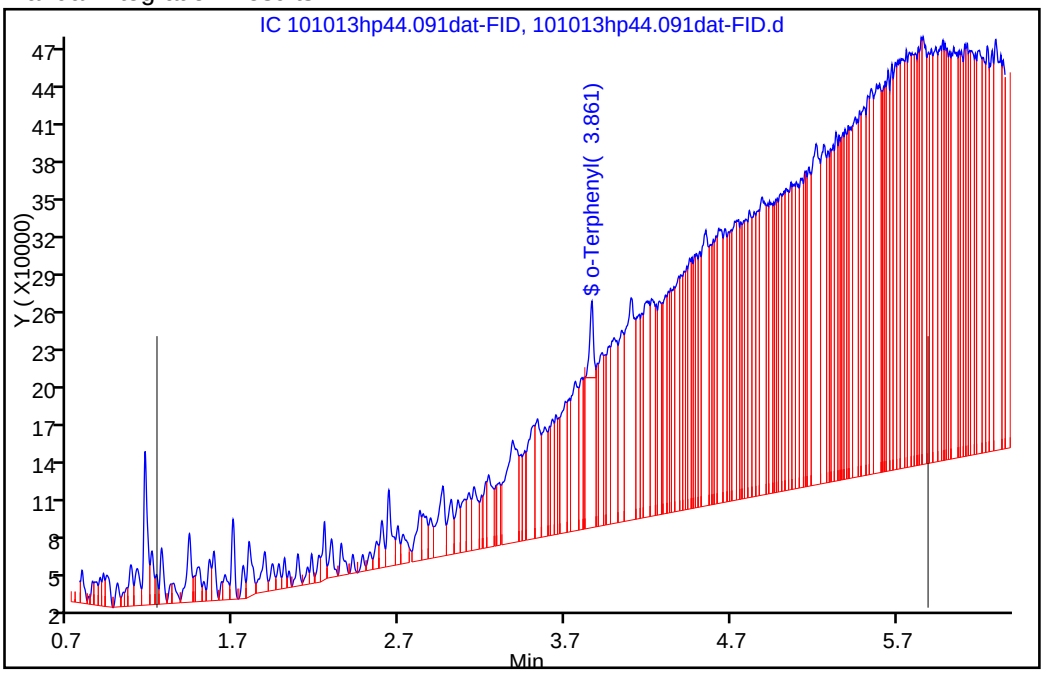
Processing Integration Results

RT: 3.56
Response: 5893579
Amount: 702.6595



Manual Integration Results

RT: 3.56
Response: 33639707
Amount: 3961.1337



Reviewer: lawj, 11-Oct-2013 11:35:58
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.096dat-FID.d		
Lims ID:	490-37212-F-2-B	Client ID:	SRS-Area 1/6-7
Inject. Date:	11-Oct-2013 12:46:00	Dil. Factor:	250.0000
Sample Type:	Client		
Sample ID:	490-0026481-096		
Misc. Info.:	490-0026481-096		
Operator:	TAI.COM\nvldro	Instrument ID:	HP44
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	113317	Lims Sample ID:	96
Detector:	IC 101013hp44.096dat-FID		
Method:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\8015B_DRO.m		
Last Update:	11-Oct-2013 13:29:10	Calib Date:	04-Oct-2013 16:08:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP44\20131004-26185.b\100413hp44.020dat-FID.d		
Limit Group:	GC 8015C_D DRO ICAL		
Integrator:	Falcon		
Column Type:	ZB-1	Column Dia:	0.53 mm
Process Host:	XAWRK036		

First Level Reviewer: lawj Date: 11-Oct-2013 13:21:47

RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 31 C10-C28					M
3.562	1.232 -	5.893	9944484	1178.4	M
$ 20 o-Terphenyl					
3.858	3.858	0.000	6829	0.6745	

QC Flag Legend

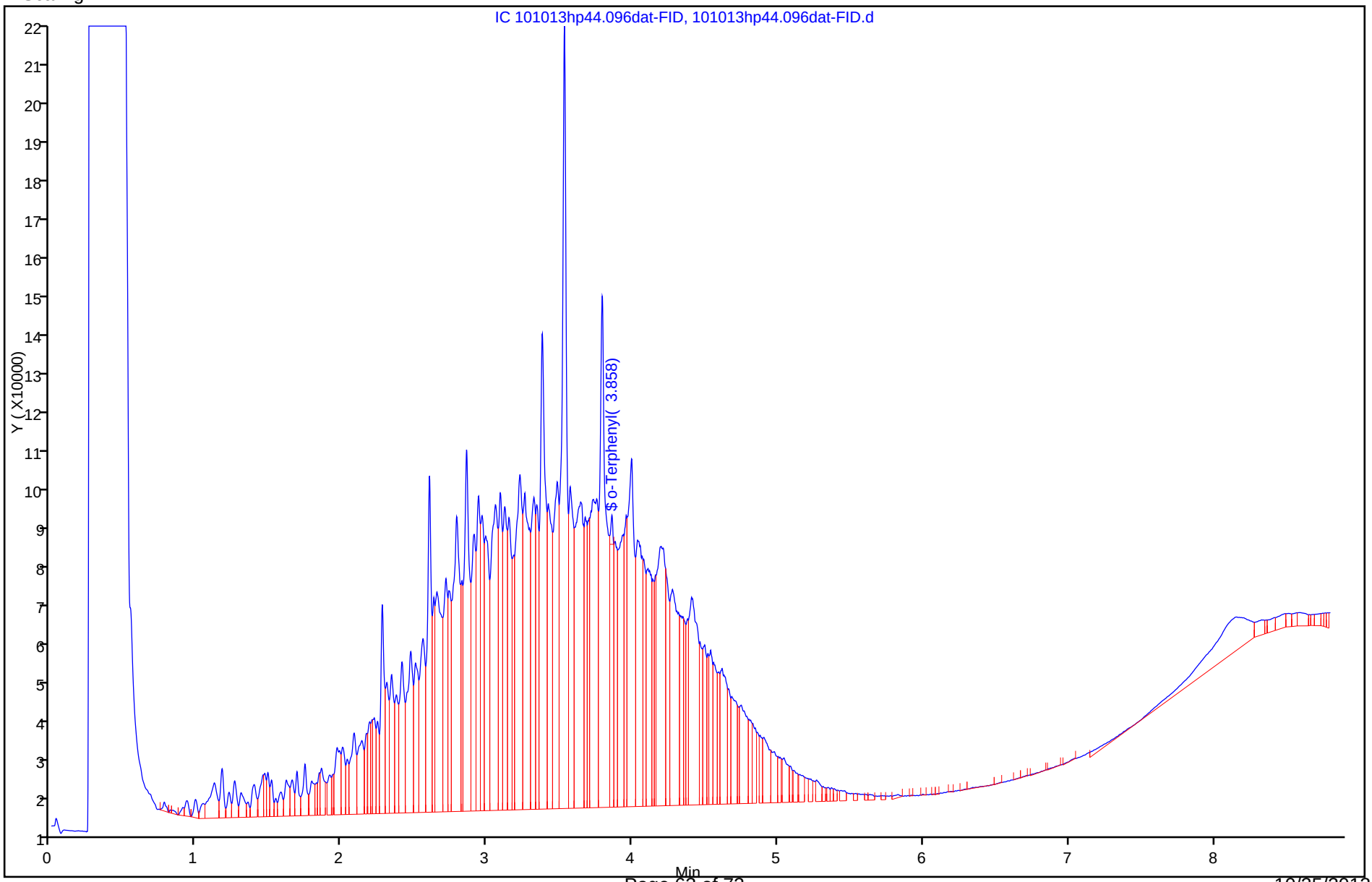
Review Flags
M - Manually Integrated

Report Date: 11-Oct-2013 13:29:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.096dat-FID.d		
Injection Date:	11-Oct-2013 12:46:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1/6-7	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	96
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

Y Scaling:



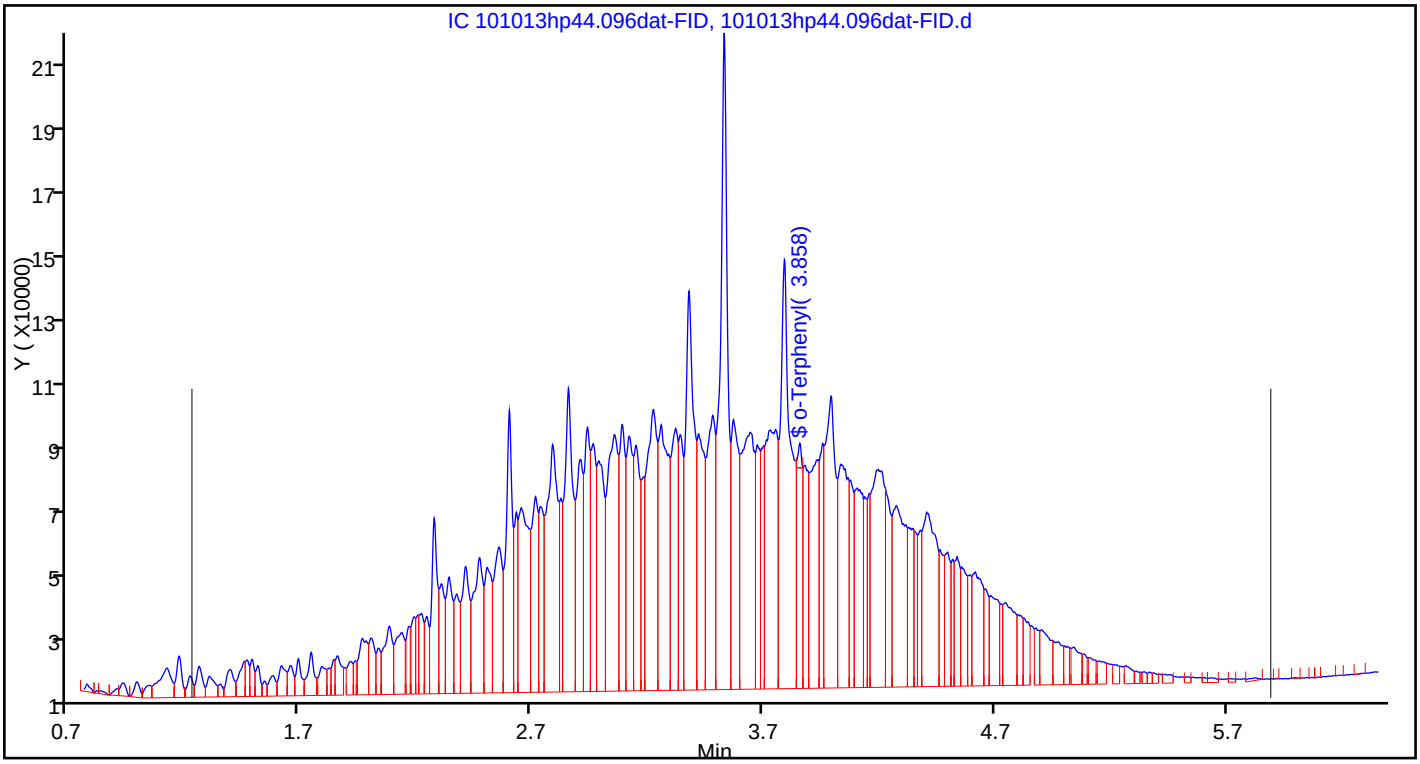
Report Date: 11-Oct-2013 13:29:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.096dat-FID.d

Injection Date:	11-Oct-2013 12:46:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1/6-7	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	96
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Detector: 1, IC dat-FID



Manual Integration/User Assign Peak Report

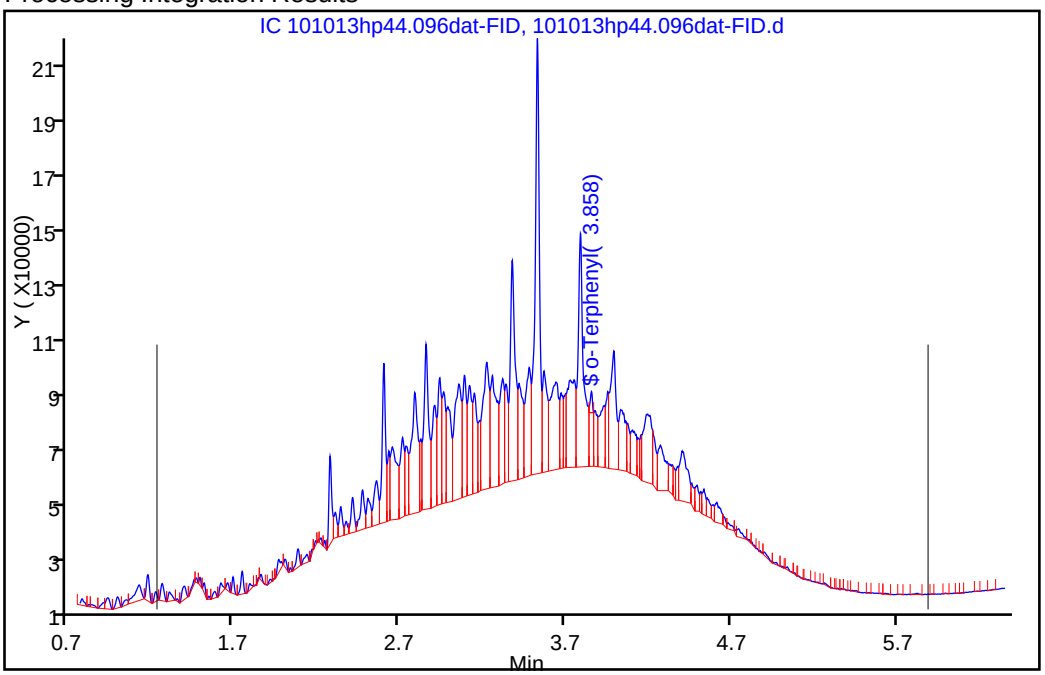
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.096dat-FID.d		
Injection Date:	11-Oct-2013 12:46:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1/6-7	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	96
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Signal: 1, Type: quant, RT: 3.56

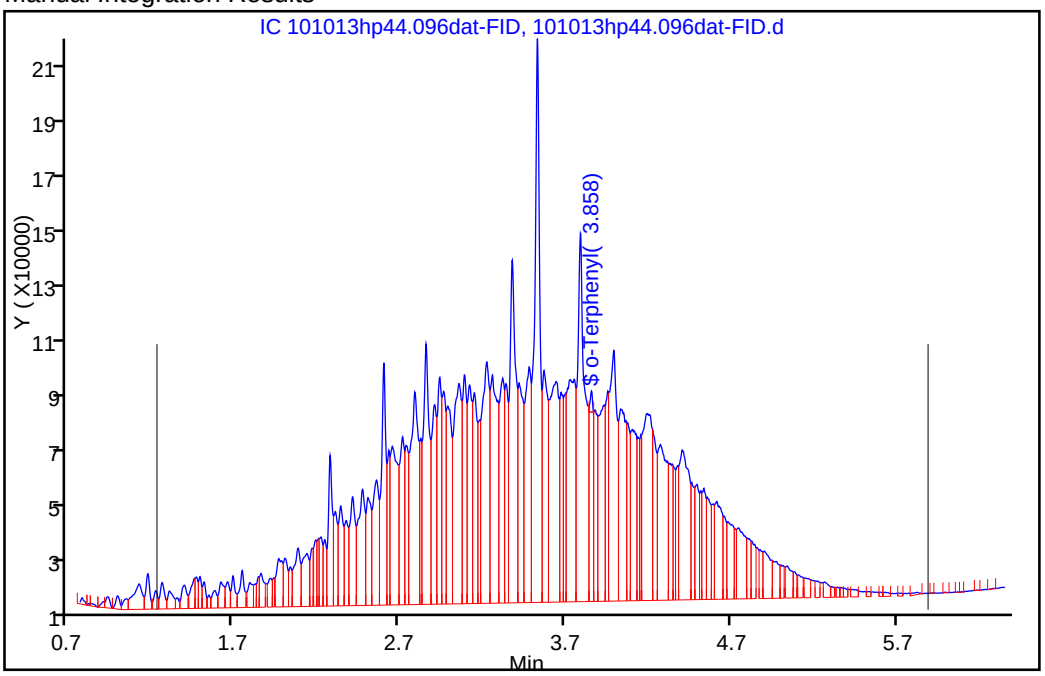
Processing Integration Results

RT: 3.56
Response: 3560421
Amount: 428.6560



Manual Integration Results

RT: 3.56
Response: 9944484
Amount: 1178.3932



Reviewer: lawj, 11-Oct-2013 13:21:47
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.059dat-FID.d		
Lims ID:	490-37212-F-3-A	Client ID:	SRS-Area 1A/7-8
Inject. Date:	11-Oct-2013 01:31:00	Dil. Factor:	25.0000
Sample Type:	Client		
Sample ID:	490-0026481-059		
Misc. Info.:	490-0026481-059		
Operator:	TAI.COM\nvldro	Instrument ID:	HP44
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	113317	Lims Sample ID:	59
Detector:	IC 101013hp44.059dat-FID		
Method:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\8015B_DRO.m		
Last Update:	11-Oct-2013 11:18:54	Calib Date:	04-Oct-2013 16:08:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP44\20131004-26185.b\100413hp44.020dat-FID.d		
Limit Group:	GC 8015C_D DRO ICAL		
Integrator:	Falcon		
Column Type:	ZB-1	Column Dia:	0.53 mm
Process Host:	XAWRK036		

First Level Reviewer: lawj Date: 11-Oct-2013 10:09:27

RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 31 C10-C28					M
3.562	1.232 -	5.893	33017807	3888.1	M
$ 20 o-Terphenyl					
3.860	3.858	0.002	33890	3.35	

QC Flag Legend

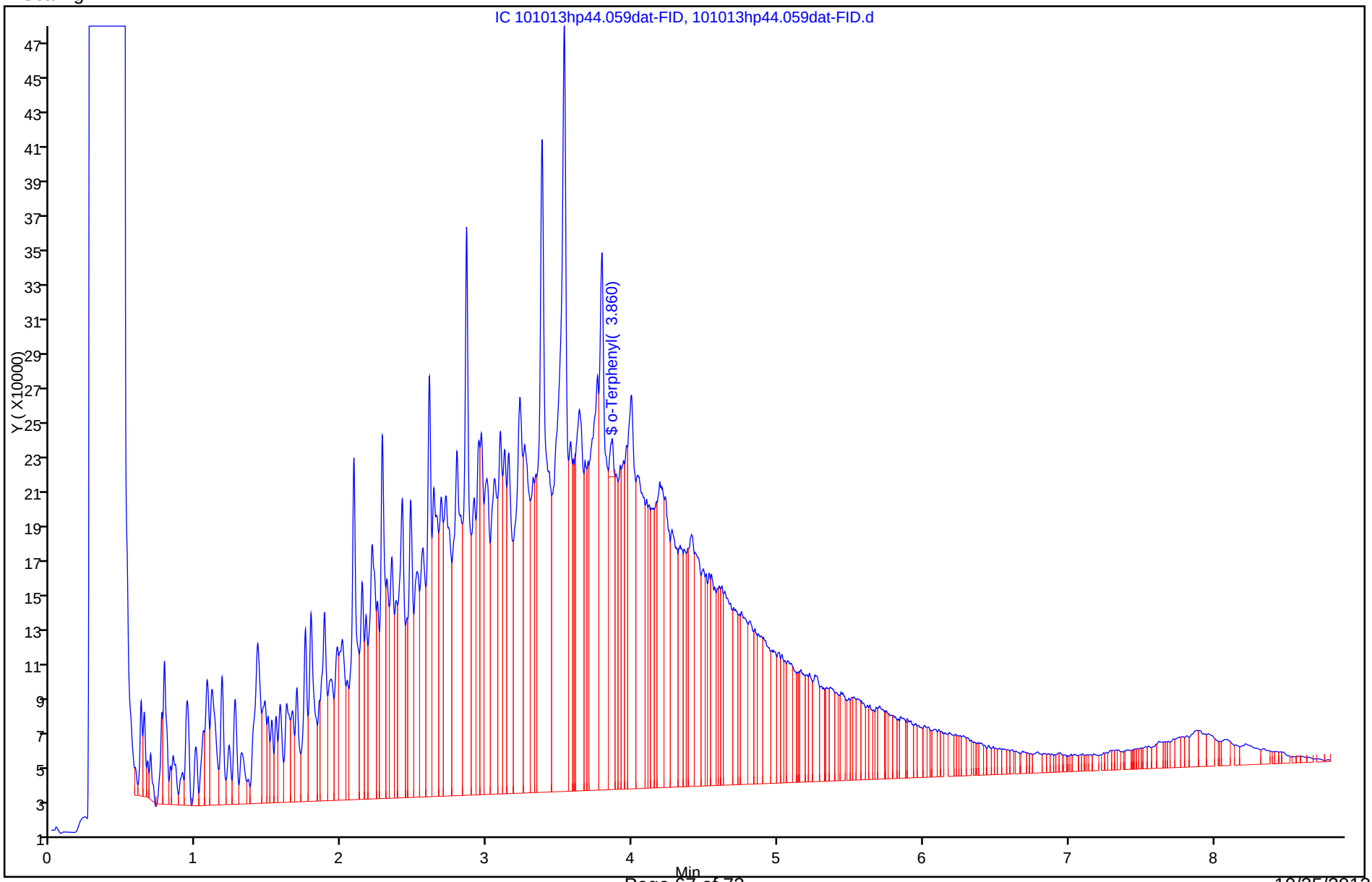
Review Flags
M - Manually Integrated

Report Date: 11-Oct-2013 11:18:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.059dat-FID.d		
Injection Date:	11-Oct-2013 01:31:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1A/7-8	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	59
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

Y Scaling:

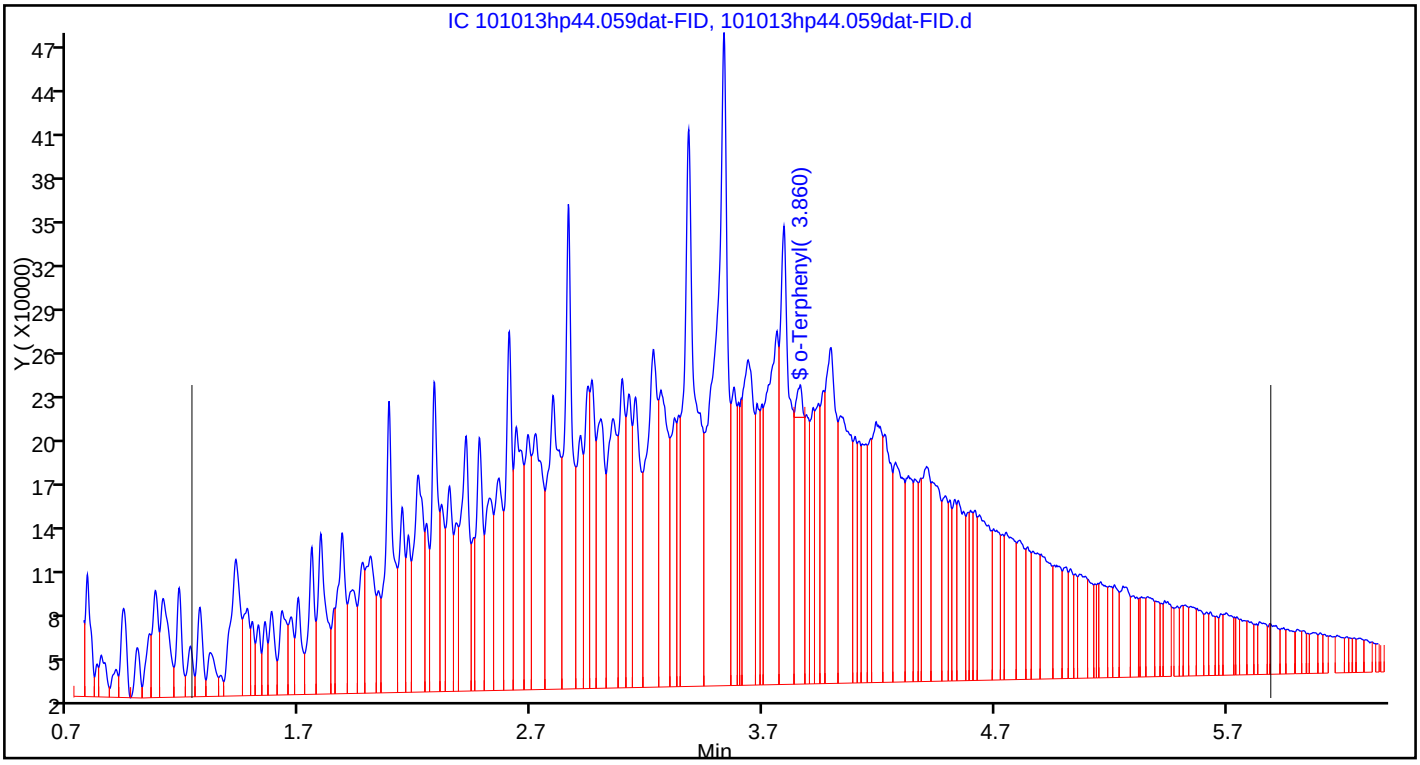


Report Date: 11-Oct-2013 11:18:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.059dat-FID.d		
Injection Date:	11-Oct-2013 01:31:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1A/7-8	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	59
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Detector: 1, IC dat-FID



