Groundwater & Environmental Services, Inc.

CENTRAL NEW YORK OFFICE

December 4, 2012

Mr. Peter Ouderkirk
New York State Department of Environmental Conservation, Region 6
Dulles State Office Building
317 Washington Street
Watertown, New York 13601

Re: Final Engineering Report
Former Matt/Grace Petroleum
201 Leland Avenue
Utica, New York (Oneida County)
NYSDEC Spill# 88-09026

Dear Mr. Ouderkirk,

Attached is the *Final Engineering Report* for the subject site prepared by Groundwater & Environmental Services, Inc. (GES) on behalf of the New York State Department of Environmental Conservation (NYSDEC). This report summarizes all activities performed on the site between July of 2011 and August of 2012. These activities were associated with completing the second phase of the remedial remedy on Operable Unit No. 1 (OU1).

If you have any questions or comments regarding this submittal, please feel free to contact GES at 800-220-3069.

Sincerely,
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Katrina A Stafford
Staff Geologist

Justin Domago
Project Manager

FINAL ENGINEERING REPORT

Former Matt Petroleum Site
102 Leland Avenue
Utica, New York (Oneida County)
NYSDEC Spill #88-09026

Prepared For:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION (NYSDEC)
317 Washington Street
Watertown, New York 13601

Report Date
December 4, 2012

Prepared by: _____
Katrina Stafford
Case Manager

Reviewed by: _____
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TABLE OF CONTENTS

1.0 INTRODUCTION

Groundwater & Environmental Services, Inc., (GES) presents this *Final Engineering Report* to the New York State Department of Environmental Conservation (NYSDEC) for the property located at 102 Leland Avenue, Utica, New York (the Site) (**Figure 1**).

Operable Units: The Site was divided into two operable units. An operable unit represents a portion of a remedial program for a site that for technical or administrative reasons can be addressed separately to investigate, eliminate or mitigate a release, threat of release or exposure pathway resulting from the Site contamination. Operable Unit No. 1 (OU1) includes the on-site area. A Record of Decision (ROD) was signed on June 29, 2007 for OU1, which required the Site to be remediated utilizing a soil turning/biological treatment process. Operable Unit No. 2 (OU2) consists of off-site areas including the sediments, surface water and soil along the banks of the Mohawk River in proximity to the Site. The Remedial Investigation for OU2 studied areas upstream, adjacent and downstream of the Site.

This report includes a summary of activities completed at the Site from July 15, 2011 to August 20, 2012. The activities include completion of the second phase of the remediation of the OU1 portion of the property.

2.0 SITE DESCRIPTION AND BACKGROUND

The Site is approximately 4.5 acres in size and consists of a predominantly vacant parcel of land historically used as petroleum bulk storage (PBS) terminal. The only structure that remained on the Site prior to 2012 remedial activities was a brick masonry maintenance building that was being used by the City of Utica to store equipment. The Site is located along the west side of Leland Avenue, in the City of Utica, Oneida County, New York. The Site is located in an area of heavy industrial development. Leland Avenue, the City of Utica Fire Training Facility (a former PBS facility), and Universal Waste (salvage yard) exist to the east of the Site. The City of Utica Bus garage, the East Olive Oil Company, and railroad lines exist to the south of the Site. A former PBS facility exists to the west of the Site. The Mohawk River borders the Site to the northeast. The Site and surrounding the above referenced properties are depicted on the Site Location Map enclosed as **Figure 2**.

During the first half of the 1900's, the Site was utilized as a brickyard. Between the 1950s to the 1990s, the Site operated as a PBS terminal. It has been indicated in past reports that during this period, numerous major and minor petroleum releases occurred during the terminals operations. The various grades of petroleum products ranging from lighter gasoline and diesel fuel products to heavier No. 6 fuel oil products were stored at the terminal.

In the spring of 2004, demolition of on-Site structures including ten bulk petroleum tanks, three aboveground oil blending tanks, a slop tank, an oil/water separator, five loading racks, two pump houses, aboveground and buried piping, and four buildings was completed. Following the demolition, the Site consisted of a rough graded lot with one building and a chain link fence around the entire perimeter. A comprehensive investigation of surface soils, subsurface soils and groundwater was completed across the Site in September of 2005.

On June 29, 2007, an Environmental Restoration Record of Decision (ROD) for OU1 was completed by the NYSDEC using data collected from previously completed subsurface investigations and pilot studies. The remedial remedy selected for OU1 included two parts; Excavation and off-Site disposal of

soils which are deemed un-treatable and/or heavily contaminated. Excavation, on-Site ex-situ treatment using a soil turning method and replacement of other impacted soils.