Manual Integration/User Assign Peak Report

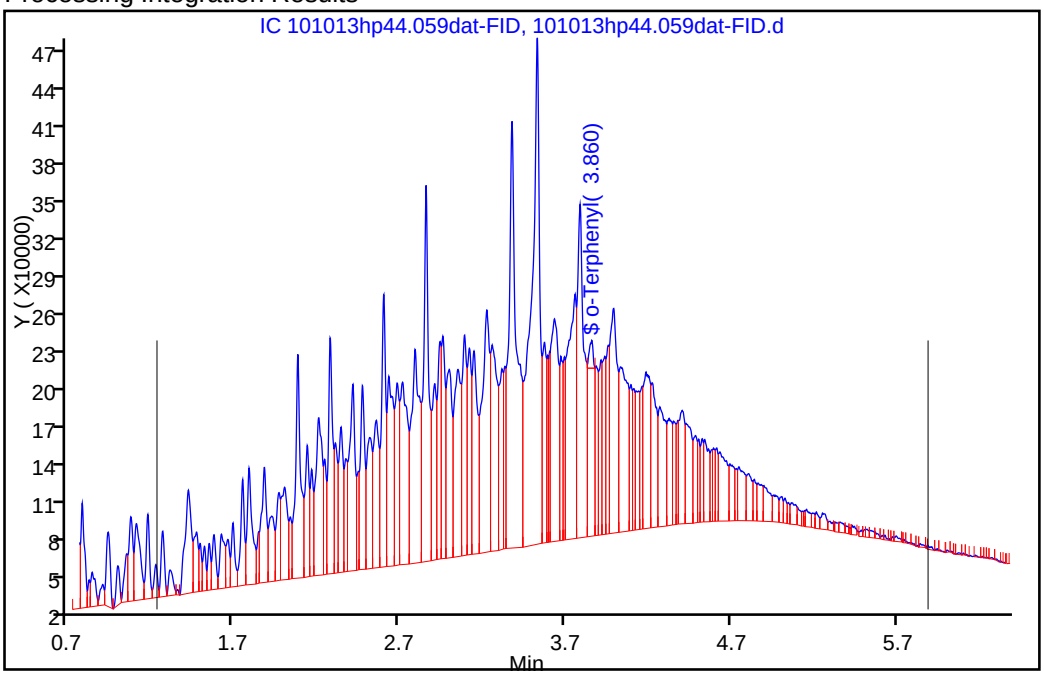
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP44\20131010-26481.b\101013hp44.059dat-FID.d		
Injection Date:	11-Oct-2013 01:31:00	Limit Group:	GC 8015C_D DRO ICAL
Client ID:	SRS-Area 1A/7-8	Instrument ID:	HP44
Lims Batch ID:	113317	Lims Sample ID:	59
Operator ID:	TAI.COM\nvldro	Injection Vol:	1.0 ul
Column Type:	ZB-1	Column Dia:	0.53 mm

A 31 C10-C28, Signal: 1, Type: quant, RT: 3.56

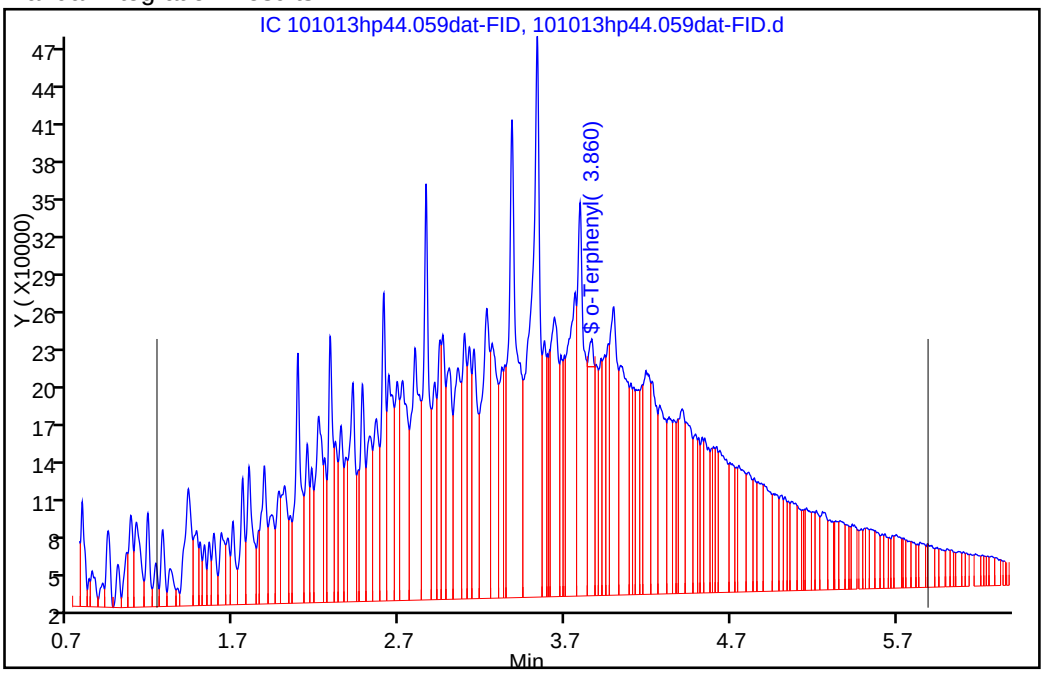
Processing Integration Results

RT: 3.56
Response: 22656227
Amount: 2671.2461



Manual Integration Results

RT: 3.56
Response: 33017807
Amount: 3888.0985



Reviewer: lawj, 11-Oct-2013 10:09:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Boston

490-37212 Chain of Custody

Cooler Received/Opened On 10/8/2013 @ 0830

1. Tracking # 1199 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? YES..(NO)..NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO..(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES).NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES).NO...NA

12. Did all container labels and tags agree with custody papers? (YES).NO...NA

13a. Were VOA vials received? (YES).NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? (YES).NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? (YES).NO...NA

18. Did you sign the custody papers in the appropriate place? (YES).NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES).NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

1 of 1

Loc: 490
37212

10/25/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Roux Associates
Address: 12 Gill Street, Suite 4700
City/State/Zip: Woburn, MA 01801
ExxonMobil Project Mgr: Eric W. Errico
Consultant Project Mgr: Jason Weckbacher

Consultant Telephone Number: 781-569-4000 Fax No:
Sampler Name: (Print) Jason Weckbacher
Sampler Signature: Jason Weckbacher

TA Project #: 49005538
Invoice To: Roux Associates, Inc.
Report To: Jason Weckbacher
PO #:
PROJECT: 301 - 351 Franklin Street
Facility ID #
Site Address 351 Franklin Street
City, State, Zip Olean, NY
Regulatory District (CA)
Major Project (AFE)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B Volatiles	8270C SVOCs	8 RCRA Metals	TPH Fingerprint - DRO	TPH Fingerprint - GRO							RUSH TAT (Pre-Scheduled) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
SRS-Area 2 / 4	09/27/13	12:30	8	X			X	X						X					X		X	X	X	X	X							1				
SRS-Area 1 / 6-7	09/30/13	9:25	7	X			X	X						X					X		X	X	X	X	X							2				
SRS-Area 1A / 7-8	10/01/13	9:10	7	X			X	X						X					X		X	X	X	X	X							3				
~~TRIP Blank~~ Trip Blank	—	—	2						X												X											4				

Comments/Special Instructions: Fingerprint - provide Chromatograms and Contaminant ID with GRO & DRO

TA Project # 49005538

Laboratory Comments:
Temperature Upon Receipt: 17c
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other
* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Relinquished by:	Date	Time	Received by:	Date	Time
Jason Weckbacher	10-07-13	9:30		10-07-13	8:30
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
	10-07-13	14:00	TAL	10/7/13	1400
TAL	10/7/13	1606	Recd by: TAW 10.8.13 @ 0830		

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-37212-1

Login Number: 37212

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.7
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-58508-1
Client Project/Site: 229 Homer & 351 Franklin St, Olean, NY

For:
Roux Associates, Inc.
12 Gill St., Suite 4700
Woburn, Massachusetts 01801

Attn: Jason Weckbacher

Jennifer Huckaba

Authorized for release by:
8/21/2014 2:03:26 PM

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

Table of Contents

Sample Summary

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-58508-1	END-1/11	Soil	07/29/14 09:30	08/01/14 08:15
490-58508-2	END-2/15	Soil	07/30/14 10:00	08/01/14 08:15
490-58508-3	Trip blank	Soil	07/29/14 00:01	08/01/14 08:15

Case Narrative

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Job ID: 490-58508-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-58508-1

Comments
No additional comments.

Receipt
The samples were received on 8/1/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following sample was outside control limits: END-1/11 (490-58508-1), END-2/15 (490-58508-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The method blank for batch 181094 contained chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following QC samples from batch 181094: (490-58534-4 MS), (490-58534-4 MSD). The sample(s) shows evidence of matrix interference.

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: During the extraction process surrogate was inadvertently omitted from the QC batch 181341laboratory control sample (LCS) and matrix spike and matrix spike duplicate (MS/MSD). The LCS and MS % recoveries were within control limits and the associated method blank (MB) and all samples surrogate recoveries were within control limits; therefore, the data is reported. The matrix spike duplicate (MSD) precision (RPD) and some % recoveries for batch 181341 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) precision (RPD) and % recoveries were within acceptance limits.

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

Metals
Method(s) 6010C: The method blank for batch 490-183345 contained Mn above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

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

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	Surrogate exceeds the control limit
B	The analyte was found in an associated blank, as well as in the sample.
*	ISTD response or retention time outside acceptable limits
*	MS or MSD exceeds the control limits
*	Duplicate RPD exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an estimated value.
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
*	Surrogate exceeds the control limit
*	Duplicate RPD exceeds control limits
*	MS or MSD exceeds the control limits
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
N	Spiked sample recovery is not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.
B	Compound was found in the blank and sample.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-1/11
Date Collected: 07/29/14 09:30
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-1
Matrix: Soil
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.000707	U	0.00154	0.000707	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,1,2,2-Tetrachloroethane	0.000769	U	0.00154	0.000769	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000607	U	0.00154	0.000607	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,1,2-Trichloroethane	0.00108	U	0.00384	0.00108	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,1-Dichloroethane	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,1-Dichloroethene	0.000438	U	0.00154	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2,3-Trichlorobenzene	0.000292	U	0.00154	0.000292	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2,4-Trichlorobenzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2-Dibromo-3-Chloropropane	0.000538	U	0.00384	0.000538	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2-Dichlorobenzene	0.000261	U	0.00154	0.000261	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2-Dichloroethane	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,2-Dichloropropane	0.000723	U	0.00154	0.000723	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,3-Dichlorobenzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
1,4-Dichlorobenzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
2-Butanone (MEK)	**0.0144**	**J**	0.0384	0.00392	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
2-Hexanone	0.0128	U	0.0384	0.0128	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
4-Methyl-2-pentanone (MIBK)	0.0131	U	0.0384	0.0131	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Acetone	**0.131**		0.0384	0.0307	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Benzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Bromoform	0.000423	U	0.00154	0.000423	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Bromomethane	0.000922	U	0.00154	0.000922	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Carbon disulfide	0.00277	U	0.00384	0.00277	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Carbon tetrachloride	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chlorobenzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chlorobromomethane	0.000423	U	0.00154	0.000423	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chlorodibromomethane	0.000261	U	0.00154	0.000261	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chloroethane	0.00146	U	0.00384	0.00146	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chloroform	**0.000577**	**J B**	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Chloromethane	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
cis-1,2-Dichloroethene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
cis-1,3-Dichloropropene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Cyclohexane	0.00254	U	0.00769	0.00254	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Dichlorobromomethane	0.000423	U	0.00154	0.000423	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Dichlorodifluoromethane	0.000769	U	0.00154	0.000769	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Ethylbenzene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Ethylene Dibromide	0.000769	U	0.00154	0.000769	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Isopropylbenzene	0.000315	U	0.00154	0.000315	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Methyl acetate	0.00184	U	0.00769	0.00184	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Methyl tert-butyl ether	0.000738	U	0.00154	0.000738	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Methylcyclohexane	0.00254	U	0.00769	0.00254	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Methylene Chloride	0.000661	U	0.00769	0.000661	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Styrene	0.000846	U	0.00154	0.000846	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Tetrachloroethene	0.000561	U	0.00154	0.000561	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Toluene	**0.00215**		0.00154	0.000569	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
trans-1,2-Dichloroethene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
trans-1,3-Dichloropropene	0.000515	U	0.00154	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Trichloroethene	0.000738	U	0.00154	0.000738	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Trichlorofluoromethane	0.000769	U	0.00154	0.000769	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1
Vinyl chloride	0.000846	U	0.00154	0.000846	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-1/11
Date Collected: 07/29/14 09:30
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-1
Matrix: Soil
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000515	U	0.00231	0.000515	mg/Kg	☼	08/02/14 08:54	08/02/14 14:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane, 1,1,3-trimethyl-	*0.169*	*J N*	*mg/Kg*	☼	*6.13*	*3073-66-3*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	*0.243*	*J N*	*mg/Kg*	☼	*6.32*	*1795-26-2*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Heptane, 3-ethyl-	*0.457*	*J N*	*mg/Kg*	☼	*6.42*	*15869-80-4*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Cyclohexane, 1-ethyl-4-methyl-, cis-	*0.383*	*J N*	*mg/Kg*	☼	*6.80*	*4926-78-7*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Octane, 3-ethyl-	*0.115*	*J N*	*mg/Kg*	☼	*6.97*	*5881-17-4*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
1-Ethyl-3-methylcyclohexane (c,t)	*0.437*	*J N*	*mg/Kg*	☼	*7.10*	*3728-55-0*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Naphthalene, decahydro-, trans-	*0.167*	*J N*	*mg/Kg*	☼	*9.11*	*493-02-7*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Bicyclo[4.1.0]heptan-3-one, 4,7,7-trimet	*0.117*	*J N*	*mg/Kg*	☼	*9.75*	*4176-01-6*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Cyclohexane, 1-methyl-4-(1-methylbutyl)-	*0.127*	*J N*	*mg/Kg*	☼	*10.48*	*54411-00-6*	*08/02/14 08:54*	*08/02/14 14:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
4-Bromofluorobenzene (Surr)	*2008*	*	*70 - 130*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*08/02/14 08:54*	*08/02/14 14:02*	*1*
Toluene-d8 (Surr)	*255*	*	*70 - 130*	*08/02/14 08:54*	*08/02/14 14:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.247	U	1.60	0.247	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,3,4,6-Tetrachlorophenol	0.162	U	0.319	0.162	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4,5-Trichlorophenol	0.0163	U	0.798	0.0163	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4,6-Trichlorophenol	0.0239	U	0.319	0.0239	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4-Dichlorophenol	0.0163	U	0.319	0.0163	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4-Dimethylphenol	0.184	U	0.319	0.184	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4-Dinitrophenol	0.105	U	0.319	0.105	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,4-Dinitrotoluene	0.00862	U	0.319	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2,6-Dinitrotoluene	0.0297	U	0.319	0.0297	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Chloronaphthalene	0.0163	U	0.319	0.0163	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Chlorophenol	0.0144	U	0.319	0.0144	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Methylnaphthalene	0.0153	U	0.0642	0.0153	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Nitroaniline	0.0172	U	0.798	0.0172	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Methylphenol	0.0891	U	0.319	0.0891	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
2-Nitrophenol	0.0124	U	0.319	0.0124	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
3 & 4 Methylphenol	0.0192	U	0.319	0.0192	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
3,3'-Dichlorobenzidine	0.127	U	0.639	0.127	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
3-Nitroaniline	0.142	U	0.798	0.142	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4,6-Dinitro-2-methylphenol	0.0986	U	0.319	0.0986	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Bromophenyl phenyl ether	0.0163	U	0.319	0.0163	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Chloro-3-methylphenol	0.0153	U	0.319	0.0153	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Chloroaniline	0.159	U	0.319	0.159	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Chlorophenyl phenyl ether	0.0230	U	0.319	0.0230	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Nitroaniline	0.0287	U	0.798	0.0287	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
4-Nitrophenol	0.0144	U	0.319	0.0144	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Acenaphthene	0.00958	U	0.0642	0.00958	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Acenaphthylene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-1/11
Date Collected: 07/29/14 09:30
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-1
Matrix: Soil
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	0.0670	U	0.319	0.0670	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Anthracene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Atrazine	0.160	U	0.319	0.160	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzo[a]anthracene	0.0144	U	0.0642	0.0144	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzo[a]pyrene	0.0115	U	0.0642	0.0115	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzo[b]fluoranthene	0.0115	U	0.0642	0.0115	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzo[g,h,i]perylene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzo[k]fluoranthene	0.0134	U	0.0642	0.0134	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Benzaldehyde	0.274	U	1.60	0.274	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Bis(2-chloroethoxy)methane	0.0115	U	0.319	0.0115	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Biphenyl	0.0996	U	0.319	0.0996	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Bis(2-chloroethyl)ether	0.0192	U	0.319	0.0192	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
bis (2-chloroisopropyl) ether	0.128	U	0.319	0.128	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Butyl benzyl phthalate	0.0153	U	0.319	0.0153	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Bis(2-ethylhexyl) phthalate	0.0124	U	0.319	0.0124	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Carbazole	0.00670	U	0.319	0.00670	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Caprolactam	0.103	U	0.319	0.103	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Chrysene	**0.0432**	**J**	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Dibenz(a,h)anthracene	0.00670	U	0.0642	0.00670	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Dibenzofuran	0.0124	U	0.319	0.0124	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Diethyl phthalate	0.0134	U	0.319	0.0134	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Dimethyl phthalate	0.00766	U	1.60	0.00766	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Di-n-butyl phthalate	0.0124	U	0.319	0.0124	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Fluorene	0.0115	U	0.0642	0.0115	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Di-n-octyl phthalate	0.0124	U	0.319	0.0124	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Hexachlorobenzene	0.0278	U	0.319	0.0278	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Hexachlorobutadiene	0.0670	U	0.319	0.0670	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Hexachlorocyclopentadiene	0.0153	U	0.319	0.0153	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Hexachloroethane	0.0192	U	0.319	0.0192	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Indeno[1,2,3-cd]pyrene	0.00958	U	0.0642	0.00958	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Isophorone	0.0565	U	0.319	0.0565	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Naphthalene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Nitrobenzene	0.0163	U	0.319	0.0163	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
N-Nitrosodi-n-propylamine	0.0201	U	0.319	0.0201	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
n-Nitrosodiphenylamine(as diphenylamine)	0.0153	U	0.319	0.0153	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Pentachlorophenol	0.120	U	0.798	0.120	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Phenanthrene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Phenol	0.0134	U	0.319	0.0134	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Pyrene	0.0115	U	0.0642	0.0115	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1
Fluoranthene	0.00862	U	0.0642	0.00862	mg/Kg	☼	08/04/14 11:26	08/04/14 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*
2-Fluorobiphenyl (Surr)	*67*		*29 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*
Phenol-d5 (Surr)	*63*		*10 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*
Terphenyl-d14 (Surr)	*75*		*13 - 120*	*08/04/14 11:26*	*08/04/14 19:46*	*1*

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-1/11
Date Collected: 07/29/14 09:30
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-1
Matrix: Soil
Percent Solids: 96.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4550		20.7	10.4	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Antimony	1.04	U	10.4	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Arsenic	4.76		2.07	0.932	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Barium	22.5		2.07	1.66	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Beryllium	0.414	U	1.04	0.414	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Cadmium	0.104	U	1.04	0.104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Calcium	653		207	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Chromium	6.46		1.04	0.621	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Cobalt	3.95		2.07	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Copper	17.5		2.07	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Iron	13100		41.4	20.7	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Lead	10.7		1.04	0.518	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Magnesium	1720		207	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Manganese	99.7	B	3.11	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Nickel	10.3		2.07	0.621	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Potassium	295		207	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Selenium	1.04	U	2.07	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Silver	0.518	U	1.04	0.518	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Sodium	104	U	207	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Thallium	1.04	U	2.07	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Vanadium	7.16	J	10.4	2.07	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	1
Zinc	44.6		10.4	6.21	mg/Kg	☼	08/13/14 08:38	08/17/14 00:41	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	0.0308	U	0.103	0.0308	mg/Kg	☼	08/14/14 10:34	08/14/14 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.100	0.100	%			08/02/14 10:57	1

Client Sample ID: END-2/15
Date Collected: 07/30/14 10:00
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-2
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.000602	U	0.00131	0.000602	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,1,2,2-Tetrachloroethane	0.000654	U	0.00131	0.000654	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000517	U	0.00131	0.000517	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,1,2-Trichloroethane	0.000916	U	0.00327	0.000916	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,1-Dichloroethane	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,1-Dichloroethene	0.000373	U	0.00131	0.000373	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2,3-Trichlorobenzene	0.000249	U	0.00131	0.000249	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2,4-Trichlorobenzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2-Dibromo-3-Chloropropane	0.000458	U	0.00327	0.000458	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2-Dichlorobenzene	0.000222	U	0.00131	0.000222	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2-Dichloroethane	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,2-Dichloropropane	0.000615	U	0.00131	0.000615	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,3-Dichlorobenzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
1,4-Dichlorobenzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
2-Butanone (MEK)	0.00334	U	0.0327	0.00334	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
2-Hexanone	0.0109	U	0.0327	0.0109	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
4-Methyl-2-pentanone (MIBK)	0.0111	U	0.0327	0.0111	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Acetone	**0.0708**		0.0327	0.0262	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Benzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Bromoform	0.000360	U	0.00131	0.000360	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Bromomethane	0.000785	U	0.00131	0.000785	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Carbon disulfide	**0.00509**		0.00327	0.00236	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Carbon tetrachloride	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chlorobenzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chlorobromomethane	0.000360	U	0.00131	0.000360	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chlorodibromomethane	0.000222	U	0.00131	0.000222	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chloroethane	0.00124	U	0.00327	0.00124	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chloroform	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Chloromethane	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
cis-1,2-Dichloroethene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
cis-1,3-Dichloropropene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Cyclohexane	**0.0523**		0.00654	0.00216	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Dichlorobromomethane	0.000360	U	0.00131	0.000360	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Dichlorodifluoromethane	0.000654	U	0.00131	0.000654	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Ethylbenzene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Ethylene Dibromide	0.000654	U	0.00131	0.000654	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Isopropylbenzene	0.000268	U	0.00131	0.000268	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Methyl acetate	0.00157	U	0.00654	0.00157	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Methyl tert-butyl ether	0.000628	U	0.00131	0.000628	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Methylcyclohexane	0.00216	U	0.00654	0.00216	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Methylene Chloride	0.000563	U	0.00654	0.000563	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Styrene	0.000720	U	0.00131	0.000720	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Tetrachloroethene	0.000478	U	0.00131	0.000478	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Toluene	0.000484	U	0.00131	0.000484	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
trans-1,2-Dichloroethene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
trans-1,3-Dichloropropene	0.000438	U	0.00131	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Trichloroethene	0.000628	U	0.00131	0.000628	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Trichlorofluoromethane	0.000654	U	0.00131	0.000654	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1
Vinyl chloride	0.000720	U	0.00131	0.000720	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-2/15
Date Collected: 07/30/14 10:00
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-2
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000438	U	0.00196	0.000438	mg/Kg	☼	08/02/14 08:54	08/02/14 14:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Heptane, 3-methyl-	*1.02*	*J N*	*mg/Kg*	☼	*5.13*	*589-81-1*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Cyclohexane, 1,3-dimethyl-, trans-	*1.92*	*J N*	*mg/Kg*	☼	*5.31*	*2207-03-6*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Cyclohexane, 1,1-dimethyl-	*1.08*	*J N*	*mg/Kg*	☼	*5.45*	*590-66-9*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Cyclohexane, 1,3-dimethyl-, cis-	*2.09*	*J N*	*mg/Kg*	☼	*5.60*	*638-04-0*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Cyclohexane, 1,1,3-trimethyl-	*1.37*	*J N*	*mg/Kg*	☼	*6.68*	*3073-66-3*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
6-Methyloctahydrocoumarin	*1.10*	*J N*	*mg/Kg*	☼	*6.99*	*80648-29-9*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Heptadecane	*1.36*	*J N*	*mg/Kg*	☼	*7.56*	*629-78-7*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Cyclohexane, octyl-	*1.05*	*J N*	*mg/Kg*	☼	*9.85*	*1795-15-9*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Undecane, 3,6-dimethyl-	*1.29*	*J N*	*mg/Kg*	☼	*10.65*	*17301-28-9*	*08/02/14 08:54*	*08/02/14 14:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
4-Bromofluorobenzene (Surr)	*1662*	*	*70 - 130*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Dibromofluoromethane (Surr)	*82*		*70 - 130*	*08/02/14 08:54*	*08/02/14 14:32*	*1*
Toluene-d8 (Surr)	*807*	*	*70 - 130*	*08/02/14 08:54*	*08/02/14 14:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.253	U	1.64	0.253	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,3,4,6-Tetrachlorophenol	0.166	U	0.326	0.166	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4,5-Trichlorophenol	0.0167	U	0.817	0.0167	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4,6-Trichlorophenol	0.0245	U	0.326	0.0245	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4-Dichlorophenol	0.0167	U	0.326	0.0167	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4-Dimethylphenol	0.188	U	0.326	0.188	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4-Dinitrophenol	0.108	U	0.326	0.108	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,4-Dinitrotoluene	0.00882	U	0.326	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2,6-Dinitrotoluene	0.0304	U	0.326	0.0304	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Chloronaphthalene	0.0167	U	0.326	0.0167	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Chlorophenol	0.0147	U	0.326	0.0147	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Methylnaphthalene	**0.148**		0.0657	0.0157	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Nitroaniline	0.0176	U	0.817	0.0176	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Methylphenol	0.0912	U	0.326	0.0912	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
2-Nitrophenol	0.0127	U	0.326	0.0127	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
3 & 4 Methylphenol	0.0196	U	0.326	0.0196	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
3,3'-Dichlorobenzidine	0.130	U	0.654	0.130	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
3-Nitroaniline	0.145	U	0.817	0.145	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4,6-Dinitro-2-methylphenol	0.101	U	0.326	0.101	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Bromophenyl phenyl ether	0.0167	U	0.326	0.0167	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Chloro-3-methylphenol	0.0157	U	0.326	0.0157	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Chloroaniline	0.163	U	0.326	0.163	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Chlorophenyl phenyl ether	0.0235	U	0.326	0.0235	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Nitroaniline	0.0294	U	0.817	0.0294	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
4-Nitrophenol	0.0147	U	0.326	0.0147	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Acenaphthene	0.00980	U	0.0657	0.00980	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Acenaphthylene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Acetophenone	0.0686	U	0.326	0.0686	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Anthracene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1

Client Sample ID: END-2/15
Date Collected: 07/30/14 10:00
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-2
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	0.164	U	0.326	0.164	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzo[a]anthracene	0.0147	U	0.0657	0.0147	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzo[a]pyrene	0.0118	U	0.0657	0.0118	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzo[b]fluoranthene	0.0118	U	0.0657	0.0118	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzo[g,h,i]perylene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzo[k]fluoranthene	0.0137	U	0.0657	0.0137	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Benzaldehyde	0.280	U	1.64	0.280	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Bis(2-chloroethoxy)methane	0.0118	U	0.326	0.0118	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Biphenyl	0.102	U	0.326	0.102	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Bis(2-chloroethyl)ether	0.0196	U	0.326	0.0196	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
bis (2-chloroisopropyl) ether	0.131	U	0.326	0.131	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Butyl benzyl phthalate	0.0157	U	0.326	0.0157	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Bis(2-ethylhexyl) phthalate	**0.0514**	**J**	0.326	0.0127	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Carbazole	0.00686	U	0.326	0.00686	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Caprolactam	0.106	U	0.326	0.106	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Chrysene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Dibenz(a,h)anthracene	0.00686	U	0.0657	0.00686	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Dibenzofuran	0.0127	U	0.326	0.0127	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Diethyl phthalate	0.0137	U	0.326	0.0137	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Dimethyl phthalate	0.00784	U	1.64	0.00784	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Di-n-butyl phthalate	0.0127	U	0.326	0.0127	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Fluorene	0.0118	U	0.0657	0.0118	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Di-n-octyl phthalate	0.0127	U	0.326	0.0127	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Hexachlorobenzene	0.0284	U	0.326	0.0284	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Hexachlorobutadiene	0.0686	U	0.326	0.0686	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Hexachlorocyclopentadiene	0.0157	U	0.326	0.0157	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Hexachloroethane	0.0196	U	0.326	0.0196	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Indeno[1,2,3-cd]pyrene	0.00980	U	0.0657	0.00980	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Isophorone	0.0578	U	0.326	0.0578	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Naphthalene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Nitrobenzene	0.0167	U	0.326	0.0167	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
N-Nitrosodi-n-propylamine	0.0206	U	0.326	0.0206	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
n-Nitrosodiphenylamine(as diphenylamine)	0.0157	U	0.326	0.0157	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Pentachlorophenol	0.123	U	0.817	0.123	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Phenanthrene	**0.176**		0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Phenol	0.0137	U	0.326	0.0137	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Pyrene	0.0118	U	0.0657	0.0118	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1
Fluoranthene	0.00882	U	0.0657	0.00882	mg/Kg	☼	08/04/14 11:26	08/04/14 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*
2-Fluorobiphenyl (Surr)	*65*		*29 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*
Phenol-d5 (Surr)	*60*		*10 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*
Terphenyl-d14 (Surr)	*75*		*13 - 120*	*08/04/14 11:26*	*08/04/14 20:09*	*1*

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-2/15
Date Collected: 07/30/14 10:00
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-2
Matrix: Soil
Percent Solids: 95.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3710		20.8	10.4	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Antimony	1.04	U	10.4	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Arsenic	4.98		2.08	0.934	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Barium	12.3		2.08	1.66	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Beryllium	0.415	U	1.04	0.415	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Cadmium	0.104	U	1.04	0.104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Calcium	774		208	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Chromium	4.88		1.04	0.623	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Cobalt	3.94		2.08	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Copper	17.1		2.08	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Iron	11800		41.5	20.8	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Lead	7.78		1.04	0.519	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Magnesium	1570		208	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Manganese	358	B	3.11	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Nickel	8.78		2.08	0.623	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Potassium	231		208	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Selenium	1.04	U	2.08	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Silver	0.519	U	1.04	0.519	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Sodium	104	U	208	104	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Thallium	1.04	U	2.08	1.04	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Vanadium	9.40	J	10.4	2.08	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	1
Zinc	53.5		10.4	6.23	mg/Kg	☼	08/13/14 08:38	08/17/14 00:44	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	0.0310	U	0.103	0.0310	mg/Kg	☼	08/14/14 10:34	08/14/14 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.2		0.100	0.100	%			08/02/14 10:57	1

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: Trip blank
Date Collected: 07/29/14 00:01
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-3
Matrix: Soil

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.000920	U	0.00200	0.000920	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,1,2,2-Tetrachloroethane	0.00100	U	0.00200	0.00100	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000790	U	0.00200	0.000790	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,1,2-Trichloroethane	0.00140	U	0.00500	0.00140	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,1-Dichloroethane	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,1-Dichloroethene	0.000570	U	0.00200	0.000570	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2,3-Trichlorobenzene	0.000380	U	0.00200	0.000380	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2,4-Trichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2-Dibromo-3-Chloropropane	0.000700	U	0.00500	0.000700	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2-Dichlorobenzene	0.000340	U	0.00200	0.000340	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2-Dichloroethane	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,2-Dichloropropane	0.000940	U	0.00200	0.000940	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,3-Dichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
1,4-Dichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
2-Butanone (MEK)	0.00510	U	0.0500	0.00510	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
2-Hexanone	0.0167	U	0.0500	0.0167	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
4-Methyl-2-pentanone (MIBK)	0.0170	U	0.0500	0.0170	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Acetone	0.0400	U	0.0500	0.0400	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Benzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Bromoform	0.000550	U	0.00200	0.000550	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Bromomethane	0.00120	U	0.00200	0.00120	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Carbon disulfide	0.00360	U	0.00500	0.00360	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Carbon tetrachloride	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chlorobromomethane	0.000550	U	0.00200	0.000550	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chlorodibromomethane	0.000340	U	0.00200	0.000340	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chloroethane	0.00190	U	0.00500	0.00190	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chloroform	**0.000795**	**J B**	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Chloromethane	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
cis-1,2-Dichloroethene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
cis-1,3-Dichloropropene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Cyclohexane	0.00330	U	0.0100	0.00330	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Dichlorobromomethane	0.000550	U	0.00200	0.000550	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Dichlorodifluoromethane	0.00100	U	0.00200	0.00100	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Ethylbenzene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Ethylene Dibromide	0.00100	U	0.00200	0.00100	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Isopropylbenzene	0.000410	U	0.00200	0.000410	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Methyl acetate	0.00240	U	0.0100	0.00240	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Methyl tert-butyl ether	0.000960	U	0.00200	0.000960	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Methylcyclohexane	0.00330	U	0.0100	0.00330	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Methylene Chloride	0.000860	U	0.0100	0.000860	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Styrene	0.00110	U	0.00200	0.00110	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Tetrachloroethene	0.000730	U	0.00200	0.000730	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Toluene	**0.00116**	**J**	0.00200	0.000740	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
trans-1,2-Dichloroethene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
trans-1,3-Dichloropropene	0.000670	U	0.00200	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Trichloroethene	0.000960	U	0.00200	0.000960	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Trichlorofluoromethane	0.00100	U	0.00200	0.00100	mg/Kg		08/02/14 08:54	08/02/14 13:01	1
Vinyl chloride	0.00110	U	0.00200	0.00110	mg/Kg		08/02/14 08:54	08/02/14 13:01	1

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: Trip blank
Date Collected: 07/29/14 00:01
Date Received: 08/01/14 08:15

Lab Sample ID: 490-58508-3
Matrix: Soil

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000670	U	0.00300	0.000670	mg/Kg		08/02/14 08:54	08/02/14 13:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*				*08/02/14 08:54*	*08/02/14 13:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*	*08/02/14 08:54*	*08/02/14 13:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/02/14 08:54*	*08/02/14 13:01*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*	*08/02/14 08:54*	*08/02/14 13:01*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*08/02/14 08:54*	*08/02/14 13:01*	*1*

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

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

Lab Sample ID: MB 490-181094/7
Matrix: Solid
Analysis Batch: 181094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.000920	U	0.00200	0.000920	mg/Kg			08/02/14 12:31	1
1,1,2,2-Tetrachloroethane	0.00100	U	0.00200	0.00100	mg/Kg			08/02/14 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000790	U	0.00200	0.000790	mg/Kg			08/02/14 12:31	1
1,1,2-Trichloroethane	0.00140	U	0.00500	0.00140	mg/Kg			08/02/14 12:31	1
1,1-Dichloroethane	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
1,1-Dichloroethene	0.000570	U	0.00200	0.000570	mg/Kg			08/02/14 12:31	1
1,2,3-Trichlorobenzene	0.000380	U	0.00200	0.000380	mg/Kg			08/02/14 12:31	1
1,2,4-Trichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
1,2-Dibromo-3-Chloropropane	0.000700	U	0.00500	0.000700	mg/Kg			08/02/14 12:31	1
1,2-Dichlorobenzene	0.000340	U	0.00200	0.000340	mg/Kg			08/02/14 12:31	1
1,2-Dichloroethane	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
1,2-Dichloropropane	0.000940	U	0.00200	0.000940	mg/Kg			08/02/14 12:31	1
1,3-Dichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
1,4-Dichlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
2-Butanone (MEK)	0.00510	U	0.0500	0.00510	mg/Kg			08/02/14 12:31	1
2-Hexanone	0.0167	U	0.0500	0.0167	mg/Kg			08/02/14 12:31	1
4-Methyl-2-pentanone (MIBK)	0.0170	U	0.0500	0.0170	mg/Kg			08/02/14 12:31	1
Acetone	0.0400	U	0.0500	0.0400	mg/Kg			08/02/14 12:31	1
Benzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Bromoform	0.000550	U	0.00200	0.000550	mg/Kg			08/02/14 12:31	1
Bromomethane	0.00120	U	0.00200	0.00120	mg/Kg			08/02/14 12:31	1
Carbon disulfide	0.00360	U	0.00500	0.00360	mg/Kg			08/02/14 12:31	1
Carbon tetrachloride	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Chlorobenzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Chlorobromomethane	0.000550	U	0.00200	0.000550	mg/Kg			08/02/14 12:31	1
Chlorodibromomethane	0.000340	U	0.00200	0.000340	mg/Kg			08/02/14 12:31	1
Chloroethane	0.00190	U	0.00500	0.00190	mg/Kg			08/02/14 12:31	1
Chloroform	0.0008108	J	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Chloromethane	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
cis-1,2-Dichloroethene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
cis-1,3-Dichloropropene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Cyclohexane	0.00330	U	0.0100	0.00330	mg/Kg			08/02/14 12:31	1
Dichlorobromomethane	0.000550	U	0.00200	0.000550	mg/Kg			08/02/14 12:31	1
Dichlorodifluoromethane	0.00100	U	0.00200	0.00100	mg/Kg			08/02/14 12:31	1
Ethylbenzene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Ethylene Dibromide	0.00100	U	0.00200	0.00100	mg/Kg			08/02/14 12:31	1
Isopropylbenzene	0.000410	U	0.00200	0.000410	mg/Kg			08/02/14 12:31	1
Methyl acetate	0.00240	U	0.0100	0.00240	mg/Kg			08/02/14 12:31	1
Methyl tert-butyl ether	0.000960	U	0.00200	0.000960	mg/Kg			08/02/14 12:31	1
Methylcyclohexane	0.00330	U	0.0100	0.00330	mg/Kg			08/02/14 12:31	1
Methylene Chloride	0.000860	U	0.0100	0.000860	mg/Kg			08/02/14 12:31	1
Styrene	0.00110	U	0.00200	0.00110	mg/Kg			08/02/14 12:31	1
Tetrachloroethene	0.000730	U	0.00200	0.000730	mg/Kg			08/02/14 12:31	1
Toluene	0.000740	U	0.00200	0.000740	mg/Kg			08/02/14 12:31	1
trans-1,2-Dichloroethene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
trans-1,3-Dichloropropene	0.000670	U	0.00200	0.000670	mg/Kg			08/02/14 12:31	1
Trichloroethene	0.000960	U	0.00200	0.000960	mg/Kg			08/02/14 12:31	1
Trichlorofluoromethane	0.00100	U	0.00200	0.00100	mg/Kg			08/02/14 12:31	1

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

Lab Sample ID: MB 490-181094/7
Matrix: Solid
Analysis Batch: 181094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00110	U	0.00200	0.00110	mg/Kg			08/02/14 12:31	1
Xylenes, Total	0.000670	U	0.00300	0.000670	mg/Kg			08/02/14 12:31	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*					*08/02/14 12:31*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/02/14 12:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/02/14 12:31*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*08/02/14 12:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/02/14 12:31*	*1*

Lab Sample ID: LCS 490-181094/3
Matrix: Solid
Analysis Batch: 181094

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0500	0.04621		mg/Kg		92	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.05005		mg/Kg		100	66 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.04560		mg/Kg		91	67 - 136
1,1,2-Trichloroethane	0.0500	0.05109		mg/Kg		102	78 - 128
1,1-Dichloroethane	0.0500	0.04379		mg/Kg		88	75 - 124
1,1-Dichloroethene	0.0500	0.04401		mg/Kg		88	75 - 131
1,2,3-Trichlorobenzene	0.0500	0.05135		mg/Kg		103	70 - 150
1,2,4-Trichlorobenzene	0.0500	0.05218		mg/Kg		104	62 - 150
1,2-Dibromo-3-Chloropropane	0.0500	0.04888		mg/Kg		98	49 - 142
1,2-Dichlorobenzene	0.0500	0.04976		mg/Kg		100	80 - 134
1,2-Dichloroethane	0.0500	0.04418		mg/Kg		88	65 - 134
1,2-Dichloropropane	0.0500	0.04595		mg/Kg		92	69 - 120
1,3-Dichlorobenzene	0.0500	0.05095		mg/Kg		102	79 - 137
1,4-Dichlorobenzene	0.0500	0.05034		mg/Kg		101	77 - 139
2-Butanone (MEK)	0.250	0.2388		mg/Kg		96	61 - 132
2-Hexanone	0.250	0.2407		mg/Kg		96	57 - 148
4-Methyl-2-pentanone (MIBK)	0.250	0.2484		mg/Kg		99	59 - 138
Acetone	0.250	0.2290		mg/Kg		92	51 - 149
Benzene	0.0500	0.04539		mg/Kg		91	75 - 127
Bromoform	0.0500	0.04594		mg/Kg		92	36 - 150
Bromomethane	0.0500	0.04343		mg/Kg		87	43 - 142
Carbon disulfide	0.0500	0.04562		mg/Kg		91	74 - 135
Carbon tetrachloride	0.0500	0.05029		mg/Kg		101	70 - 141
Chlorobenzene	0.0500	0.04872		mg/Kg		97	84 - 125
Chlorobromomethane	0.0500	0.04788		mg/Kg		96	70 - 132
Chlorodibromomethane	0.0500	0.04759		mg/Kg		95	66 - 134
Chloroethane	0.0500	0.04240		mg/Kg		85	53 - 144
Chloroform	0.0500	0.04384		mg/Kg		88	76 - 130
Chloromethane	0.0500	0.04020		mg/Kg		80	23 - 150
cis-1,2-Dichloroethene	0.0500	0.04530		mg/Kg		91	75 - 125

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

Lab Sample ID: LCS 490-181094/3
Matrix: Solid
Analysis Batch: 181094

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0500	0.05428		mg/Kg		109	73 - 148
Cyclohexane	0.0500	0.04448		mg/Kg		89	70 - 133
Dichlorobromomethane	0.0500	0.05247		mg/Kg		105	68 - 135
Dichlorodifluoromethane	0.0500	0.04426		mg/Kg		89	12 - 144
Ethylbenzene	0.0500	0.04991		mg/Kg		100	80 - 134
Ethylene Dibromide	0.0500	0.05902		mg/Kg		118	80 - 135
Isopropylbenzene	0.0500	0.05106		mg/Kg		102	80 - 150
Methyl acetate	0.250	0.2444		mg/Kg		98	11 - 170
Methyl tert-butyl ether	0.0500	0.04584		mg/Kg		92	70 - 136
Methylcyclohexane	0.0500	0.04615		mg/Kg		92	69 - 140
Methylene Chloride	0.0500	0.04370		mg/Kg		87	68 - 144
Styrene	0.0500	0.05064		mg/Kg		101	82 - 137
Tetrachloroethene	0.0500	0.05043		mg/Kg		101	78 - 140
Toluene	0.0500	0.04842		mg/Kg		97	80 - 132
trans-1,2-Dichloroethene	0.0500	0.04389		mg/Kg		88	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05006		mg/Kg		100	62 - 139
Trichloroethene	0.0500	0.04699		mg/Kg		94	77 - 127
Trichlorofluoromethane	0.0500	0.04419		mg/Kg		88	50 - 140
Vinyl chloride	0.0500	0.04416		mg/Kg		88	47 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 490-181094/4
Matrix: Solid
Analysis Batch: 181094

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.04749		mg/Kg		95	72 - 140	3	50
1,1,2,2-Tetrachloroethane	0.0500	0.05172		mg/Kg		103	66 - 134	3	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.04626		mg/Kg		93	67 - 136	1	50
1,1,2-Trichloroethane	0.0500	0.05142		mg/Kg		103	78 - 128	1	50
1,1-Dichloroethane	0.0500	0.04401		mg/Kg		88	75 - 124	0	50
1,1-Dichloroethene	0.0500	0.04499		mg/Kg		90	75 - 131	2	50
1,2,3-Trichlorobenzene	0.0500	0.05206		mg/Kg		104	70 - 150	1	50
1,2,4-Trichlorobenzene	0.0500	0.05407		mg/Kg		108	62 - 150	4	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04899		mg/Kg		98	49 - 142	0	50
1,2-Dichlorobenzene	0.0500	0.05140		mg/Kg		103	80 - 134	3	50
1,2-Dichloroethane	0.0500	0.04400		mg/Kg		88	65 - 134	0	50
1,2-Dichloropropane	0.0500	0.04721		mg/Kg		94	69 - 120	3	50
1,3-Dichlorobenzene	0.0500	0.05221		mg/Kg		104	79 - 137	2	50
1,4-Dichlorobenzene	0.0500	0.05246		mg/Kg		105	77 - 139	4	50
2-Butanone (MEK)	0.250	0.2145		mg/Kg		86	61 - 132	11	50
2-Hexanone	0.250	0.2374		mg/Kg		95	57 - 148	1	50