The first phase of the remediation included the removal, transportation, and off-Site disposal of a large percentage of the grossly contaminated soil mass. The second phase of the remediation would include the excavation and on-Site ex-situ bioremediation of the remaining soil contaminant mass not removed during the first phase.

In the first quarter of 2010, the NYSDEC contracted Op-Tech Environmental Services, Inc. (Op-Tech) to implement the remedial remedy selected by the ROD for OU1. At this time it was determined that the best approach to implement the remedy would be in two phases. The first phase would be excavation and off-Site disposal of the grossly contaminated soil mass. The second phase would be the excavation and on-Site ex-situ bioremediation of the remaining contaminated soil not removed during the first phase. It was estimated that 60 percent of the impacted soils present at OU1 would be handled in the first phase and 40 percent in the second phase. Op-Tech completed the first phase by removing 46,475.70 tons of petroleum impacted soils from the Site and transported these soils to Ontario County Landfill and Seneca Meadows Landfill for disposal. During excavation activities, a 2,000 gallon underground storage tank was discovered and removed from the Site. Op-Tech also completed part of the second phase of the remedial remedy by excavating 10,000 cubic yards of impacted soils and staging them in windrows for future turning method. It was estimated at the time that this represented approximately 50 percent of the impacted soils that needed to be excavated for the second phase.

3.0 GEOLOGY AND HYDROGEOLOGY

The descriptions of soils encountered during historical investigation activities indicate that the overburden material of the Site generally consists of brown medium to fine grained sand with varying amounts of silt from the ground surface to approximately 8.0 feet below grade (fbg). Within the upper horizon of this sand layer, fragments of brick and coal, which are indicative of industrial fill, were also observed. Below 8.0 fbg, a fining downward sequence of silt and clay has been observed to approximately 20.0 fbg. The saturated groundwater interface was observed at depths ranging from 10.0 to 12.0 fbg. Bedrock was not encountered during historical drilling activities.

4.0 REMEDIAL ACTIVITIES SUMMARY

From July 11, 2011 through August 20, 2012, GES, on behalf of the NYSDEC, conducted field activities associated with the completion of the second phase of the remedial remedy for OU1. The activities included, preliminary soil evaluation of existing windrows staged in 2010, excavation and turning of the remaining impacted soils on-Site, dewatering as necessary, and final grading and seeding of the property.

4.1 Preliminary Soil Evaluation

On July 11, 2011, the NYSDEC contracted GES to complete soil sampling activities at the Site in order to evaluate the current level of impacts in and below the three windrows that were staged on-Site during the first quarter of 2010. An excavator was used to complete test pits within the windrows and below surface grade. The three windrows were approximately 140 to 150 feet long, 50 to 75 feet wide, and 8 to 10 feet high. The windrows consisted of excavated petroleum impacted soils that exhibited odors and/or visual staining but no free product.

Observations during the advancement of the test pits identified similar characteristics across all three windrows. Soils encountered below surface grade was a mixture of gravel, rubble, brick, soils, and debris. These soils exhibit petroleum odors and/or staining. Field scans of the soils with a photoionization detector (PID) indicated readings ranging from 0.0 to 600 ppm. As some of the test pits were advanced below grade, an underlying silt/clay unit was encountered that did not exhibit any significant visual or olfactory evidence of contamination.

4.2 Ex-situ Soil Treatment

On August 12, 2011, the NYSDEC contracted GES to continue the second phase of the remedial remedy. The planned work scope included the excavation, treatment of remaining impacted soils through turning using an Allu™ bucket, and regrading the treated soils on-Site. Through various conversations, communications and Site meetings, the implementation details and estimated cost of the project were finalized and approved by the NYSDEC. The goal of the second phase was to address the impacted areas of the Site, not addressed by the first phase, to the extent required to reduce and remove nuisance characteristics of odor and staining from the on-Site soils. In doing so, it was assumed that the soil turning process would also reduce the concentrations of petroleum related volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) contaminants in the soils below Unrestricted Use Soil Cleanup Objectives (SCO). In order to reach the established goal, the following Site specific field criteria were established to determine excavation limits and soil turning durations:

- Absence of olfactory indications of petroleum odors emanating from the soils.
- Absence of visual indications of petroleum staining of the soils.
- PID readings less than 50 ppm during field scans of the excavations sidewall/bottom and random grab samples from the piles of turned soils.
- For determining excavation limits only, where applicable, observations of sand backfill indicating that the excavation had reached areas previously addressed during the first phase of activities conducted in the first quarter of 2010.