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

Lab Sample ID: LCSD 490-181094/4
Matrix: Solid
Analysis Batch: 181094

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	0.250	0.2447		mg/Kg		98	59 - 138	1	50
Acetone	0.250	0.2232		mg/Kg		89	51 - 149	3	50
Benzene	0.0500	0.04591		mg/Kg		92	75 - 127	1	50
Bromoform	0.0500	0.04519		mg/Kg		90	36 - 150	2	50
Bromomethane	0.0500	0.04493		mg/Kg		90	43 - 142	3	50
Carbon disulfide	0.0500	0.04667		mg/Kg		93	74 - 135	2	50
Carbon tetrachloride	0.0500	0.05107		mg/Kg		102	70 - 141	2	50
Chlorobenzene	0.0500	0.04995		mg/Kg		100	84 - 125	2	50
Chlorobromomethane	0.0500	0.04839		mg/Kg		97	70 - 132	1	50
Chlorodibromomethane	0.0500	0.04714		mg/Kg		94	66 - 134	1	50
Chloroethane	0.0500	0.04273		mg/Kg		85	53 - 144	1	50
Chloroform	0.0500	0.04164		mg/Kg		83	76 - 130	5	49
Chloromethane	0.0500	0.04125		mg/Kg		83	23 - 150	3	50
cis-1,2-Dichloroethene	0.0500	0.04518		mg/Kg		90	75 - 125	0	50
cis-1,3-Dichloropropene	0.0500	0.05481		mg/Kg		110	73 - 148	1	50
Cyclohexane	0.0500	0.04495		mg/Kg		90	70 - 133	1	50
Dichlorobromomethane	0.0500	0.05279		mg/Kg		106	68 - 135	1	50
Dichlorodifluoromethane	0.0500	0.04489		mg/Kg		90	12 - 144	1	50
Ethylbenzene	0.0500	0.05048		mg/Kg		101	80 - 134	1	50
Ethylene Dibromide	0.0500	0.05807		mg/Kg		116	80 - 135	2	50
Isopropylbenzene	0.0500	0.05197		mg/Kg		104	80 - 150	2	50
Methyl acetate	0.250	0.2225		mg/Kg		89	11 - 170	9	50
Methyl tert-butyl ether	0.0500	0.04511		mg/Kg		90	70 - 136	2	50
Methylcyclohexane	0.0500	0.04750		mg/Kg		95	69 - 140	3	50
Methylene Chloride	0.0500	0.04402		mg/Kg		88	68 - 144	1	50
Styrene	0.0500	0.05186		mg/Kg		104	82 - 137	2	50
Tetrachloroethene	0.0500	0.05086		mg/Kg		102	78 - 140	1	50
Toluene	0.0500	0.04941		mg/Kg		99	80 - 132	2	50
trans-1,2-Dichloroethene	0.0500	0.04424		mg/Kg		88	76 - 128	1	50
trans-1,3-Dichloropropene	0.0500	0.05079		mg/Kg		102	62 - 139	1	50
Trichloroethene	0.0500	0.04762		mg/Kg		95	77 - 127	1	50
Trichlorofluoromethane	0.0500	0.04522		mg/Kg		90	50 - 140	2	50
Vinyl chloride	0.0500	0.04605		mg/Kg		92	47 - 136	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: 490-58534-A-4-E MS
Matrix: Solid
Analysis Batch: 181094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.000873	U	0.0480	0.04682		mg/Kg		98	35 - 149
1,1,2,2-Tetrachloroethane	0.000949	U	0.0480	0.05584	*	mg/Kg		116	10 - 162

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

Lab Sample ID: 490-58534-A-4-E MS
Matrix: Solid
Analysis Batch: 181094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000750	U	0.0480	0.04495		mg/Kg		94	42 - 147
1,1,2-Trichloroethane	0.00133	U	0.0480	0.04978		mg/Kg		104	19 - 157
1,1-Dichloroethane	0.000636	U	0.0480	0.04239		mg/Kg		88	42 - 136
1,1-Dichloroethene	0.000541	U	0.0480	0.04311		mg/Kg		90	41 - 143
1,2,3-Trichlorobenzene	0.000361	U	0.0480	0.01382	*	mg/Kg		29	10 - 157
1,2,4-Trichlorobenzene	0.000636	U	0.0480	0.01832	*	mg/Kg		38	10 - 167
1,2-Dibromo-3-Chloropropane	0.000664	U	0.0480	0.04071	*	mg/Kg		85	10 - 147
1,2-Dichlorobenzene	0.000323	U	0.0480	0.03591	*	mg/Kg		75	10 - 160
1,2-Dichloroethane	0.000636	U	0.0480	0.04266		mg/Kg		89	28 - 138
1,2-Dichloropropane	0.000892	U	0.0480	0.04400		mg/Kg		92	20 - 146
1,3-Dichlorobenzene	0.000636	U	0.0480	0.04127	*	mg/Kg		86	10 - 162
1,4-Dichlorobenzene	0.000636	U	0.0480	0.04175	*	mg/Kg		87	11 - 159
2-Butanone (MEK)	0.00484	U	0.240	0.2202		mg/Kg		92	18 - 153
2-Hexanone	0.0158	U	0.240	0.2400		mg/Kg		100	10 - 169
4-Methyl-2-pentanone (MIBK)	0.0161	U	0.240	0.2591		mg/Kg		108	10 - 168
Acetone	0.0380	U	0.240	0.2408		mg/Kg		100	19 - 175
Benzene	0.000701	J	0.0480	0.04544		mg/Kg		93	31 - 143
Bromoform	0.000522	U	0.0480	0.03924		mg/Kg		82	10 - 165
Bromomethane	0.00114	U	0.0480	0.01723		mg/Kg		36	10 - 164
Carbon disulfide	0.00342	U	0.0480	0.04600		mg/Kg		96	32 - 144
Carbon tetrachloride	0.000636	U	0.0480	0.05026		mg/Kg		105	31 - 149
Chlorobenzene	0.000636	U	0.0480	0.04489		mg/Kg		94	25 - 152
Chlorobromomethane	0.000522	U	0.0480	0.04539		mg/Kg		95	31 - 141
Chlorodibromomethane	0.000323	U	0.0480	0.04738		mg/Kg		99	14 - 146
Chloroethane	0.00180	U	0.0480	0.03774		mg/Kg		79	10 - 151
Chloroform	0.000701	J B	0.0480	0.04394		mg/Kg		90	34 - 160
Chloromethane	0.000636	U	0.0480	0.03024		mg/Kg		63	10 - 156
cis-1,2-Dichloroethene	0.000636	U	0.0480	0.04327		mg/Kg		90	36 - 139
cis-1,3-Dichloropropene	0.000636	U	0.0480	0.06162		mg/Kg		128	15 - 166
Cyclohexane	0.00313	U	0.0480	0.04297		mg/Kg		90	32 - 158
Dichlorobromomethane	0.000522	U	0.0480	0.05653		mg/Kg		118	19 - 148
Dichlorodifluoromethane	0.000949	U	0.0480	0.04391		mg/Kg		92	10 - 143
Ethylbenzene	0.000636	U	0.0480	0.06270		mg/Kg		131	23 - 161
Ethylene Dibromide	0.000949	U	0.0480	0.05421		mg/Kg		113	18 - 156
Isopropylbenzene	0.000389	U	0.0480	0.04688		mg/Kg		98	23 - 181
Methyl acetate	0.00228	U	0.240	0.2286		mg/Kg		95	10 - 200
Methyl tert-butyl ether	0.000911	U	0.0480	0.04625		mg/Kg		96	28 - 141
Methylcyclohexane	0.00313	U	0.0480	0.04194		mg/Kg		87	29 - 167
Methylene Chloride	0.00422	J	0.0480	0.04650		mg/Kg		88	24 - 182
Styrene	0.00104	U	0.0480	0.04121		mg/Kg		86	10 - 165
Tetrachloroethene	0.000693	U	0.0480	0.04697		mg/Kg		98	33 - 161
Toluene	0.00110	J	0.0480	0.09613	*	mg/Kg		198	30 - 155
trans-1,2-Dichloroethene	0.000636	U	0.0480	0.04222		mg/Kg		88	39 - 140
trans-1,3-Dichloropropene	0.000636	U	0.0480	0.05398		mg/Kg		112	10 - 157
Trichloroethene	0.000911	U	0.0480	0.04423		mg/Kg		92	27 - 153
Trichlorofluoromethane	0.000949	U	0.0480	0.04319		mg/Kg		90	25 - 140
Vinyl chloride	0.00104	U	0.0480	0.04204		mg/Kg		88	20 - 141

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

Lab Sample ID: 490-58534-A-4-E MS
Matrix: Solid
Analysis Batch: 181094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	126	*	70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	113		70 - 130

Lab Sample ID: 490-58534-A-4-F MSD
Matrix: Solid
Analysis Batch: 181094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 181125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.000873	U	0.0446	0.03717		mg/Kg		83	35 - 149	23	50
1,1,2,2-Tetrachloroethane	0.000949	U	0.0446	0.04289	*	mg/Kg		96	10 - 162	26	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000750	U	0.0446	0.03511		mg/Kg		79	42 - 147	25	50
1,1,2-Trichloroethane	0.00133	U	0.0446	0.03830		mg/Kg		86	19 - 157	26	50
1,1-Dichloroethane	0.000636	U	0.0446	0.03327		mg/Kg		75	42 - 136	24	50
1,1-Dichloroethene	0.000541	U	0.0446	0.03378		mg/Kg		76	41 - 143	24	50
1,2,3-Trichlorobenzene	0.000361	U	0.0446	0.01010	*	mg/Kg		23	10 - 157	31	50
1,2,4-Trichlorobenzene	0.000636	U	0.0446	0.01303	*	mg/Kg		29	10 - 167	34	50
1,2-Dibromo-3-Chloropropane	0.000664	U	0.0446	0.03088	*	mg/Kg		69	10 - 147	27	50
1,2-Dichlorobenzene	0.000323	U	0.0446	0.02652	*	mg/Kg		60	10 - 160	30	50
1,2-Dichloroethane	0.000636	U	0.0446	0.03354		mg/Kg		75	28 - 138	24	50
1,2-Dichloropropane	0.000892	U	0.0446	0.03434		mg/Kg		77	20 - 146	25	50
1,3-Dichlorobenzene	0.000636	U	0.0446	0.03090	*	mg/Kg		69	10 - 162	29	50
1,4-Dichlorobenzene	0.000636	U	0.0446	0.03037	*	mg/Kg		68	11 - 159	32	50
2-Butanone (MEK)	0.00484	U	0.223	0.1913		mg/Kg		86	18 - 153	14	50
2-Hexanone	0.0158	U	0.223	0.1941		mg/Kg		87	10 - 169	21	50
4-Methyl-2-pentanone (MIBK)	0.0161	U	0.223	0.2119		mg/Kg		95	10 - 168	20	50
Acetone	0.0380	U	0.223	0.2306		mg/Kg		103	19 - 175	4	50
Benzene	0.000701	J	0.0446	0.03559		mg/Kg		78	31 - 143	24	50
Bromoform	0.000522	U	0.0446	0.03040		mg/Kg		68	10 - 165	25	50
Bromomethane	0.00114	U	0.0446	0.02047		mg/Kg		46	10 - 164	17	50
Carbon disulfide	0.00342	U	0.0446	0.03685		mg/Kg		83	32 - 144	22	50
Carbon tetrachloride	0.000636	U	0.0446	0.03971		mg/Kg		89	31 - 149	23	50
Chlorobenzene	0.000636	U	0.0446	0.03481		mg/Kg		78	25 - 152	25	50
Chlorobromomethane	0.000522	U	0.0446	0.03660		mg/Kg		82	31 - 141	21	50
Chlorodibromomethane	0.000323	U	0.0446	0.03720		mg/Kg		83	14 - 146	24	50
Chloroethane	0.00180	U	0.0446	0.03043		mg/Kg		68	10 - 151	21	50
Chloroform	0.000701	J B	0.0446	0.03450		mg/Kg		76	34 - 160	24	49
Chloromethane	0.000636	U	0.0446	0.02469		mg/Kg		55	10 - 156	20	50
cis-1,2-Dichloroethene	0.000636	U	0.0446	0.03434		mg/Kg		77	36 - 139	23	50
cis-1,3-Dichloropropene	0.000636	U	0.0446	0.04916		mg/Kg		110	15 - 166	23	50
Cyclohexane	0.00313	U	0.0446	0.03232		mg/Kg		73	32 - 158	28	550
Dichlorobromomethane	0.000522	U	0.0446	0.04329		mg/Kg		97	19 - 148	27	50
Dichlorodifluoromethane	0.000949	U	0.0446	0.03484		mg/Kg		78	10 - 143	23	50
Ethylbenzene	0.000636	U	0.0446	0.04151		mg/Kg		93	23 - 161	41	50
Ethylene Dibromide	0.000949	U	0.0446	0.04331		mg/Kg		97	18 - 156	22	50
Isopropylbenzene	0.000389	U	0.0446	0.03673		mg/Kg		82	23 - 181	24	50

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

Lab Sample ID: 490-58534-A-4-F MSD
Matrix: Solid
Analysis Batch: 181094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 181125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl acetate	0.00228	U	0.223	0.1840		mg/Kg		83	10 - 200	22	50
Methyl tert-butyl ether	0.000911	U	0.0446	0.03640		mg/Kg		82	28 - 141	24	50
Methylcyclohexane	0.00313	U	0.0446	0.03218		mg/Kg		72	29 - 167	26	50
Methylene Chloride	0.00422	J	0.0446	0.03750		mg/Kg		75	24 - 182	21	50
Styrene	0.00104	U	0.0446	0.03134		mg/Kg		70	10 - 165	27	50
Tetrachloroethene	0.000693	U	0.0446	0.03686		mg/Kg		83	33 - 161	24	50
Toluene	0.00110	J	0.0446	0.05460	*	mg/Kg		120	30 - 155	55	50
trans-1,2-Dichloroethene	0.000636	U	0.0446	0.03345		mg/Kg		75	39 - 140	23	50
trans-1,3-Dichloropropene	0.000636	U	0.0446	0.04273		mg/Kg		96	10 - 157	23	50
Trichloroethene	0.000911	U	0.0446	0.03424		mg/Kg		77	27 - 153	25	50
Trichlorofluoromethane	0.000949	U	0.0446	0.03420		mg/Kg		77	25 - 140	23	50
Vinyl chloride	0.00104	U	0.0446	0.03350		mg/Kg		75	20 - 141	23	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*125*	*	*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*

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

Lab Sample ID: MB 490-181341/1-A
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.258	U	1.67	0.258	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,3,4,6-Tetrachlorophenol	0.169	U	0.333	0.169	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4,5-Trichlorophenol	0.0170	U	0.833	0.0170	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4,6-Trichlorophenol	0.0250	U	0.333	0.0250	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4-Dichlorophenol	0.0170	U	0.333	0.0170	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4-Dimethylphenol	0.192	U	0.333	0.192	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4-Dinitrophenol	0.110	U	0.333	0.110	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,4-Dinitrotoluene	0.00900	U	0.333	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2,6-Dinitrotoluene	0.0310	U	0.333	0.0310	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Chloronaphthalene	0.0170	U	0.333	0.0170	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Chlorophenol	0.0150	U	0.333	0.0150	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Methylnaphthalene	0.0160	U	0.0670	0.0160	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Nitroaniline	0.0180	U	0.833	0.0180	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Methylphenol	0.0930	U	0.333	0.0930	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
2-Nitrophenol	0.0130	U	0.333	0.0130	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
3 & 4 Methylphenol	0.0200	U	0.333	0.0200	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
3,3'-Dichlorobenzidine	0.133	U	0.667	0.133	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
3-Nitroaniline	0.148	U	0.833	0.148	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4,6-Dinitro-2-methylphenol	0.103	U	0.333	0.103	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4-Bromophenyl phenyl ether	0.0170	U	0.333	0.0170	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4-Chloro-3-methylphenol	0.0160	U	0.333	0.0160	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4-Chloroaniline	0.166	U	0.333	0.166	mg/Kg		08/04/14 11:25	08/04/14 16:39	1

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

Lab Sample ID: MB 490-181341/1-A
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	0.0240	U	0.333	0.0240	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4-Nitroaniline	0.0300	U	0.833	0.0300	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
4-Nitrophenol	0.0150	U	0.333	0.0150	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Acenaphthene	0.0100	U	0.0670	0.0100	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Acenaphthylene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Acetophenone	0.0700	U	0.333	0.0700	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Anthracene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Atrazine	0.167	U	0.333	0.167	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzo[a]anthracene	0.0150	U	0.0670	0.0150	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzo[a]pyrene	0.0120	U	0.0670	0.0120	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzo[b]fluoranthene	0.0120	U	0.0670	0.0120	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzo[g,h,i]perylene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzo[k]fluoranthene	0.0140	U	0.0670	0.0140	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Benzaldehyde	0.286	U	1.67	0.286	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Bis(2-chloroethoxy)methane	0.0120	U	0.333	0.0120	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Biphenyl	0.104	U	0.333	0.104	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Bis(2-chloroethyl)ether	0.0200	U	0.333	0.0200	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
bis (2-chloroisopropyl) ether	0.134	U	0.333	0.134	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Butyl benzyl phthalate	0.0160	U	0.333	0.0160	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Bis(2-ethylhexyl) phthalate	0.0130	U	0.333	0.0130	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Carbazole	0.00700	U	0.333	0.00700	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Caprolactam	0.108	U	0.333	0.108	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Chrysene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Dibenz(a,h)anthracene	0.00700	U	0.0670	0.00700	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Dibenzofuran	0.0130	U	0.333	0.0130	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Diethyl phthalate	0.0140	U	0.333	0.0140	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Dimethyl phthalate	0.00800	U	1.67	0.00800	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Di-n-butyl phthalate	0.0130	U	0.333	0.0130	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Fluorene	0.0120	U	0.0670	0.0120	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Di-n-octyl phthalate	0.0130	U	0.333	0.0130	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Hexachlorobenzene	0.0290	U	0.333	0.0290	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Hexachlorobutadiene	0.0700	U	0.333	0.0700	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Hexachlorocyclopentadiene	0.0160	U	0.333	0.0160	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Hexachloroethane	0.0200	U	0.333	0.0200	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Indeno[1,2,3-cd]pyrene	0.0100	U	0.0670	0.0100	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Isophorone	0.0590	U	0.333	0.0590	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Naphthalene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Nitrobenzene	0.0170	U	0.333	0.0170	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
N-Nitrosodi-n-propylamine	0.0210	U	0.333	0.0210	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
n-Nitrosodiphenylamine(as diphenylamine)	0.0160	U	0.333	0.0160	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Pentachlorophenol	0.125	U	0.833	0.125	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Phenanthrene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Phenol	0.0140	U	0.333	0.0140	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Pyrene	0.0120	U	0.0670	0.0120	mg/Kg		08/04/14 11:25	08/04/14 16:39	1
Fluoranthene	0.00900	U	0.0670	0.00900	mg/Kg		08/04/14 11:25	08/04/14 16:39	1

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

Lab Sample ID: MB 490-181341/1-A
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181341

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 120	08/04/14 11:25	08/04/14 16:39	1
2-Fluorobiphenyl (Surr)	55		29 - 120	08/04/14 11:25	08/04/14 16:39	1
2-Fluorophenol (Surr)	53		10 - 120	08/04/14 11:25	08/04/14 16:39	1
Nitrobenzene-d5 (Surr)	54		27 - 120	08/04/14 11:25	08/04/14 16:39	1
Phenol-d5 (Surr)	56		10 - 120	08/04/14 11:25	08/04/14 16:39	1
Terphenyl-d14 (Surr)	79		13 - 120	08/04/14 11:25	08/04/14 16:39	1

Lab Sample ID: LCS 490-181341/2-A
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9634	J	mg/Kg		58	41 - 120
2,3,4,6-Tetrachlorophenol	1.67	1.088		mg/Kg		65	44 - 120
2,4,5-Trichlorophenol	1.67	1.111		mg/Kg		67	39 - 120
2,4,6-Trichlorophenol	1.67	1.084		mg/Kg		65	39 - 120
2,4-Dichlorophenol	1.67	0.9756		mg/Kg		59	32 - 120
2,4-Dimethylphenol	1.67	0.9970		mg/Kg		60	32 - 120
2,4-Dinitrophenol	3.33	1.123		mg/Kg		34	10 - 142
2,4-Dinitrotoluene	1.67	1.105		mg/Kg		66	43 - 120
2,6-Dinitrotoluene	1.67	1.089		mg/Kg		65	43 - 120
2-Chloronaphthalene	1.67	0.9964		mg/Kg		60	34 - 120
2-Chlorophenol	1.67	0.8909		mg/Kg		53	32 - 120
2-Methylnaphthalene	1.67	0.9692		mg/Kg		58	28 - 120
2-Nitroaniline	1.67	1.106		mg/Kg		66	40 - 120
2-Methylphenol	1.67	0.9979		mg/Kg		60	36 - 120
2-Nitrophenol	1.67	0.9909		mg/Kg		59	29 - 120
3 & 4 Methylphenol	1.67	1.005		mg/Kg		60	37 - 120
3,3'-Dichlorobenzidine	1.67	1.116		mg/Kg		67	39 - 120
3-Nitroaniline	1.67	1.087		mg/Kg		65	42 - 120
4,6-Dinitro-2-methylphenol	3.33	1.792		mg/Kg		54	27 - 134
4-Bromophenyl phenyl ether	1.67	1.093		mg/Kg		66	40 - 120
4-Chloro-3-methylphenol	1.67	1.040		mg/Kg		62	38 - 120
4-Chloroaniline	1.67	1.036		mg/Kg		62	35 - 120
4-Chlorophenyl phenyl ether	1.67	1.034		mg/Kg		62	42 - 120
4-Nitroaniline	1.67	1.097		mg/Kg		66	43 - 120
4-Nitrophenol	3.33	2.150		mg/Kg		65	32 - 136
Acenaphthene	1.67	1.049		mg/Kg		63	36 - 120
Acenaphthylene	1.67	1.055		mg/Kg		63	38 - 120
Acetophenone	1.67	0.9286		mg/Kg		56	30 - 120
Anthracene	1.67	1.112		mg/Kg		67	46 - 124
Atrazine	1.67	1.376		mg/Kg		83	41 - 120
Benzo[a]anthracene	1.67	1.088		mg/Kg		65	45 - 120
Benzo[a]pyrene	1.67	1.099		mg/Kg		66	45 - 120
Benzo[b]fluoranthene	1.67	1.140		mg/Kg		68	42 - 120
Benzo[g,h,i]perylene	1.67	1.045		mg/Kg		63	38 - 120
Benzo[k]fluoranthene	1.67	1.024		mg/Kg		61	42 - 120
Benzaldehyde	1.67	0.286	U	mg/Kg		11	10 - 150

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

Lab Sample ID: LCS 490-181341/2-A
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1.67	0.9460		mg/Kg		57	32 - 120
Biphenyl	1.67	0.9979		mg/Kg		60	15 - 120
Bis(2-chloroethyl)ether	1.67	0.8724		mg/Kg		52	31 - 120
bis (2-chloroisopropyl) ether	1.67	0.9099		mg/Kg		55	32 - 120
Butyl benzyl phthalate	1.67	1.168		mg/Kg		70	43 - 133
Bis(2-ethylhexyl) phthalate	1.67	1.243		mg/Kg		75	43 - 120
Carbazole	1.67	1.047		mg/Kg		63	44 - 120
Caprolactam	1.67	1.000		mg/Kg		60	18 - 138
Chrysene	1.67	1.111		mg/Kg		67	43 - 120
Dibenz(a,h)anthracene	1.67	1.065		mg/Kg		64	32 - 128
Dibenzofuran	1.67	1.028		mg/Kg		62	41 - 120
Diethyl phthalate	1.67	1.055		mg/Kg		63	41 - 122
Dimethyl phthalate	1.67	1.060	J	mg/Kg		64	55 - 120
Di-n-butyl phthalate	1.67	1.119		mg/Kg		67	46 - 127
Fluorene	1.67	1.068		mg/Kg		64	42 - 120
Di-n-octyl phthalate	1.67	1.297		mg/Kg		78	40 - 130
Hexachlorobenzene	1.67	1.077		mg/Kg		65	44 - 120
Hexachlorobutadiene	1.67	0.8902		mg/Kg		53	31 - 120
Hexachlorocyclopentadiene	1.67	0.6541		mg/Kg		39	24 - 120
Hexachloroethane	1.67	0.8549		mg/Kg		51	33 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.032		mg/Kg		62	41 - 121
Isophorone	1.67	1.038		mg/Kg		62	33 - 120
Naphthalene	1.67	0.9293		mg/Kg		56	32 - 120
Nitrobenzene	1.67	0.9408		mg/Kg		56	26 - 120
N-Nitrosodi-n-propylamine	1.67	0.9752		mg/Kg		59	35 - 120
n-Nitrosodiphenylamine(as diphenylamine)	1.43	1.075		mg/Kg		75	52 - 140
Pentachlorophenol	3.33	2.130		mg/Kg		64	44 - 134
Phenanthrene	1.67	1.073		mg/Kg		64	45 - 120
Phenol	1.67	1.001		mg/Kg		60	30 - 120
Pyrene	1.67	1.140		mg/Kg		68	43 - 120
Fluoranthene	1.67	1.077		mg/Kg		65	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*0*	*	*10 - 120*
2-Fluorobiphenyl (Surr)	*0*	*	*29 - 120*
2-Fluorophenol (Surr)	*0*	*	*10 - 120*
Nitrobenzene-d5 (Surr)	*0*	*	*27 - 120*
Phenol-d5 (Surr)	*2*	*	*10 - 120*
Terphenyl-d14 (Surr)	*0*	*	*13 - 120*

Lab Sample ID: 490-58378-F-1-B MS
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	0.258	U	1.93	1.497	J	mg/Kg	☼	77	10 - 200
2,3,4,6-Tetrachlorophenol	0.169	U	1.93	1.584		mg/Kg	☼	82	10 - 200

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

Lab Sample ID: 490-58378-F-1-B MS
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.0170	U	1.93	1.623		mg/Kg	☼	84	27 - 120
2,4,6-Trichlorophenol	0.0250	U	1.93	1.598		mg/Kg	☼	83	24 - 122
2,4-Dichlorophenol	0.0170	U	1.93	1.502		mg/Kg	☼	78	17 - 120
2,4-Dimethylphenol	0.192	U	1.93	1.571		mg/Kg	☼	81	17 - 120
2,4-Dinitrophenol	0.110	U	3.87	1.610		mg/Kg	☼	42	10 - 150
2,4-Dinitrotoluene	0.00899	U	1.93	1.594		mg/Kg	☼	82	24 - 121
2,6-Dinitrotoluene	0.0310	U	1.93	1.592		mg/Kg	☼	82	24 - 120
2-Chloronaphthalene	0.0170	U	1.93	1.476		mg/Kg	☼	76	24 - 120
2-Chlorophenol	0.0150	U	1.93	1.415		mg/Kg	☼	73	25 - 120
2-Methylnaphthalene	0.0160	U	1.93	1.470		mg/Kg	☼	76	13 - 120
2-Nitroaniline	0.0180	U	1.93	1.586		mg/Kg	☼	82	31 - 120
2-Methylphenol	0.0929	U	1.93	1.539		mg/Kg	☼	80	23 - 120
2-Nitrophenol	0.0130	U	1.93	1.571		mg/Kg	☼	81	23 - 120
3 & 4 Methylphenol	0.0200	U	1.93	1.554		mg/Kg	☼	80	19 - 120
3,3'-Dichlorobenzidine	0.133	U	1.93	1.413		mg/Kg	☼	73	10 - 120
3-Nitroaniline	0.148	U	1.93	1.541		mg/Kg	☼	80	31 - 120
4,6-Dinitro-2-methylphenol	0.103	U	3.87	2.076		mg/Kg	☼	54	10 - 134
4-Bromophenyl phenyl ether	0.0170	U	1.93	1.571		mg/Kg	☼	81	31 - 120
4-Chloro-3-methylphenol	0.0160	U	1.93	1.574		mg/Kg	☼	81	21 - 120
4-Chloroaniline	0.166	U	1.93	1.562		mg/Kg	☼	81	26 - 120
4-Chlorophenyl phenyl ether	0.0240	U	1.93	1.485		mg/Kg	☼	77	26 - 120
4-Nitroaniline	0.0300	U	1.93	1.595		mg/Kg	☼	82	28 - 120
4-Nitrophenol	0.0150	U	3.87	3.019		mg/Kg	☼	78	16 - 139
Acenaphthene	0.00999	U	1.93	1.529		mg/Kg	☼	79	19 - 120
Acenaphthylene	0.00899	U	1.93	1.543		mg/Kg	☼	80	25 - 120
Acetophenone	0.0699	U	1.93	1.431		mg/Kg	☼	74	10 - 200
Anthracene	0.0607	J	1.93	1.670		mg/Kg	☼	83	28 - 125
Atrazine	0.167	U	1.93	2.038		mg/Kg	☼	105	10 - 200
Benzo[a]anthracene	0.371		1.93	1.890		mg/Kg	☼	79	23 - 120
Benzo[a]pyrene	0.354		1.93	1.823		mg/Kg	☼	76	15 - 128
Benzo[b]fluoranthene	0.483		1.93	1.894		mg/Kg	☼	73	12 - 133
Benzo[g,h,i]perylene	0.202		1.93	1.651		mg/Kg	☼	75	22 - 120
Benzo[k]fluoranthene	0.208		1.93	1.704		mg/Kg	☼	77	28 - 120
Benzaldehyde	0.286	U	1.93	0.4312	J	mg/Kg	☼	22	10 - 200
Bis(2-chloroethoxy)methane	0.0120	U	1.93	1.479		mg/Kg	☼	76	24 - 120
Biphenyl	0.104	U	1.93	1.513		mg/Kg	☼	78	10 - 200
Bis(2-chloroethyl)ether	0.0200	U	1.93	1.402		mg/Kg	☼	72	22 - 120
bis (2-chloroisopropyl) ether	0.134	U	1.93	1.414		mg/Kg	☼	73	20 - 120
Butyl benzyl phthalate	0.0160	U	1.93	1.765		mg/Kg	☼	91	24 - 133
Bis(2-ethylhexyl) phthalate	0.0130	U	1.93	1.806		mg/Kg	☼	93	26 - 120
Carbazole	0.0338	J	1.93	1.537		mg/Kg	☼	78	25 - 123
Caprolactam	0.108	U	1.93	1.210		mg/Kg	☼	63	10 - 199
Chrysene	0.374		1.93	1.854		mg/Kg	☼	76	20 - 120
Dibenz(a,h)anthracene	0.0539	J	1.93	1.625		mg/Kg	☼	81	12 - 128
Dibenzofuran	0.0130	U	1.93	1.481		mg/Kg	☼	77	21 - 120
Diethyl phthalate	0.0140	U	1.93	1.518		mg/Kg	☼	78	29 - 122
Dimethyl phthalate	0.00799	U	1.93	1.558	J	mg/Kg	☼	81	30 - 120
Di-n-butyl phthalate	0.0130	U	1.93	1.627		mg/Kg	☼	84	29 - 126

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

Lab Sample ID: 490-58378-F-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181346 — **Prep Batch: 181341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	0.0120	U	1.93	1.547		mg/Kg	☼	80	20 - 120
Di-n-octyl phthalate	0.0130	U	1.93	1.969		mg/Kg	☼	102	27 - 130
Hexachlorobenzene	0.0290	U	1.93	1.541		mg/Kg	☼	80	25 - 120
Hexachlorobutadiene	0.0699	U	1.93	1.424		mg/Kg	☼	74	10 - 120
Hexachlorocyclopentadiene	0.0160	U	1.93	1.170		mg/Kg	☼	60	10 - 120
Hexachloroethane	0.0200	U	1.93	1.393		mg/Kg	☼	72	10 - 120
Indeno[1,2,3-cd]pyrene	0.201		1.93	1.641		mg/Kg	☼	74	22 - 121
Isophorone	0.0589	U	1.93	1.574		mg/Kg	☼	81	24 - 120
Naphthalene	0.00899	U	1.93	1.457		mg/Kg	☼	75	10 - 120
Nitrobenzene	0.0170	U	1.93	1.474		mg/Kg	☼	76	19 - 120
N-Nitrosodi-n-propylamine	0.0210	U	1.93	1.490		mg/Kg	☼	77	24 - 120
n-Nitrosodiphenylamine(as diphenylamine)	0.0160	U	1.65	1.533		mg/Kg	☼	93	26 - 150
Pentachlorophenol	0.125	U	3.87	3.201		mg/Kg	☼	83	19 - 145
Phenanthrene	0.200		1.93	1.787		mg/Kg	☼	82	21 - 122
Phenol	0.0140	U	1.93	1.573		mg/Kg	☼	81	15 - 120
Pyrene	0.587		1.93	2.175		mg/Kg	☼	82	20 - 123
Fluoranthene	0.657		1.93	2.124		mg/Kg	☼	76	10 - 143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*0*	*	*10 - 120*
2-Fluorobiphenyl (Surr)	*0*	*	*29 - 120*
2-Fluorophenol (Surr)	*0*	*	*10 - 120*
Nitrobenzene-d5 (Surr)	*0*	*	*27 - 120*
Phenol-d5 (Surr)	*0*	*	*10 - 120*
Terphenyl-d14 (Surr)	*0*	*	*13 - 120*

Lab Sample ID: 490-58378-F-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181346 — **Prep Batch: 181341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	0.258	U	1.96	0.9732	J	mg/Kg	☼	50	10 - 200	42	50
2,3,4,6-Tetrachlorophenol	0.169	U	1.96	1.054		mg/Kg	☼	54	10 - 200	40	50
2,4,5-Trichlorophenol	0.0170	U	1.96	1.071		mg/Kg	☼	55	27 - 120	41	50
2,4,6-Trichlorophenol	0.0250	U	1.96	1.087		mg/Kg	☼	55	24 - 122	38	50
2,4-Dichlorophenol	0.0170	U	1.96	0.9781		mg/Kg	☼	50	17 - 120	42	50
2,4-Dimethylphenol	0.192	U	1.96	1.038		mg/Kg	☼	53	17 - 120	41	50
2,4-Dinitrophenol	0.110	U	3.92	0.4918	*	mg/Kg	☼	13	10 - 150	106	50
2,4-Dinitrotoluene	0.00899	U	1.96	1.051		mg/Kg	☼	54	24 - 121	41	50
2,6-Dinitrotoluene	0.0310	U	1.96	1.060		mg/Kg	☼	54	24 - 120	40	50
2-Chloronaphthalene	0.0170	U	1.96	0.9743		mg/Kg	☼	50	24 - 120	41	50
2-Chlorophenol	0.0150	U	1.96	0.9411		mg/Kg	☼	48	25 - 120	40	50
2-Methylnaphthalene	0.0160	U	1.96	0.9469		mg/Kg	☼	48	13 - 120	43	50
2-Nitroaniline	0.0180	U	1.96	1.084		mg/Kg	☼	55	31 - 120	38	50
2-Methylphenol	0.0929	U	1.96	1.026		mg/Kg	☼	52	23 - 120	40	50
2-Nitrophenol	0.0130	U	1.96	1.024		mg/Kg	☼	52	23 - 120	42	50
3 & 4 Methylphenol	0.0200	U	1.96	1.030		mg/Kg	☼	52	19 - 120	41	50

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

Lab Sample ID: 490-58378-F-1-C MSD
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	0.133	U	1.96	0.9447		mg/Kg	☼	48	10 - 120	40	50
3-Nitroaniline	0.148	U	1.96	1.068		mg/Kg	☼	54	31 - 120	36	49
4,6-Dinitro-2-methylphenol	0.103	U	3.92	0.9320	*	mg/Kg	☼	24	10 - 134	76	50
4-Bromophenyl phenyl ether	0.0170	U	1.96	1.068	*	mg/Kg	☼	54	31 - 120	38	37
4-Chloro-3-methylphenol	0.0160	U	1.96	1.052		mg/Kg	☼	54	21 - 120	40	49
4-Chloroaniline	0.166	U	1.96	1.038		mg/Kg	☼	53	26 - 120	40	50
4-Chlorophenyl phenyl ether	0.0240	U	1.96	1.002		mg/Kg	☼	51	26 - 120	39	50
4-Nitroaniline	0.0300	U	1.96	1.079		mg/Kg	☼	55	28 - 120	39	49
4-Nitrophenol	0.0150	U	3.92	1.842	*	mg/Kg	☼	47	16 - 139	48	45
Acenaphthene	0.00999	U	1.96	1.016		mg/Kg	☼	52	19 - 120	40	50
Acenaphthylene	0.00899	U	1.96	1.152		mg/Kg	☼	59	25 - 120	29	50
Acetophenone	0.0699	U	1.96	0.9375		mg/Kg	☼	48	10 - 200	42	50
Anthracene	0.0607	J	1.96	1.252		mg/Kg	☼	61	28 - 125	29	49
Atrazine	0.167	U	1.96	1.369		mg/Kg	☼	70	10 - 200	39	50
Benzo[a]anthracene	0.371		1.96	1.887		mg/Kg	☼	77	23 - 120	0	50
Benzo[a]pyrene	0.354		1.96	2.078		mg/Kg	☼	88	15 - 128	13	50
Benzo[b]fluoranthene	0.483		1.96	2.360		mg/Kg	☼	96	12 - 133	22	50
Benzo[g,h,i]perylene	0.202		1.96	1.618		mg/Kg	☼	72	22 - 120	2	50
Benzo[k]fluoranthene	0.208		1.96	1.556		mg/Kg	☼	69	28 - 120	9	45
Benzaldehyde	0.286	U	1.96	0.337	U *	mg/Kg	☼	0	10 - 200	NC	50
Bis(2-chloroethoxy)methane	0.0120	U	1.96	0.9415		mg/Kg	☼	48	24 - 120	44	50
Biphenyl	0.104	U	1.96	0.9909		mg/Kg	☼	51	10 - 200	42	50
Bis(2-chloroethyl)ether	0.0200	U	1.96	0.9174		mg/Kg	☼	47	22 - 120	42	50
bis (2-chloroisopropyl) ether	0.134	U	1.96	0.9060		mg/Kg	☼	46	20 - 120	44	50
Butyl benzyl phthalate	0.0160	U	1.96	1.187		mg/Kg	☼	61	24 - 133	39	50
Bis(2-ethylhexyl) phthalate	0.0130	U	1.96	1.212		mg/Kg	☼	62	26 - 120	39	50
Carbazole	0.0338	J	1.96	1.082		mg/Kg	☼	53	25 - 123	35	46
Caprolactam	0.108	U	1.96	0.8627		mg/Kg	☼	44	10 - 199	33	50
Chrysene	0.374		1.96	1.951		mg/Kg	☼	80	20 - 120	5	49
Dibenz(a,h)anthracene	0.0539	J	1.96	1.210		mg/Kg	☼	59	12 - 128	29	50
Dibenzofuran	0.0130	U	1.96	0.9982		mg/Kg	☼	51	21 - 120	39	50
Diethyl phthalate	0.0140	U	1.96	1.016		mg/Kg	☼	52	29 - 122	40	45
Dimethyl phthalate	0.00799	U	1.96	1.055	J	mg/Kg	☼	54	30 - 120	38	46
Di-n-butyl phthalate	0.0130	U	1.96	1.102		mg/Kg	☼	56	29 - 126	38	49
Fluorene	0.0120	U	1.96	1.068		mg/Kg	☼	54	20 - 120	37	50
Di-n-octyl phthalate	0.0130	U	1.96	1.287		mg/Kg	☼	66	27 - 130	42	50
Hexachlorobenzene	0.0290	U	1.96	1.033		mg/Kg	☼	53	25 - 120	39	50
Hexachlorobutadiene	0.0699	U	1.96	0.8982		mg/Kg	☼	46	10 - 120	45	50
Hexachlorocyclopentadiene	0.0160	U	1.96	0.5942	*	mg/Kg	☼	30	10 - 120	65	50
Hexachloroethane	0.0200	U	1.96	0.8625		mg/Kg	☼	44	10 - 120	47	50
Indeno[1,2,3-cd]pyrene	0.201		1.96	1.607		mg/Kg	☼	72	22 - 121	2	50
Isophorone	0.0589	U	1.96	1.008		mg/Kg	☼	51	24 - 120	44	50
Naphthalene	0.00899	U	1.96	0.9384		mg/Kg	☼	48	10 - 120	43	50
Nitrobenzene	0.0170	U	1.96	0.9484		mg/Kg	☼	48	19 - 120	43	50
N-Nitrosodi-n-propylamine	0.0210	U	1.96	0.9633		mg/Kg	☼	49	24 - 120	43	50
n-Nitrosodiphenylamine(as diphenylamine)	0.0160	U	1.68	1.077		mg/Kg	☼	64	26 - 150	35	50
Pentachlorophenol	0.125	U	3.92	1.983		mg/Kg	☼	51	19 - 145	47	50

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

Lab Sample ID: 490-58378-F-1-C MSD
Matrix: Solid
Analysis Batch: 181346

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 181341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene	0.200		1.96	1.358		mg/Kg	☼	59	21 - 122	27	50
Phenol	0.0140	U	1.96	1.074		mg/Kg	☼	55	15 - 120	38	50
Pyrene	0.587		1.96	2.224		mg/Kg	☼	83	20 - 123	2	50
Fluoranthene	0.657		1.96	2.125		mg/Kg	☼	75	10 - 143	0	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*0*	*	*10 - 120*
2-Fluorobiphenyl (Surr)	*0*	*	*29 - 120*
2-Fluorophenol (Surr)	*0*	*	*10 - 120*
Nitrobenzene-d5 (Surr)	*0*	*	*27 - 120*
Phenol-d5 (Surr)	*0*	*	*10 - 120*
Terphenyl-d14 (Surr)	*0*	*	*13 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-183345/1-A
Matrix: Solid
Analysis Batch: 184518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.71	U	19.4	9.71	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Antimony	0.971	U	9.71	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Arsenic	0.874	U	1.94	0.874	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Barium	1.55	U	1.94	1.55	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Beryllium	0.388	U	0.971	0.388	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Cadmium	0.0971	U	0.971	0.0971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Calcium	97.1	U	194	97.1	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Chromium	0.583	U	0.971	0.583	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Cobalt	0.971	U	1.94	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Copper	0.971	U	1.94	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Iron	19.4	U	38.8	19.4	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Lead	0.485	U	0.971	0.485	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Magnesium	97.1	U	194	97.1	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Manganese	1.262	J	2.91	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Nickel	0.583	U	1.94	0.583	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Potassium	97.1	U	194	97.1	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Selenium	0.971	U	1.94	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Silver	0.485	U	0.971	0.485	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Sodium	97.1	U	194	97.1	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Thallium	0.971	U	1.94	0.971	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Vanadium	1.94	U	9.71	1.94	mg/Kg		08/13/14 08:38	08/16/14 22:54	1
Zinc	5.83	U	9.71	5.83	mg/Kg		08/13/14 08:38	08/16/14 22:54	1

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

Lab Sample ID: LCS 490-183345/2-A
Matrix: Solid
Analysis Batch: 184653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	777	767.8		mg/Kg		99	80 - 120
Antimony	38.8	37.20		mg/Kg		96	80 - 120
Arsenic	19.4	19.36		mg/Kg		100	80 - 120
Barium	777	776.1		mg/Kg		100	80 - 120
Beryllium	19.4	18.78		mg/Kg		97	80 - 120
Cadmium	19.4	18.45		mg/Kg		95	80 - 120
Calcium	1940	1983		mg/Kg		102	80 - 120
Chromium	77.7	76.47		mg/Kg		98	80 - 120
Cobalt	194	193.0		mg/Kg		99	80 - 120
Copper	97.1	94.41		mg/Kg		97	80 - 120
Iron	388	388.7		mg/Kg		100	80 - 120
Lead	19.4	18.39		mg/Kg		95	80 - 120
Magnesium	1940	1915		mg/Kg		99	80 - 120
Manganese	194	191.8		mg/Kg		99	80 - 120
Nickel	194	193.6		mg/Kg		100	80 - 120
Potassium	1940	1837		mg/Kg		95	80 - 120
Selenium	19.4	19.69		mg/Kg		101	80 - 120
Silver	19.4	18.08		mg/Kg		93	80 - 120
Sodium	1940	1909		mg/Kg		98	80 - 120
Thallium	19.4	18.06		mg/Kg		93	80 - 120
Vanadium	194	196.3		mg/Kg		101	80 - 120
Zinc	194	192.7		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 490-183345/3-A
Matrix: Solid
Analysis Batch: 184653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	777	768.7		mg/Kg		99	80 - 120	0	20
Antimony	38.8	37.53		mg/Kg		97	80 - 120	1	20
Arsenic	19.4	19.59		mg/Kg		101	80 - 120	1	20
Barium	777	775.7		mg/Kg		100	80 - 120	0	20
Beryllium	19.4	18.68		mg/Kg		96	80 - 120	1	20
Cadmium	19.4	18.58		mg/Kg		96	80 - 120	1	20
Calcium	1940	1981		mg/Kg		102	80 - 120	0	20
Chromium	77.7	77.42		mg/Kg		100	80 - 120	1	20
Cobalt	194	193.2		mg/Kg		99	80 - 120	0	20
Copper	97.1	94.14		mg/Kg		97	80 - 120	0	20
Iron	388	386.6		mg/Kg		100	80 - 120	1	20
Lead	19.4	18.60		mg/Kg		96	80 - 120	1	20
Magnesium	1940	1915		mg/Kg		99	80 - 120	0	20
Manganese	194	193.2		mg/Kg		100	80 - 120	1	20
Nickel	194	194.6		mg/Kg		100	80 - 120	0	20
Potassium	1940	1830		mg/Kg		94	80 - 120	0	20
Selenium	19.4	20.19		mg/Kg		104	80 - 120	3	20
Silver	19.4	18.08		mg/Kg		93	80 - 120	0	20
Sodium	1940	1908		mg/Kg		98	80 - 120	0	20
Thallium	19.4	17.92		mg/Kg		92	80 - 120	1	20

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

Lab Sample ID: LCSD 490-183345/3-A
Matrix: Solid
Analysis Batch: 184653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium			194	199.0		mg/Kg		102	80 - 120	1	20
Zinc			194	194.4		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 490-58465-D-1-B MS
Matrix: Solid
Analysis Batch: 184518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 183345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2990		904	6451	N	mg/Kg	☼	383	75 - 125
Antimony	1.18	U	45.2	63.50	N	mg/Kg	☼	140	75 - 125
Arsenic	2.90		22.6	22.60		mg/Kg	☼	87	75 - 125
Barium	70.3		904	943.7		mg/Kg	☼	97	75 - 125
Beryllium	0.472	U	22.6	20.77		mg/Kg	☼	92	75 - 125
Cadmium	0.448	J	22.6	20.65		mg/Kg	☼	89	75 - 125
Calcium	1180		2260	3559		mg/Kg	☼	105	75 - 125
Chromium	8.30		90.4	95.16		mg/Kg	☼	96	75 - 125
Cobalt	1.93	J	226	220.1		mg/Kg	☼	97	75 - 125
Copper	19.6		113	125.1		mg/Kg	☼	93	75 - 125
Iron	4280		452	5864	4	mg/Kg	☼	351	75 - 125
Lead	186		22.6	219.1	4	mg/Kg	☼	148	75 - 125
Magnesium	376		2260	2791		mg/Kg	☼	107	75 - 125
Manganese	43.4	B	226	267.1		mg/Kg	☼	99	75 - 125
Nickel	5.09		226	225.6		mg/Kg	☼	98	75 - 125
Potassium	285		2260	2504		mg/Kg	☼	98	75 - 125
Selenium	1.18	U	22.6	20.72		mg/Kg	☼	92	75 - 125
Silver	0.590	U	22.6	31.73	N	mg/Kg	☼	140	75 - 125
Sodium	392		2260	2635		mg/Kg	☼	99	75 - 125
Thallium	1.18	U	22.6	20.72		mg/Kg	☼	92	75 - 125
Vanadium	8.82	J	226	222.7		mg/Kg	☼	95	75 - 125
Zinc	170		226	362.5		mg/Kg	☼	85	75 - 125