Excavations were advanced horizontally and vertically until soils meeting all of the criteria were encountered. Once excavated, soils were turned until they also met the first three criteria before being returned to open excavations on the Site.

On October 10, 2011, GES mobilized to the Site to begin the second phase of the remedial remedy. The existing three windrows (Windrows 1 – 3) were moved to the northern portion of the property and re-staged into three new windrows. Debris including poly-sheeting, scrap metal, railroad ties, large pieces of stone and concrete were removed from the soil using an excavator, a mini excavator, and a loader. The debris was either staged or placed in a roll off container for future disposal or recycling. Following the restaging of Windrows 1 – 3, excavation activities from grade to approximately 4.5 to 5.0 fbg was completed in the areas where Windrows 1 – 3 were originally staged. Due to changes in Site conditions, including inclement weather and standing groundwater in the excavations, the decision was made to suspend Site activities until conditions improved in 2012. The newly excavated soils were staged in two new windrows between the open excavations in preparation for future soil turning activities. It is estimated that approximately 12,000 cubic yards of soils were staged in windrows during these activities. The Site was winterized, Windrows 1-3 were covered with poly to reduce sediment run off and the field crew was off-Site on November 18, 2011.

In May of 2012, the City of Utica demolished the on-Site brick masonry maintenance building that was being used by the City of Utica to store equipment. The concrete slab floor was also removed, but the concrete footings were left in place.

From May 21 through August 20, 2012, GES was on-Site to complete the second phase of the remedial remedy. The activities completed included the following:

- Windrows 1-3 located along the northern portion of the property and the two new windrows staged in the Fall of 2011 were moved and turned with an Allu™ bucket and excavator until they met the established Site specific criteria. As soils met the criteria they were then restaged into larger soil piles in preparation for replacement into open excavations on the Site.
- Within the large main excavation area located on the Leland Avenue or eastern side of the Site, soils were removed to a depth of approximately 6.0 to 7.0 fbg. These soils were also staged in windrows, turned until adequately treated and then restaged in preparation for replacement.
- Soils from under the former maintenance building were excavated to depths between 6.0 to 8.0 fbg. The excavation was extended as far south as possible without effecting the access road that runs parallel to the railroad tracks. This caused the excavation to be terminated prior to reaching soils that met all of the established criteria. The soils left in place along this eastern sidewall invoked PID readings of greater than 100 ppm but less than 230 ppm. Sand backfill from the first phase of remedial activities was encountered along the north and west sidewalls of this excavation area. Seven soil samples (Bottom 1, Bottom 2, Bottom 3, Sidewall 1, Sidewall Q16, Sidewall S18, and Sidewall S19) were collected from the parameter and bottom of this excavation and were submitted for laboratory analysis. Approximately 3,380 cubic yards of soils were excavated from under the former building area of the Site. These soils were treated through turning and staged in preparation for replacement as needed. The remaining concrete footers and brick debris from the building demolition was placed into this excavation as backfill from the bottom to approximately 5.0 fbg. The remainder of the excavation was backfilled with soils from the Site that had been treated to required criteria.
- A former waste oil UST was discovered during the excavation in the service bay area of former maintenance building. Under NYSDEC direction, GES removed the tank and sent it off-Site as scrap metal for recycling.
- Between June 8 and July 23, 2012, dewatering activities were conducted in order to complete the excavations. Water that collected in the open excavations was pumped to one excavation designated as a holding pond. The water was left in this excavation to allow the majority of the sediment to settle from suspension before handling the water further. Once settled, the water was allowed to drain from the holding pond through on-Site trenches to areas of the Site designated by the NYSDEC as infiltration areas. These areas included the open excavation in the former maintenance building area and infiltration ponds/trenches installed in the areas to north of the excavations which were backfilled with sand during the first phase of activities in 2010. Absorbent booms were placed in the trench connecting the holding pond to the infiltration areas as a precautionary measure to pick up any minor amounts of sheen or free phase product that may be present in the water. See **Appendix A** pages 34 – 37 for dewatering photos.

- Soils that had been adequately treated were replaced into the open excavations in 6-12 inch lifts. Each lift was allowed to sit for 24 to 48 hours prior to being compacting with a dozer and setting another lift.

The approximate excavation area is displayed on **Figure 3**. Field PID readings are provided in **Table 1** and the PID locations are displayed on **Figure 4**.

4.3 Site Restoration & Decontamination Procedures

Once all of the excavated soils had been adequately treated, placed back in the open excavations and compacted the Site was graded based on guidance from the NYSDEC. It is estimated that