Lab Sample ID: 490-58465-D-1-C MSD
Matrix: Solid
Analysis Batch: 184518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 183345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	2990		932	6186	N	mg/Kg	☼	343	75 - 125	4	20
Antimony	1.18	U	46.6	45.68		mg/Kg	☼	98	75 - 125	33	20
Arsenic	2.90		23.3	24.40		mg/Kg	☼	92	75 - 125	8	20
Barium	70.3		932	979.4		mg/Kg	☼	98	75 - 125	4	20
Beryllium	0.472	U	23.3	22.21		mg/Kg	☼	95	75 - 125	7	20
Cadmium	0.448	J	23.3	21.82		mg/Kg	☼	92	75 - 125	5	20
Calcium	1180		2330	3729		mg/Kg	☼	109	75 - 125	5	20
Chromium	8.30		93.2	98.54		mg/Kg	☼	97	75 - 125	3	20
Cobalt	1.93	J	233	231.4		mg/Kg	☼	98	75 - 125	5	20
Copper	19.6		117	136.8		mg/Kg	☼	101	75 - 125	9	20
Iron	4280		466	5445	4	mg/Kg	☼	251	75 - 125	7	20
Lead	186		23.3	241.0	4	mg/Kg	☼	237	75 - 125	10	20
Magnesium	376		2330	2802		mg/Kg	☼	104	75 - 125	0	20

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

Lab Sample ID: 490-58465-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 184518 — **Prep Batch: 183345**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	43.4	B	233	272.5		mg/Kg	☼	98	75 - 125	2	20
Nickel	5.09		233	234.9		mg/Kg	☼	99	75 - 125	4	20
Potassium	285		2330	2487		mg/Kg	☼	94	75 - 125	1	20
Selenium	1.18	U	23.3	22.65		mg/Kg	☼	97	75 - 125	9	20
Silver	0.590	U	23.3	22.28		mg/Kg	☼	96	75 - 125	35	20
Sodium	392		2330	2664		mg/Kg	☼	97	75 - 125	1	20
Thallium	1.18	U	23.3	21.54		mg/Kg	☼	92	75 - 125	4	20
Vanadium	8.82	J	233	232.8		mg/Kg	☼	96	75 - 125	4	20
Zinc	170		233	410.2		mg/Kg	☼	103	75 - 125	12	20

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

Lab Sample ID: MB 490-183725/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 183963 — **Prep Batch: 183725**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0298	U	0.0992	0.0298	mg/Kg		08/14/14 10:34	08/14/14 16:18	1

Lab Sample ID: LCS 490-183725/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 183963 — **Prep Batch: 183725**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.1480		mg/Kg		89	80 - 120

Lab Sample ID: LCSD 490-183725/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 183963 — **Prep Batch: 183725**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.1396		mg/Kg		84	80 - 120	6	20

Lab Sample ID: 490-58475-A-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 183963 — **Prep Batch: 183725**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0330	U	0.183	0.07810	J N	mg/Kg	☼	43	80 - 120

Lab Sample ID: 490-58475-A-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 183963 — **Prep Batch: 183725**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0330	U	0.184	0.1307	N	mg/Kg	☼	71	80 - 120	50	20

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Method: Moisture - Percent Moisture

Lab Sample ID: 490-58508-2 DU
Matrix: Soil
Analysis Batch: 181113

Client Sample ID: END-2/15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	95.2			91.8		%				4	20

GC/MS VOA

Prep Batch: 181080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58508-1	END-1/11	Total/NA	Soil	5035	
490-58508-2	END-2/15	Total/NA	Soil	5035	
490-58508-3	Trip blank	Total/NA	Soil	5035	

Analysis Batch: 181094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58508-1	END-1/11	Total/NA	Soil	8260C	181080
490-58508-2	END-2/15	Total/NA	Soil	8260C	181080
490-58508-3	Trip blank	Total/NA	Soil	8260C	181080
490-58534-A-4-E MS	Matrix Spike	Total/NA	Solid	8260C	181125
490-58534-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260C	181125
LCS 490-181094/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 490-181094/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 490-181094/7	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 181125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58534-A-4-E MS	Matrix Spike	Total/NA	Solid	5030B	
490-58534-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 181341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58378-F-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-58378-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-58508-1	END-1/11	Total/NA	Soil	3550C	
490-58508-2	END-2/15	Total/NA	Soil	3550C	
LCS 490-181341/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-181341/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 181346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58378-F-1-B MS	Matrix Spike	Total/NA	Solid	8270D	181341
490-58378-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	181341
490-58508-1	END-1/11	Total/NA	Soil	8270D	181341
490-58508-2	END-2/15	Total/NA	Soil	8270D	181341
LCS 490-181341/2-A	Lab Control Sample	Total/NA	Solid	8270D	181341
MB 490-181341/1-A	Method Blank	Total/NA	Solid	8270D	181341

Metals

Prep Batch: 183345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58465-D-1-B MS	Matrix Spike	Total/NA	Solid	3051A	
490-58465-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3051A	
490-58508-1	END-1/11	Total/NA	Soil	3051A	
490-58508-2	END-2/15	Total/NA	Soil	3051A	
LCS 490-183345/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 490-183345/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Metals (Continued)

Prep Batch: 183345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-183345/1-A	Method Blank	Total/NA	Solid	3051A	

Prep Batch: 183725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58475-A-1-H MS	Matrix Spike	Total/NA	Solid	7471B	
490-58475-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
490-58508-1	END-1/11	Total/NA	Soil	7471B	
490-58508-2	END-2/15	Total/NA	Soil	7471B	
LCS 490-183725/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 490-183725/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
MB 490-183725/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 183963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58475-A-1-H MS	Matrix Spike	Total/NA	Solid	7471B	183725
490-58475-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	183725
490-58508-1	END-1/11	Total/NA	Soil	7471B	183725
490-58508-2	END-2/15	Total/NA	Soil	7471B	183725
LCS 490-183725/2-A	Lab Control Sample	Total/NA	Solid	7471B	183725
LCSD 490-183725/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	183725
MB 490-183725/1-A	Method Blank	Total/NA	Solid	7471B	183725

Analysis Batch: 184518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58465-D-1-B MS	Matrix Spike	Total/NA	Solid	6010C	183345
490-58465-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010C	183345
490-58508-1	END-1/11	Total/NA	Soil	6010C	183345
490-58508-2	END-2/15	Total/NA	Soil	6010C	183345
MB 490-183345/1-A	Method Blank	Total/NA	Solid	6010C	183345

Analysis Batch: 184653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-183345/2-A	Lab Control Sample	Total/NA	Solid	6010C	183345
LCSD 490-183345/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	183345

General Chemistry

Analysis Batch: 181113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58508-1	END-1/11	Total/NA	Soil	Moisture	
490-58508-1 MS	END-1/11	Total/NA	Soil	Moisture	
490-58508-1 MSD	END-1/11	Total/NA	Soil	Moisture	
490-58508-2	END-2/15	Total/NA	Soil	Moisture	
490-58508-2 DU	END-2/15	Total/NA	Soil	Moisture	

Lab Chronicle

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Client Sample ID: END-1/11

Lab Sample ID: 490-58508-1

Date Collected: 07/29/14 09:30
Matrix: Soil
Date Received: 08/01/14 08:15
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.733 g	5.0 mL	181080	08/02/14 08:54	JLP	TAL NSH
Total/NA	Analysis	8260C		1	6.733 g	5.0 mL	181094	08/02/14 14:02	KKK	TAL NSH
Total/NA	Prep	3550C			32.43 g	1.00 mL	181341	08/04/14 11:26	RMS	TAL NSH
Total/NA	Analysis	8270D		1	32.43 g	1.00 mL	181346	08/04/14 19:46	BES	TAL NSH
Total/NA	Prep	3051A			0.500 g	100 mL	183345	08/13/14 08:38	JBD	TAL NSH
Total/NA	Analysis	6010C		1	0.500 g	100 mL	184518	08/17/14 00:41	DBK	TAL NSH
Total/NA	Prep	7471B			0.604 g	100 mL	183725	08/14/14 10:34	NLI	TAL NSH
Total/NA	Analysis	7471B		1	0.604 g	100 mL	183963	08/14/14 16:44	NLI	TAL NSH
Total/NA	Analysis	Moisture		1			181113	08/02/14 10:57	AJK	TAL NSH

Client Sample ID: END-2/15

Lab Sample ID: 490-58508-2

Date Collected: 07/30/14 10:00
Matrix: Soil
Date Received: 08/01/14 08:15
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.023 g	5.0 mL	181080	08/02/14 08:54	JLP	TAL NSH
Total/NA	Analysis	8260C		1	8.023 g	5.0 mL	181094	08/02/14 14:32	KKK	TAL NSH
Total/NA	Prep	3550C			32.13 g	1.00 mL	181341	08/04/14 11:26	RMS	TAL NSH
Total/NA	Analysis	8270D		1	32.13 g	1.00 mL	181346	08/04/14 20:09	BES	TAL NSH
Total/NA	Prep	3051A			0.506 g	100 mL	183345	08/13/14 08:38	JBD	TAL NSH
Total/NA	Analysis	6010C		1	0.506 g	100 mL	184518	08/17/14 00:44	DBK	TAL NSH
Total/NA	Prep	7471B			0.609 g	100 mL	183725	08/14/14 10:34	NLI	TAL NSH
Total/NA	Analysis	7471B		1	0.609 g	100 mL	183963	08/14/14 16:51	NLI	TAL NSH
Total/NA	Analysis	Moisture		1			181113	08/02/14 10:57	AJK	TAL NSH

Client Sample ID: Trip blank

Lab Sample ID: 490-58508-3

Date Collected: 07/29/14 00:01
Matrix: Soil
Date Received: 08/01/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 mL	181080	08/02/14 08:54	JLP	TAL NSH
Total/NA	Analysis	8260C		1	5.0 g	5.0 mL	181094	08/02/14 13:01	KKK	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Roux Associates, Inc.
Project/Site: 229 Homer & 351 Franklin St, Olean, NY

TestAmerica Job ID: 490-58508-1

Laboratory: TestAmerica Nashville

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	11342	03-31-15

The following analytes are included in this report, but are not certified under this certification:

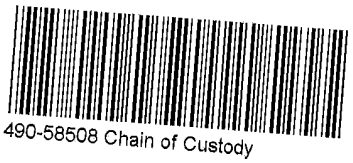
Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Soil	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C	5035	Soil	Cyclohexane
8260C	5035	Soil	Methyl acetate
8270D	3550C	Soil	Atrazine
8270D	3550C	Soil	Benzaldehyde
8270D	3550C	Soil	Biphenyl
8270D	3550C	Soil	Caprolactam

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

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Soil	1,2,3-Trichlorobenzene
8260C	5035	Soil	Methylcyclohexane
Moisture		Soil	Percent Solids

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On: 8/1/2014 @0815

1. Tracking # 0618 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 4.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AJH

I certify that I attached a label with the unique LIMS number to each container (intial) AJH

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment

Loc: 490
58508

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Roux Associates (3955) ExxonMobil
Address: 12 Gill Street, Suite 4700
City/State/Zip: Woburn, MA 01801
ExxonMobil Project Mgr: ~~Eric W. Errico~~ Dan Grapski
Consultant Project Mgr: Jason Weckbacher

Consultant Telephone Number: 781-569-4000
Fax No.:
Sampler Name: (Print) Amy Hoffmann
Sampler Signature: Amy Hoffmann

TA Account #: 450503
Invoice To: (ExxonMobil PM unless otherwise indicated)
Report To: Jim Dick
PO #: #####
PROJECT #: Exxon Olean, NY
Facility ID #
Site Address 229 Homer & 351 Franklin St ~~[illegible]~~
City, State, Zip Olean NY
Regulatory District (CA)
Major Project (AFE) E3.2006.56792.V.01

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B TCL Volatiles + TICs	8270C TCL SVOCs + TICs	6010 TAL Metals + Mercury % solids	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
END-1/11	7/29/14	0930	5	X			1	2						2					X		X	X	X				
END-2/15	7/30/14	1000	5	X			1	2						2					X		X	X	X				
trip blank																			X		X	X	X				

Comments/Special Instructions: TA NSH project # 49005538

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other
* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Relinquished by:	Date	Time	Received by:	Date	Time
Amy Hoffmann	7/31/14	1600	[signature]	8/1/14	8:15
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Page 41 of 42

8/21/2014

Login Sample Receipt Checklist

Client: Roux Associates, Inc.

Job Number: 490-58508-1

Login Number: 58508

List Source: TestAmerica Nashville

List Number: 1

Creator: Huskey, Adam

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

Waste Shipment Documentation

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000169490
2. Page 1 of: 1
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: 002232692 GBF

GENERATOR

5. Generator's Name and Mailing Address:
EXXON MOBIL ENVIRONMENTAL SVCS Attn: Eric Errico
62 BEACHAM STREET
EVERETT MA 02149
Generator's Phone: (617) 381-2952

Generator's Site Address (if different than mailing address):
FORMER OLEAN REFINERY
229 HOMER ST & FRANKLIN ST
OLEAN NY 14760

6. Transporter 1 Company Name: FRANKS VACUUM TRUCK SERVICE
U.S. EPA ID Number: NYD982792814

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

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III, (D018) NY304743	15	DM	4500 est	LB	D018	B	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY304743 - RESIDUAL MATERIAL ERG# 171 SERVICE REQUEST#
CHEMTREC Emergency Response Number (800)424-9300 WM Contract CCN24117

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: On Behalf of ExxonMobil Jason Weikbacher
Signature: On Behalf of ExxonMobil
Month: 01 Day: 13 Year: 14

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WAYNE Andrews
Signature: Dwayne Andrew
Month: 1 Day: 13 Year: 14

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

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

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

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

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

(2)

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000169490	1	(800)424-9300	002496081 GBF

GENERATOR

5. Generator's Name and Mailing Address
EXXON MOBIL ENVIRONMENTAL SVCS
38 VARICK ST
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXON MOBIL ENVIRONMENTAL SVCS
229 HOMER ST and 351 FRANKLIN ST.
OLEAN NY 14760

6. Transporter 1 Company Name: Tonawanda Tank — U.S. EPA ID Number: NYD097644801

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

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716)286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13 Waste Codes
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III, (D018) NY305122	005	DM	1600	P	D018 B
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY305122: PIPE RESIDUE
SR # 1031258
WEIGHT IN SECTION 11 IS ESTIMATED
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract CCN24117
8165150

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: on behalf of Exxon Mobil, Amy Hoffmann
Signature: on behalf of Exxon Mobil Amy Hoffmann
Month 7 Day 31 Year 14

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gumersinda Barrero
Signature: Gumersinda Barrero
Month 7 Day 31 Year 14

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

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

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

Printed/Typed Name: Richard LA BENO
Signature:
Month 08 Day 01 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	978-388-0900	201312131 CSI

GENERATOR

5. Generator's Name and Mailing Address: Exxon Mobil Environmental Service Company 52 Beacham St Everett MA 02149 Attn Eric Erico

Generator's Site Address (if different than mailing address): 229 Homer Ave 351 Franklin St. Olean NY 14760

Generator's Phone: 617-381-2952

6. Transporter 1 Company Name: CSI Environmental Services LLC — U.S. EPA ID Number: MAC 3000 14412

7. Transporter 2 Company Name: Tradebe Transportation, LLC — U.S. EPA ID Number: CTD021816889.

8. Designated Facility Name and Site Address: Tradebe Treatment and Recycling Northeast LLC, 136 Gracey Ave Meriden CT 06451 — U.S. EPA ID Number: CTD021816989

Facility's Phone: 203-238-6751

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non RCRA Waste Water, None, None	001	TT	0450	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Oily water 0516 CLHLM - Waste shall only be disposed at Exxon Mobil Approved waste site

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

Generator's/Offeror's Printed/Typed Name: Eric Runstrom — Signature: [signature] — Month: 12 Day: 16 Year: 13

On Behalf of Exxon Mobil Environmental Services LLC — On Behalf of Exxon Mobil Environmental Ser

INT'L

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

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gary Nicgouski — Signature: [signature] — Month: 12 Day: 16 Year: 13

Transporter 2 Printed/Typed Name: Joseph Roy — Signature: [signature] — Month: 12 Day: 19 Year: 13

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name: Melanie Cantormash — Signature: [signature] — Month: 12 Day: 19 Year: 13

169-BLS-C 6 10497 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 978-388-0900	4. Waste Tracking Number 20140707 2 CSI

5. Generator's Name and Mailing Address
Exxon Mobil Environmental Services
52 Beacham ST Everett MASS. 02149
Generator's Phone: 617 381-2952

Generator's Site Address (if different than mailing address)
229 Homer ST + 299 Homer ST
Olean NY 14670

6. Transporter 1 Company Name
CSI ENVIRONMENTAL SERVICES, LLC
U.S. EPA ID Number: MAC 300014412

7. Transporter 2 Company Name
TRADeBe TRANSPortation LLC
U.S. EPA ID Number: CTD 021816889

8. Designated Facility Name and Site Address
TRADeBe Treatment + Recycling N.E. LLC
136 Gracey Ave Meriden CT. 06451
Facility's Phone: 203 238 6751
U.S. EPA ID Number: CTD021816889

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON RCRA WasTe water NON. HoN	001	TT	250	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Oily WaTer 0576CLHLM - waste shall ~~only~~/Be Desposed off AT Exxon/mobil Approved Facility
H/41

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

Generator's/Offeror's Printed/Typed Name: Amy Hoffmann on behalf of ExxonMobil Environmental Services LLC
Signature: Amy Hoff on behalf of ExxonMobil Environmental Services LLC
Month 07 Day 19 Year 14

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

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dana Walka — Signature: [signature] — Month 07 Day 19 Year 14
Transporter 2 Printed/Typed Name: [signature] — Signature: [signature] — Month 7 Day 31 Year 14

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
RAY Sears
Manifest Reference Number: 7-31-14

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

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

Melanie Catermash — [signature] — 7-31-14

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Alessandratos — Signature: Alessandra [signature] — Month 07 Day 31 Year 14

169-BLS-C 6 10497 (Rev. 9/09) TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00025340

5. Generator's Name and Mailing Address
Eric W. Errico
ExxonMobil Environmental Services
52 Beacham Street
Everett, MA 02149
Generator's Phone: (617) 381-2952

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES
229 Homer ST. & 351 Franklin ST
Olean, NY 14760

6. Transporter 1 Company Name
Prill Trucking 67 Becon St Buffalo, NY 14220
U.S. EPA ID Number: NYD046765574

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NY 14030
U.S. EPA ID Number: NA
Facility's Phone: (716) 496-5192

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED MATERIAL 112009NY	1		10 Ton (est)	10 Ton (est.)	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. 112009NY-ABANDONED PIPING
Weight in Section 12 is Estimated

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Eric Runstrom (Roux Associates) Signature: E
On Behalf of ExxonMobil Environmental Services — On behalf of ExxonMobil Environmental Services
Month: 12 Day: 13 Year: 13

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PAVEL ZINKIV Signature: Pavel Zinkiv Month: 12 Day: 13 Year: 13

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

DESIGNATED FACILITY

17. Discrepancy

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

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

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

T.C.# - 403079

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

Printed/Typed Name: David Baker Signature: Month: 12 Day: 13 Year: 13

169-BLS-C 6 10497 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 403079

Customer Name ROUXASSOCIATES-112009NY ROUX
Ticket Date 12/13/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest WMNH 00025340
Destination
PO
Profile 112009NY (PIPING)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier PRICE PRICE TRUCKING
Vehicle# 9200-3020
Container
Driver
Check#
Billing # 0003058
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/13/2013 11:58:56	INBOUND	dbaker		Gross	59020 lb
Out	12/13/2013 12:41:34	OUTBOUND	TBAUDA		Tare	43200 lb
					Net	15820 lb
					Tons	7.91

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	7.91	Tons				CAT
2	FUEL-T-Fuel Surcha	100		%				CAT
3	RCR-P-Regulatory C	100		%				CAT
4	EVFt-P-Standard En	100		%				CAT
5	TPF-TRANSPORTATION	100	1	Load				CAT

Total Fees
Total Ticket

Driver's Signature _____ 3D6-1550

403WM

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NA
2. Page 1 of: 1
3. Emergency Response Phone: (800)424-9300
4. Waste Tracking Number: WMNH00025340

GENERATOR

5. Generator's Name and Mailing Address: Eric W. Errico
ExxonMobil Environmental Services
52 Beacham Street
Everett, MA 02149
Generator's Phone: (617)381-2952

Generator's Site Address (if different than mailing address): ExxonMobil Environmental Services
229 Homer ST. & 351 Franklin ST.
Olean, NY 14760

6. Transporter 1 Company Name: Price Trucking Corp. 67 Becon ST. Buffalo, NY 14220
U.S. EPA ID Number: NYD046765574

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

8. Designated Facility Name and Site Address: WM of New York at Chaffee Landfill
10860 OLEAN ROAD
Chaffee, NY 14030
Facility's Phone: (716)469-5192
U.S. EPA ID Number: NA

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED MATERIAL 112009NY	1		10 (est.)	Ton	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

1. 112009NY - ABANDONED PIPING
- Weight in Section 11 is Estimated

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Eric Runstrom on Behalf of ExxonMobil Environmental Services
Signature: on Behalf of ExxonMobil Environmental Services
Month: 12 Day: 13 Year: 13

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PAVEL Zinkiv
Signature:
Month: 12 Day: 13 Year: 13

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

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

405109

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

Printed/Typed Name:
Signature:
Month: Day: Year: 12/13/13

169-BLS-C 6 10497 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 403609

Customer Name ROUXASSOCIATES-112009NY ROUX
Ticket Date 12/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route PERMITTED FOR 101,600
State Waste Code
Manifest WMNH00025340
Destination
PO
Profile 112009NY (PIPING)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier PRICE PRICE TRUCKING
Vehicle# 9200
Container
Driver
Check#
Billing # 0003058
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	12/23/2013 12:29:55	INBOUND	SUSAN		Gross	57580 lb
Out	12/23/2013 13:08:36	OUTBOUND	SUSAN		Tare	41540 lb
					Net	16040 lb
					Tons	8.02

Comments 229 HOMER ST. & 351 FRANKLIN ST.

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	8.02	Tons				CAT
2	FUEL-T-Fuel Surcha	100		%				CAT
3	RCR-P-Regulatory C	100		%				CAT
4	EVFt-P-Standard En	100		%				CAT
5	TPF-TRANSPORTATION	100	1	Load				CAT

Total Fees
Total Ticket

Driver's Signature _____ 3D6-1550

403WM

CAN 3020

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NA
2. Page 1 of: 1
3. Emergency Response Phone: (800) 424-9300
4. Waste Tracking Number: WMNH00025340

5. Generator's Name and Mailing Address: Eric W. Errico
ExxonMobil Environmental Services
52 Beacham Street
Everett, MA 02149
Generator's Phone: (617) 381-2952

Generator's Site Address (if different than mailing address): ExxonMobil Environmental Services
229 Homer ST. / 351 Franklin St.
Olean, NY 14760

6. Transporter 1 Company Name: Price Trucking Corp., 67 Beacon ST., Buffalo, NY 14220
U.S. EPA ID Number: NYD046765574

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

8. Designated Facility Name and Site Address: WM of New York at Chaffee Landfill
10860 Olean Road
Chaffee, NY 14030
Facility's Phone: (716) 469-5192
U.S. EPA ID Number: NA

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Regulated Material 112009NY	1		10 (est.)	Tons	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. 112009NY - Abandoned Piping
- Weight in Section 11 is estimated

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for ~~reporting~~ proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Eric Runstrom
On behalf of ExxonMobil Environmental Services
Signature: On Behalf of ExxonMobil Environmental Ser
Month: 12 Day: 14 Year: 13

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

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: PAVEL Zinkiv
Signature: Pavel Zinkiv
Month: 12 Day: 14 Year: 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

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

#1456621

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year 12 23 13

169-BLS-C 6 10497 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 403621

Customer Name ROUXASSOCIATES-112009NY ROUX
Ticket Date 12/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route PERMITTED FOR 101,600
State Waste Code
Manifest WMNH00025340
Destination
PO
Profile 112009NY (PIPING)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier PRICE PRICE TRUCKING
Vehicle# 9200 Volume
Container
Driver
Check#
Billing # 0003058
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
In	12/23/2013 13:41:54	INBOUND	SUSAN		Gross	52900 lb
Out	12/23/2013 14:17:12	OUTBOUND	SUSAN		Tare	42220 lb
					Net	10680 lb
					Tons	5.34

Comments 229 HOMER ST. & 351 FRANKLIN ST.

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	5.34	Tons				CAT
2	FUEL-T-Fuel Surcha	100		%				CAT
3	RCR-P-Regulatory C	100		%				CAT
4	EVFt-P-Standard En	100		%				CAT
5	TPF-TRANSPORTATION	100	1	Load				CAT

Total Fees
Total Ticket

Driver's Signature _____ 3D6-1550

403WM

CERTIFIED SCALE RECEIVER

GOODMAN SERVICES, INC.

A Division of Metalico

286 High Street
Bradford, PA 16701

5338 Route 474
Ashville, NY 14710

Account: OLEAN
Construction Solutions, Inc.
63 South Hunt Road
PO Box 2
Amesbury MA 01913

Recv Date: 8/1/2014
Receiver #: 219114
Control #: 219114
Carrier:
Vehicle #

Commodity	Description	Gross	Tare	Net	Price / UM	Amount
FE201	UNPREP SHEARING	66,180	40,440	25,740	250.00 / GT	2,872.78
			Totals	25,740		2,872.78

Memo:load1 7/18

I CERTIFY THAT I AM 18 YEARS OF AGE OR OLDER. I AM THE LEGAL OWNER OF MATERIAL BEING SOLD.

ACCEPTED:_____

T3.2

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00020900

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8365

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est 22 ton	2000	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Hoffman
Signature: On behalf of ExxonMobil Amy Hoffman
Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny L Parker Jr
Signature:
Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419047

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 20900
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 6
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 12:23:04	INBOUND	TBAUDA		Gross	64660 lb
Out	07/29/2014 12:35:24	OUTBOUND	TBAUDA		Tare	24480 lb
					Net	40180 lb
					Tons	20.09

Comments 229 HOMER ST & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418958

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	20.09	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWMI

T1.3

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800)424-9300	WMNH 00020901

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address — U.S. EPA ID Number
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716)496-5192
N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22ton	24.26	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: onbehalf of ExxonMobil, Amy Hottmann — Signature: onbehalf of ExxonMobil Amy Hottmann — Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: EARL DUTTON — Signature: Earl Dutton — Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10060 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 413048

Customer Name CONSTRUCTIONSOLUTIONS-113068N Carrier DH D&H EXCAVATING
Ticket Date 07/29/2014 Vehicle# 14 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route TARE WEIGHT 26200 Billing # 0003178
State Waste Code Gen EPA ID NOT REQUIRED
Manifest 20901
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

	Time	Scale	Operator	Inbound		
In	07/29/2014 13:52:17	INBOUND	TBAUDA		Gross	75920 lb
Out	07/29/2014 14:03:55	OUTBOUND	TBAUDA		Tare	27400 lb
					Net	48520 lb
					Tons	24.26

Comments 229 HOMER ST & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418980

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.26	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

T1.1

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	(800) 424-9300	WMNH 00021055

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	[illegible]	
	2.				26.42	
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of ExxonMobil, Amy Hoffmann
Signature: on behalf of ExxonMobil [signature]
Month 07 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: EARL DUTTON
Signature: Earl Dutton
Month 7 Day 29 Year 14

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419041

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route TARE WEIGHT 26200
State Waste Code
Manifest 21055
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 14
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 09:08:46	INBOUND	TBAUDA		Gross	80360 lb
Out	07/29/2014 09:22:56	OUTBOUND	TBAUDA		Tare	27520 lb
					Net	52840 lb
					Tons	26.42

Comments 229 HOMER ST & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418921

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-RBC-	100	26.42	Tons				CAT
2 RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 6B4-1564

403WM

T2.1

CVWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021056

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	27.84	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of ExxonMobil, Amy Hoffmann
Signature: on behalf of ExxonMobil Amy Hoffmann
Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Walsh
Signature:
Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419043

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 21056
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 09:29:30	INBOUND	TBAUDA		Gross	81700 lb
Out	07/29/2014 09:41:08	OUTBOUND	TBAUDA		Tare	26100 lb
					Net	55680 lb
					Tons	27.84

Comments 229 HOMER ST. & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418924

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	27.84	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWM1

T3,1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021057

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	30.88	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil Amy Hoffmann
Signature: on behalf of Exxonmobil Amy Hoffmann
Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny L Dudley
Signature:
Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name: Signature: Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419044

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 21057
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 6
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 09:55:53	INBOUND	TBAUDA		Gross	86320 lb
Out	07/29/2014 10:13:20	OUTBOUND	TBAUDA		Tare	24560 lb
					Net	61760 lb
					Tons	30.88

Comments 229 HOMER ST AND 351 FRANKLIN REPLACEMENT TICKET FOR TICKET # 418936

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	30.88	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWMI

17.2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NA	1	(800) 424-9300	WMNH 00021058

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est 22 ton	21.44	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: onbehalf of ExxonMobil, Amy Hoffmann — Signature: onbehalf of ExxonMobil Amy Hoffmann — Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: EARL DUTTON — Signature: E l D — Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419045

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route TARE WEIGHT 26200
State Waste Code
Manifest 21058
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 14
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 11:32:12	INBOUND	TBAUDA		Gross	70420 lb
Out	07/29/2014 11:42:51	OUTBOUND	TBAUDA		Tare	27540 lb
					Net	42880 lb
					Tons	21.44

Comments 229 HOMER ST AND 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418948

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.44	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWMI

12.2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021059

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est 21.31 22TON		
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of ExxonMobil Amy Hoffmann
Signature: on behalf of ExxonMobil Amy Hoffmann
Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Weichmann
Signature: Jim Weichmann
Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419046

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 21059
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 11:52:02	INBOUND	TBAUDA		Gross	68560 lb
Out	07/29/2014 12:04:21	OUTBOUND	TBAUDA		Tare	25940 lb
					Net	42620 lb
					Tons	21.31

Comments 229 homer st & 351 franklin st REPLACEMENT TICKET FOR TICKET # 418950

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.31	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 6B4-1564

403WM

T2.5

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021060

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address — U.S. EPA ID Number
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est 22 ton	20.73	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Hoffmann
Signature: On behalf of ExxonMobil Amy Hoff
Month 7 Day 29 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature: [signature]
Month 7 Day 29 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419049

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 21060
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound	Gross	67520 lb
In	07/29/2014 14:30:34	INBOUND	TBAUDA		Tare	26060 lb
Out	07/29/2014 14:42:32	OUTBOUND	TBAUDA		Net	41460 lb
					Tons	20.73

Comments 229 HOMER & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418988

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-RGC-	100	20.73	Tons				CAT
2 RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWM1

T3.3

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021061

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est 22 ton	25.73	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of Exxonmobil, Amy Hoffmann
Signature: on behalf of Exxonmobil Amy Hoffmann
Month: 7 Day: 29 Year: 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny L Dunlap
Signature:
Month: 7 Day: 29 Year: 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

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

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419050

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/29/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 21061
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 6
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2014 14:44:07	INBOUND	TBAUDA		Gross	75820 lb
Out	07/29/2014 14:54:54	OUTBOUND	TBAUDA		Tare	24360 lb
					Net	51460 lb
					Tons	25.73

Comments 229 HOMER ST & 351 FRANKLIN ST REPLACEMENT TICKET FOR TICKET # 418993

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	25.73	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 6B4-1564

403WM

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00020951

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8365

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
U.S. EPA ID Number: NA

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	23.09	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of ExxonMobil, Amy Hoffmann
Signature: on behalf of ExxonMobil Amy Hoffmann
Month 7 Day 30 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Dierkmann
Signature: Jim Dierkmann
Month 7 Day 30 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10660 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419051

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/30/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 20951
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/30/2014 09:45:11	INBOUND	TBAUDA		Gross	72260 lb
Out	07/30/2014 09:56:25	OUTBOUND	TBAUDA		Tare	26080 lb
					Net	46180 lb
					Tons	23.09

Comments 229 HOMER ST. & 351 FRANKLIN ST.

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	23.09	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 6B4-1564

403WM

CWM1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800)424-9300	WMNH 00020952

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716)496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 tons	24.38	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Hoffmann
Signature: On behalf of ExxonMobil Amy Hoffmann
Month 7 Day 30 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Earl O'Hara
Signature
Month 7 Day 30 Year 14

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419079

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/30/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route TARE WEIGHT 26200
State Waste Code
Manifest 20952
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 14
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	07/30/2014 11:52:14	INBOUND	DBAKER	
Out	07/30/2014 12:03:23	OUTBOUND	DBAKER	

Gross	76020 lb
Tare	27260 lb
Net	48760 lb
Tons	24.38

Comments 229 HOMER ST &351 FRANKLIN

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	24.38	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800)424-9300	WMNH 00020953

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716)496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	22.66	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Hoffmann
Signature: on behalf of exxonmobil Amy Hoffmann
Month 7 Day 30 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Weichmann
Signature: Jim Weichmann
Month 7 Day 30 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name: Signature: Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419088

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/30/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 20953
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/30/2014 12:37:31	INBOUND	DBAKER		Gross	71160 lb
Out	07/30/2014 12:46:35	OUTBOUND	TBAUDA		Tare	25840 lb*
			* Manual Weight		Net	45320 lb
					Tons	22.66

Comments 229 HOMER ST& 351 FRANKLIN ST

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.66	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

CWM1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800)424-9300	WMNH 00020954

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716)496-5192
U.S. EPA ID Number: N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	25.27	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: on behalf of ExxonMobil Amy Hoffmann
Signature: on behalf of Exxon Mobil Amy Hoffmann
Month 7 Day 30 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Earl Dixon
Signature: Earl Dixon
Month 7 Day 30 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419118

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/30/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route TARE WEIGHT 26200
State Waste Code
Manifest 20954
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 14
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/30/2014 14:34:46	INBOUND	tbauda		Gross	77780 lb
Out	07/30/2014 14:45:00	OUTBOUND	tbauda		Tare	27240 lb
					Net	50540 lb
					Tons	25.27

Comments 229 HOMER ST & 351 FRANKLIN ST

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	25.27	Tons				CAT
2	RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature Ed J Bauda 604-1564

403WM

CWM1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800)424-9300	WMNH 00020955

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347)537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716)496-5192
U.S. EPA ID Number: NA

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON DOT REGULATED MATERIAL 113068NY			Est. 22 ton	22.56
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Heffmann
Signature: on behalf of ExxonMobil Amy Heffmann
Month: 7 Day: 30 Year: 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jim Weichman
Signature:
Month: 7 Day: 30 Year: 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

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

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

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

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419132

Customer Name CONSTRUCTIONSOLUTIONS-113068N
Ticket Date 07/30/2014
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 20955
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0003178
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	07/30/2014 15:07:01	INBOUND	tbauda		Gross	71080 lb
Out	07/30/2014 15:18:34	OUTBOUND	tbauda		Tare	25960 lb
					Net	45120 lb
					Tons	22.56

Comments 229 HOMER ST AND 351 FRANKLIN ST

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-RGC-	100	22.56	Tons				CAT
2 RCR-P-Regulatory C	100		%				CAT

Total Fees
Total Ticket

Driver's Signature _____ 684-1564

403WM

T1.1

CWM1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1	(800) 424-9300	WMNH 00021062

GENERATOR

5. Generator's Name and Mailing Address
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
38 VARICK ST.
BROOKLYN NY 11222
Generator's Phone: (347) 537-8355

Generator's Site Address (if different than mailing address)
EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
229 HOMER ST. & 351 FRANKLIN ST.
OLEAN NY 14760

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

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

8. Designated Facility Name and Site Address — U.S. EPA ID Number
WM of NEW YORK at CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE NY 14030
Facility's Phone: (716) 496-5192
N A

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON DOT REGULATED MATERIAL 113068NY			22 ton	22.32	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 - 113068NY - PETROLEUM IMPACTED SOIL
WEIGHT IN SECTION 11 IS ESTIMATED

14. **GENERATOR'S CERTIFICATION:** 'I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.' I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: On behalf of ExxonMobil, Amy Hoffmann
Signature: on behalf of ExxonMobil Amy Hoffmann
Month 7 Day 30 Year 14

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Earl Dutton
Signature: Earl Dutton
Month 7 Day 30 Year 14

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name: Signature: Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 419038

Customer Name CONSTRUCTIONSOLUTIONS-113068N Carrier DH D&H EXCAVATING
Ticket Date 07/30/2014 Vehicle# 14 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route TARE WEIGHT 26200 Billing # 0003178
State Waste Code Gen EPA ID NOT REQUIRED
Manifest 21062
Destination
PO
Profile 113068NY (PETROLEUM IMPACTED SOIL)
Generator 190-EXXONMOBILOLEANHOMERFRANK EXXON MOBIL

	Time	Scale	Operator	Inbound		
In	07/30/2014 09:12:54	INBOUND	TBAUDA		Gross	72080 lb
Out	07/30/2014 09:24:29	OUTBOUND	TBAUDA		Tare	27440 lb
					Net	44640 lb
					Tons	22.32

Comments 229 HOMER & 351 FRANKLIN ST

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.32	Tons				CAT
2	RCR-P-Regulatory C	100		%				

Total Fees
Total Ticket

Driver's Signature Ed Drury 684-1564

403WM

APPENDIX C

Naeva Geophysics Inc. - Results of a Geophysical Investigation
351 Franklin Street Olean, New York

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

GPR
MAGNETICS
ELECTROMAGNETICS
SEISMICS
RESISTIVITY
UTILITY LOCATION
UXO DETECTION
BOREHOLE CAMERA
STAFF SUPPORT

Results of a Geophysical Investigation

Results of a Geophysical Investigation
351 Franklin Street
Olean, New York

Prepared for: **Roux Associates**
Woburn, Massachusetts

Dates of Investigation: **October 13-17, 2014**

351 Franklin Street, Olean, New York
Aerial photo provided by Google Earth

Prepared by:

Gerald Williamson
Geologist: Project Manager
NAEVA Geophysics, Inc.
225 North Route 303, Suite 102
Congers, NY 10920

NEW YORK
225 N Route 303
Suite 102
Congers
New York 10920
(845) 268-1800
(845) 268-1802 Fax

VIRGINIA
P.O. Box 7325
Charlottesville
Virginia 22906
(434) 978-3187
(434) 973-9791 Fax

Contents

1.0 Introduction

1.1 Purpose of Investigation

NAEVA Geophysics, Inc. conducted a geophysical investigation on portions of a commercial property located at 351 Franklin Street in Olean, New York from October 13th to 17th, 2014. The purpose of the investigation was to attempt to identify former piping and structures that may remain from a former manufacturing gas plant (MGP) that once existed on the site, as well as to mark out active subsurface utilities within portions of the property.

1.2 Area of Investigation

The area of investigation was an approximately 8-acre portion of a commercial property located at 351 Franklin Street in Olean, NY. The property contained two buildings with multiple commercial tenants, including Valley Tire Company, First Transit, and a professional moving company. The area of investigation included the open and accessible portions of the property around the two buildings, as well as a portion of a field located across Franklin Street (see Figure 1). Most of the area of investigation was covered with grass, with the exception of an asphalt parking lot and some gravel areas. Some portions of the area could not be investigated due to parked vehicles, stored tires and other materials, and thick brush and vegetation.

2.0 Methods and Instrumentation

The equipment selected for this investigation included a Geonics EM31 Terrain Conductivity Meter (EM31), a Trimble 5700 Global Positioning System (GPS), a Fisher TW-6 Pipe and Cable Locator (a hand-held electromagnetic metal detector), a Mala/RAMAC ground penetrating radar (GPR) system with a 250 MHz antenna, and electromagnetic (EM) utility locating instruments. The EM31 was used to investigate for potential former MGP piping and structures, as well as active subsurface utilities. The TW-6, GPR, and utility locating instruments were used in follow-up investigations of the EM31 survey. The GPR and utility locating instruments were also used in an attempt to mark out active subsurface utilities within the area of investigation.

2.1 EM31

The Geonics EM31 terrain conductivity meter (EM31) uses electromagnetic (EM) induction to measure changes in ground conductivity. It consists of boom-mounted coplanar EM transmitter and receiver coils mounted at a fixed distance of 12 feet to one another. The electronic processing and control unit is located at the midpoint of the boom. Data is stored

in a digital data recorder attached to the instrument. A current applied to the transmitter coil produces a time varying magnetic field, which induces small secondary currents within the earth. These currents, in turn, generate a secondary magnetic field, which is detected along with the primary field by the receiver coil. The secondary signal has the same frequency as the primary signal but has a phase shift. The phase shift of the secondary signal is linearly proportional to the apparent conductivity.

The EM31 measures two components of the induced magnetic field. The first is the quadrature phase component, which is a measurement of the apparent soil conductivity expressed in milliSiemens per meter (mS/m) and is used to delineate areas of anomalously high or low conductivity. These conductivity variations can be caused by both metallic and non-metallic objects that are large enough to produce a detectable change in the surrounding conductivity.

The second is the inphase component, which is a relative measurement between the induced magnetic field and the earth's magnetic field expressed in parts per thousand (ppt). The inphase component is much more sensitive to metallic objects and, therefore, can be useful in the detection of buried metal targets. A negative response by the inphase component is usually an indication of buried metal, while a positive response is usually due to aboveground metallic objects; however, in NAEVA's experience, a positive response can indicate buried metal as well (typically shallow buried metallic objects).

EM31 data were collected along parallel transects spaced 5 feet apart at a rate of 2 readings per second. The EM31 was carried at a height of approximately 3 feet and was operated in the vertical dipole mode, where the maximum depth of investigation was 18 feet and the greatest portion of the instrument response was affected by material in the 3 to 9 feet depth range. Data were recorded using an Allegro field computer running the EM31 acquisition software.

Geonics EM31 Terrain Conductivity Meter

2.2 Trimble RTK GPS

The geophysical data were positioned using a Trimble 5700 Global Positioning System (GPS) base station and a 5700 rover receiver, operating in Real-Time Kinematic (RTK) mode. The positional data were collected along with the EM31 data at a rate of 1 reading per second (1 Hz).

The Trimble R7 GPS is a 24-channel dual frequency RTK receiver that uses both L1 and L2 satellite frequencies. The GPS base station was setup on a location with unknown coordinates and positional readings were recorded for a period of 8 hours. These recorded locations were then uploaded to On-line Positioning Users Service (OPUS) and a corrected coordinate was provided having accuracy within a few centimeters (cm) of the true coordinate. The base station sends positional corrections at a rate of 1 hertz (Hz) to the rover via radio link using a TDL 450H radio modem. The accuracy of the GPS rover depends largely on the accuracy of the base station and the number of satellites visible, which may be obstructed by local features such as buildings or heavy tree cover.

Trimble 5700 Global Positioning System base station

2.3 TW-6

The Fisher TW-6 Pipe and Cable Locator is a type of handheld EM metal detector that is useful for delineating the surface traces of buried metallic items. The instrument consists of a transmitter coil and a receiver coil mounted at opposite ends of a 4-foot horizontal staff. The transmitter is fixed in a vertical position. The receiver's orientation is then adjusted to the horizontal, exactly perpendicular to the transmitter. When the receiver is in this perpendicular orientation, its response to the transmitter is at a minimum. Metallic objects or

conductive utilities in the detection range of the instrument pick up the transmitted signal, act as secondary transmitters, and cause a detectable interference at the receiver. By adjusting the gain and the position of the instrument relative to a buried metallic object, an experienced operator can often obtain information as to the size or shape of the target.

The maximum effective depth of detection for the TW-6 is approximately six feet.

TW-6 metal-detector

2.4 Ground Penetrating Radar

The Mala/RAMAC GPR system with a 250 MHz antenna consists of four major parts: a 4-wheeled chassis with an integrated odometer, a transmitter/receiver antenna, a battery unit, and a digital video logger (DVL). The GPR's transmitter radiates a short pulse of electromagnetic energy into the ground. When this pulse strikes an interface between layers of material having different dielectric properties, a portion of the energy is reflected back to the surface, while the remaining energy continues on to the next interface. The GPR records these reflections versus time in nanoseconds (two-way travel time), or depth when using an appropriate radar velocity, and displays them in real-time via the DVL as a vertical column of data on the screen. As the GPR moves, the integrated odometer triggers the system to collect data at fixed scan intervals of approximately every 1.2 inches. As the individual data lines build up, they create a continuous image. These profiles are then examined for parabolic reflections that could be interpreted as representing subsurface utilities or other buried objects.

GPR can often provide high-resolution cross-sectional images of buried objects, but its suitability is site-specific. In general, better results are obtained in dry, resistive, sandy soils than in wet, clayey, or conductive soils. Lower frequency signals provide greater depth of penetration, but less resolution, than higher frequency antennas. The 250 MHz shielded antenna is commonly used in urban environments for delineating both metallic and nonmetallic subsurface utilities and other buried features.

Mala/RAMAC Ground Penetrating Radar (GPR) System

2.5 Utility Locating Instruments

The Ditch Witch Subsite 970 and 3M Dynatel 2250 were the primary instruments used for utility location. The Subsite is suitable for locating the surface traces of a variety of buried utilities. The Dynatel is particularly suited for locating telephone, electric, and other narrow-gauge wiring, but it can also detect larger metallic conduits and piping. The instruments work by using a transmitter to apply a radio frequency signal onto a metallic/electrically conductive line. The signal is then traced at the surface using the instrument's receiver. The ideal method of detection is to apply the signal directly onto an exposed portion of the line. Alternatively, where there are no convenient exposures, the tracing signal may be induced onto the lines by placing transmitters on the ground above the utilities. The Dynatel was also used in a splitbox fashion, where two operators (one carrying the transmitter and one carrying the receiver) walked bi-directionally across areas of concern at a fixed distance to one another while listening for increases in signal strength that would suggest possible subsurface utilities.

Subsite 970 utility locator

3M Dynatel 2273 Cable Locator

3.0 Field Operations

This section provides a description of field operations for the EM31 investigation, including grid setup, data collection, and data processing.

3.1 Geophysical Sampling Grid Set-up and Data Collection

To facilitate a systematic approach to data collection and the reacquisition of anomalies identified in the EM31 data, a virtual grid of parallel, approximately east/west lines spaced 5 feet apart was established across the area of investigation using geographical information software. EM31 data was collected along each line with guidance provided by a Trimble TSCe survey controller in the form of shape files displaying the grid line paths on the screen. The EM31, operating in automatic collection mode, collected two data readings per second, which, at a normal walking speed, averaged to approximately every 2.5 feet along each grid line. The GPS provided positional data at 1 reading per second, which was recorded along with the EM31 data in the data logger.

3.2 Geophysical Data Processing

The raw data from the digital recorder was transferred to a laptop computer for processing using Geonics' DAT31W software and Golden's Surfer® software after completion of the data collection. The positional data were recorded with GPS, and the EM31 data was converted to a spreadsheet format compatible with the Surfer® mapping software for contouring. The two components of EM31 data, which are quadrature phase and inphase, were contoured in the field. Noted anomalies were further investigated with GPR, the TW-6 metal detector, and EM utility locating instruments. More advanced processing to produce the final report quality contour maps of the EM31 data was performed using GEOSOFT Oasis Montaj® software at NAEVA's Congers, New York office.

4.0 Results

EM31 Quadrature phase

Figure 2 displays the results of the measured quadrature phase component of the EM31, which is a function of terrain conductivity. Higher intensity colors (reds and pinks) indicate areas of relatively high conductivity, while the lower intensity colors (yellows, greens, and blues) represent areas of relatively low conductivity. The orange shaded areas are considered to represent background and non-anomalous areas. Both relatively high and low anomalous areas indicate areas with conductivity different from background, and may represent buried debris or features. They may also indicate a difference in soil types or materials.

EM31 Inphase

Figure 3 displays the results of the measured inphase component of the EM31. As with the quadrature phase data, higher intensity colors (reds and pinks) indicate areas of anomalously high readings, while the lower intensity colors (yellows, greens, and blues) represent anomalously low readings. The orange shaded areas are considered to represent background and non-anomalous areas. The anomalously low (or negative) readings usually indicate buried metal, while the anomalously high (or positive) readings typically indicate aboveground metal. However, anomalously high readings can also indicated buried metal, especially if it is relatively shallow.

Geophysical Data Interpretation

As a result of the EM31 and subsurface utility investigation, NAEVA identified several active subsurface utilities, including water lines, electric lines, natural gas lines, telephone lines, and sewer lines, as well as several suspected utilities of unknown use. The locations of identified lines are indicated on Figure 1, and each line is listed in Table 1, along with any additional information such as approximate depths and possible sources for the unknown lines.

NAEVA identified 5 metallic anomalies in the EM31 inphase data, indicated as MDA1 through MDA5 on the attached Figures. Follow up investigations with GPR and the TW-6 metal detector did not provide any additional information; however, each anomaly was detected with the TW-6, indicating that the anomalies are likely to be less than 8 feet below grade (the maximum detection range for the TW-6). The anomalies are listed in Table 1.

NAEVA also identified 5 anomalous areas in the EM31 data (indicated as anomalies A through B on the attached Figures) within the area of investigation. Each anomaly indicates a general area with EM anomalies that were not detected with the other instruments, but still could represent targets of interest, such as former MGP piping and structures. These anomalies, along with any other information if available, are also listed in Table 1

All detected subsurface utilities and features are indicated on Figure 1. Figures 2 and 3 are the EM31 Quadrature Phase EM contour map and the EM31 Inphase EM contour map respectively. All coordinates are in the Universal Transverse Mercator (UTM) coordinate system, zone 17 North.

APPENDIX A

Table 1. List of Detected Subsurface Utilities and EM31 Anomalies

Anomaly ID	Suspected Source	Approximate Depth	Notes and Comments
ng1	natural gas line	2-3 feet	line appears to get deeper towards the north
ng2	natural gas line	4-7 feet	natural gas main runs along southern edge of property
w1	water line	4-5 feet	main service in road
w2	water line	5-6 feet	service to Valley Tire building
w3	water line	4-6 feet	Line runs through water vault located near eastern building. Unclear what this line services.
w4	water line	4-5 feet	Suspected abandoned line? Building tenant mentioned this line may have went to a former hydrant that is no longer present.
w5	water line	3-5 feet	Unclear what this line services
t1	telephone/communication line	less than 1 foot	Service to Valley Tire Building, very shallow.
t2	telephone/communication line	less than 1 foot	Service to Valley Tire Building, very shallow.
t3	telephone/communication line	3-4 feet	Service to Valley Tire Building.
t4	telephone/communication line	2 feet to less than 1 foot	Service to eastern building. Northern section (from utility pole to telephone box) is approximately 2 feet deep, the rest of the line (from telephone box to building) is very shallow.
t5	telephone/communication line	2-3 feet	Service to eastern building, possibly abandoned?
s1	sewer line	3-5 feet	service to Valley Tire building
s2	sewer line	unknown	runs approximately parallel to road, on north side of Franklin Street
s3	sewer line	unknown	service to adjacent property
s4	sewer line	12-13 feet	6" or 8" plastic line, too deep to trace
s5	sewer line	12-13 feet	6" or 8" plastic line, too deep to trace
s6	sewer line	12-13 feet	6" or 8" plastic line, too deep to trace
e1	electric line	3-6 feet	Traced from utility pole on adjacent property. Appears to get deeper towards the north.
e2	electric line	1-2 feet	feeds electric posts

Table 1. List of Detected Subsurface Utilities and EM31 Anomalies (cont.)

Anomaly ID	Suspected Source	Approximate Depth	Notes and Comments
e3	electric line	2-3 feet	service from building to electric posts
e4	electric line	2-4 feet	service to light pole
e5	electric line	3-4 feet	service from utility pole to building
e6	electric line	3-6 feet	service from utility pole to transformer
e7	electric line	2-4 feet	service from transformer to building
e8	electric line	2-3 feet	service from transformer to building
e9	electric line	unknown	service to landscape lighting near transformer
e10	electric line	1-2 feet	service from building to business sign
e11	electric line	2-5 feet	Service to light pole. Appears to get deeper as line heads toward building.
e12	electric line	3-4 feet	service from Valley Tire building to eastern building
e13	electric line	unknown	Possible abandoned line? According to building tenant, line used to feed a former pump island.
e14	electric line	3-5 feet	service to light pole
?1	unknown	unkown	NAEVA could not determine the source of this feature
?2	unknown	6-7 feet	NAEVA could not determine the source of this feature
?3	unknown	5-8 feet	NAEVA could not determine the source of this feature
?4	unknown	3-5 feet	NAEVA could not determine the source of this feature
?5	unknown	2-3 feet	NAEVA could not determine the source of this feature
?6	unknown	3-5 feet	Appears to head towards a light pole. May be an electric line?
?7	unknown	4-5 feet	Appears to head through some electrical conduits associated with landscape lighting. May be an electric line?

Table 1. List of Detected Subsurface Utilities and EM31 Anomalies (cont.)

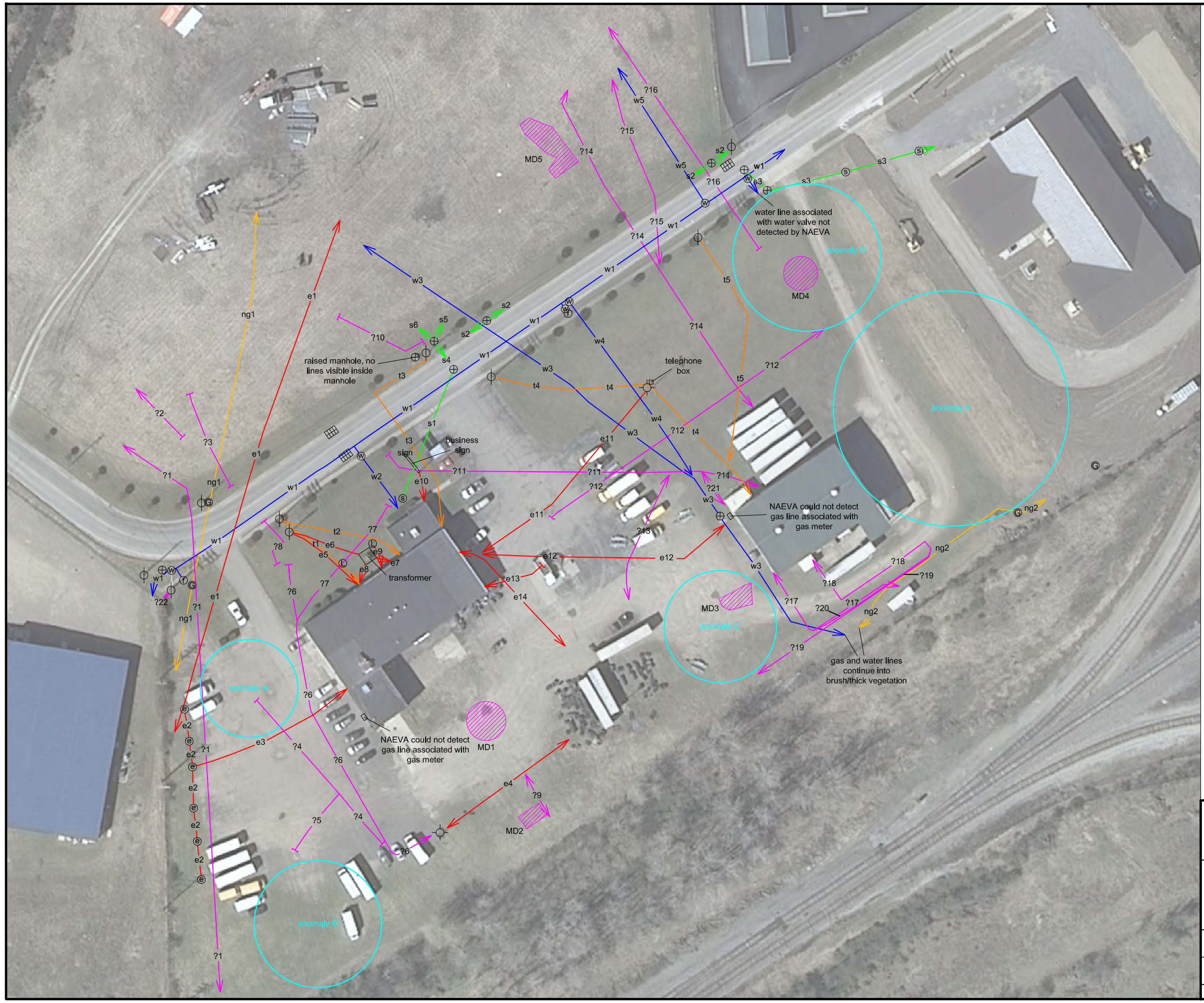
Anomaly ID	Suspected Source	Approximate Depth	Notes and Comments
?8	unknown	2-3 feet	NAEVA could not determine the source of this feature
?9	unknown	2-3 feet	Appears to join an electric line servicing a light pole. May be an electric line?
?10	unknown	5-6 feet	NAEVA could not determine the source of this feature
?11	unknown	3-4 feet	Appears to head from eastern building to business sign for Valley Tire. May be an electric line?
?12	unknown	5-7 feet	NAEVA could not determine the source of this feature
?13	unknown	5-7 feet	NAEVA could not determine the source of this feature
?14	unknown	5-7 feet	NAEVA could not determine the source of this feature
?15	unknown	unknown	NAEVA could not determine the source of this feature
?16	unknown	unkown	NAEVA could not determine the source of this feature
?17	unknown	1-3 feet	NAEVA could not determine the source of this feature
?18	unknown	1-3 feet	NAEVA could not determine the source of this feature
?19	unknown	4-6 feet	NAEVA could not determine the source of this feature
?20	unknown	3-4 feet	Appears to join unknown lines ?17 and ?18. NAEVA could not determine the source of this feature.
?21	unknown	4-5 feet	Appears to join unknown line ?11. May be an electric line?
?22	electric or telecommunication line	unknown	drop down from a utiltiy pole that heads to adjacent property
MDA1	metal detector anomaly	unknown	Circular metal anomaly. NAEVA could not determine the source of this feature.
MDA2	metal detector anomaly	unknown	Rectangular metal anomaly. NAEVA could not determine the source of this feature.

Table 1. List of Detected Subsurface Utilities and EM31 Anomalies (cont.)

Anomaly ID	Suspected Source	Approximate Depth	Notes and Comments
MDA3	metal detector anomaly	unknown	Circular metal anomaly. NAEVA could not determine the source of this feature.
MDA4	metal detector anomaly	unknown	Rectangular metal anomaly. NAEVA could not determine the source of this feature.
MDA4	metal detector anomaly	unknown	Irregular shaped metal anomaly. May contain a linear feature as well. NAEVA could not determine the source of this feature.
Anomaly A	unknown	unknown	Area of relatively high conductivity. Unknown line ?4 appears to terminate in this area.
Anomaly B	unknown	unknown	Area contains linear features in the EM31 quadrature phase data (conductivity), as well as some inphase (metal detection) anomalies. Follow up investigations with the GPR, TW-6 metal detector, and EM utility line locators could not provide any additional information.
Anomaly C	unknown	unknown	Area contains linear features and anomalies shown in the EM31 quadrature and inphase data. Follow up investigations with the TW-6 metal detector identified MDA3 in this area. GPR and EM utility line locators did not provided any additional information.

Table 1. List of Detected Subsurface Utilities and EM31 Anomalies (cont.)

Anomaly ID	Suspected Source	Approximate Depth	Notes and Comments
Anomaly D	unknown	unknown	Area contains linear features and anomalies shown in the EM31 quadrature and inphase data. Follow up investigations with the TW-6 metal detector identified MDA4 in this area. GPR and EM utility line locators did not provide any additional information.
Anomaly E	unknown	unknown	Area contains linear features and anomalies shown in the EM31 quadrature and inphase data. Follow up investigations with GPR, TW-6 metal detector, and EM utility line locators did not provide any additional information. It should be noted that there was some reinforced concrete debris visible at the surface in this area.



LEGEND

- e — electric line
- w — water line
- ng — natural gas line
- s — sewer line
- t — telephone line
- ? — suspected utility of unknown use
- metal detector (MD) anomaly
- catch basin
- manhole cover
- water valve
- sewer cleanout
- utility pole
- light post
- electrical post
- landscape lighting
- fire hydrant
- electromagnetic (EM) anomalous area

approximately

0m 12.5m 25m

Scale: One inch equals approximately twenty-five meters

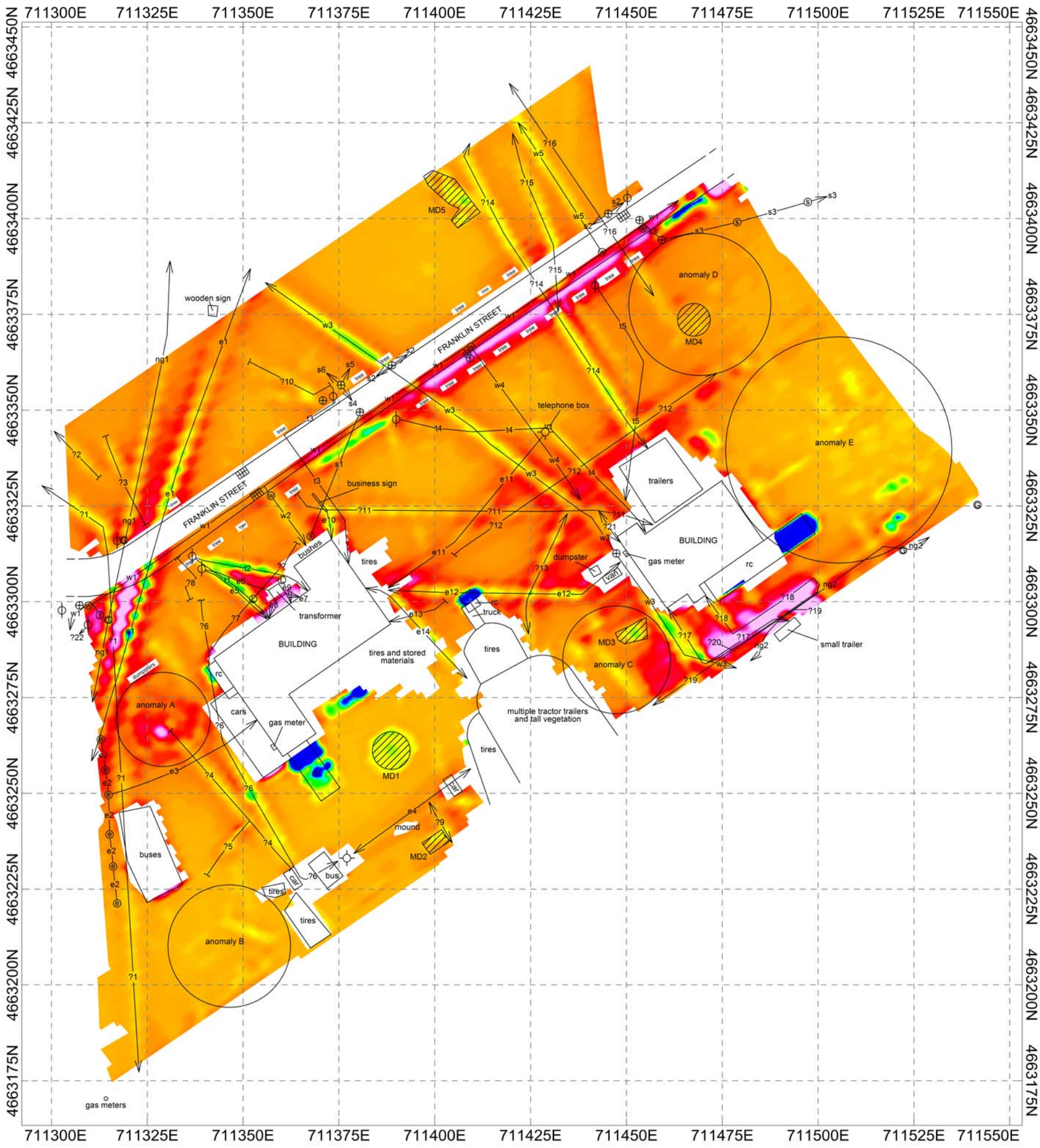
NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

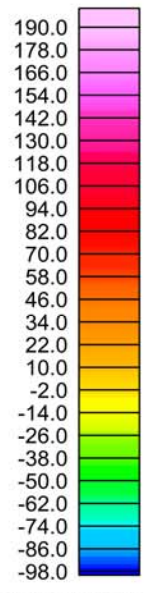
225 N Route 303, Suite 102
Congers, NY 10920
(845)268-1800
(845)268-1802 FAX

Figure 1. Results of a Geophysical Investigation
351 Franklin Street
Olean, New York

Client	Roux Associates	Dates of Work	October 13-17, 2014
Project No.	C1410131X	Map By	Kelly Weyer

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP





LEGEND

⌽	utility pole	▦	catch basin
⊕	manhole	—e—	electric line
☼	light pole	—w—	water line
Ⓦ	water valve	—s—	sewer line
ⓕ	fire hydrant	—t—	telephone line
ⓔ	electric post	—ng—	natural gas line
Ⓖ	gas marker post	—?—	suspected utility of unknown use
Ⓢ	sewer cleanout	▨	metal detector anomaly
Ⓛ	landscape lighting	◯	electromagnetic (EM) anomalous area
rc	reinforced concrete		

Scale 1:1125

25 0 25

(meters)

NAD83 / UTM zone 17N

Figure 2

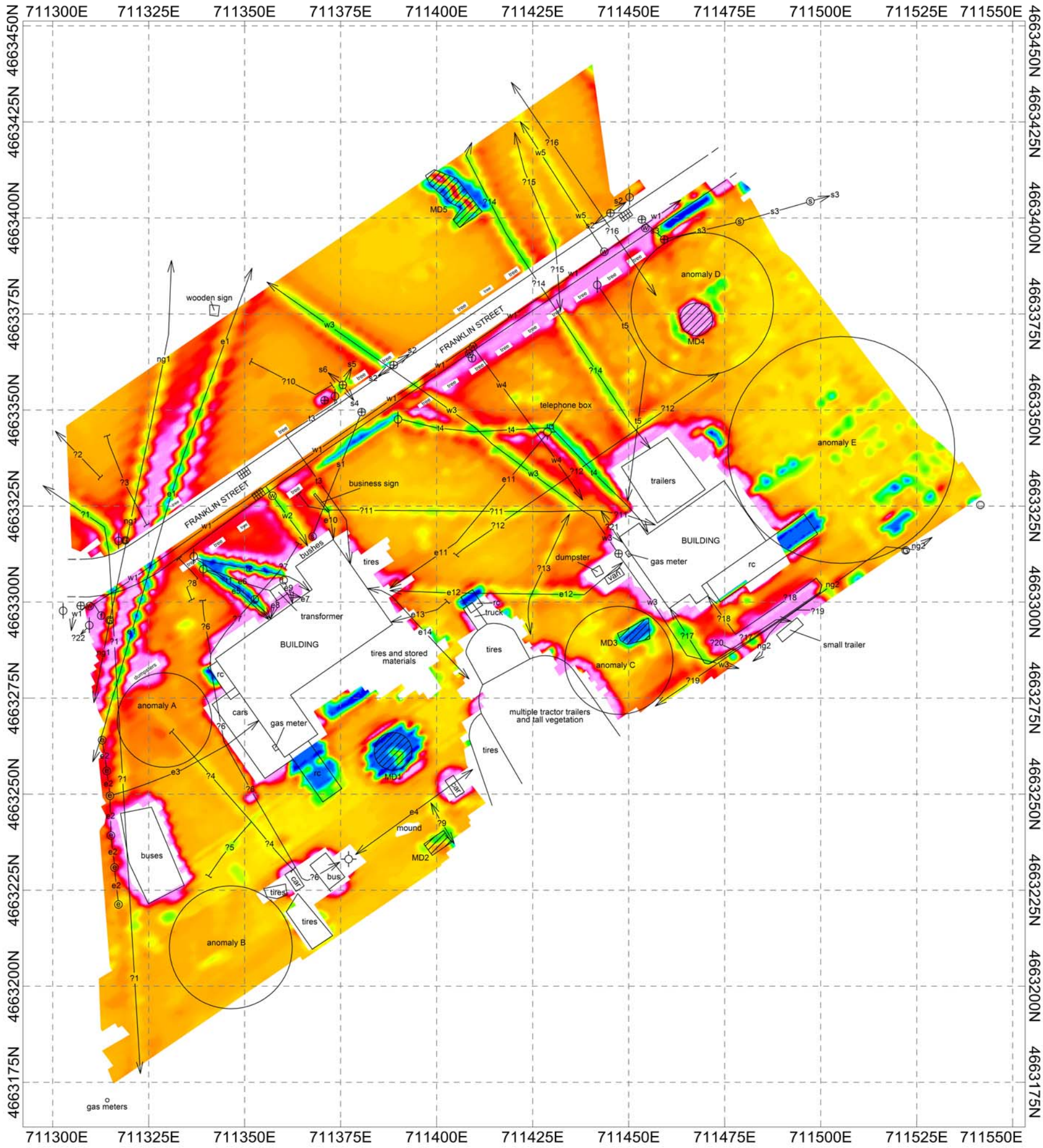
NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

Roux Associates

Project Number: C1410131X
EM31 Quadrature Phase Component (Terrain Conductivity)
351 Franklin Avenue
Olean, New York

Dates of Survey: 10/14/14 and 10/15/14
Map By: Gerald Williamson

ALL BELOW GROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP.



20.3
18.5
16.8
15.0
13.3
11.5
9.8
8.0
6.3
4.5
2.8
1.0
-0.8
-2.5
-4.3
-6.0
-7.8
-9.5
-11.3
-13.0
-14.8
-16.5
-18.3
-20.0
-21.8

ppt

LEGEND

⌽	utility pole	▦	catch basin
⊕	manhole	—e—	electric line
☼	light pole	—w—	water line
Ⓦ	water valve	—s—	sewer line
ⓕ	fire hydrant	—t—	telephone line
ⓔ	electric post	—ng—	natural gas line
Ⓖ	gas marker post	—?—	suspected utility of unknown use
Ⓢ	sewer cleanout	▨	metal detector anomaly
Ⓛ	landscape lighting	◯	electromagnetic (EM) anomalous area
rc	reinforced concrete		

Scale 1:1125

25 0 25

(meters)

NAD83 / UTM zone 17N

Figure 3

NAEVA GEOPHYSICS INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

Roux Associates

Project Number: C1410131X
EM31 Inphase Component (Metal Detection)
351 Franklin Avenue
Olean, New York

Dates of Survey: 10/14/14 and 10/15/14
Map By: Gerald Williamson

ALL BELOW GROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP.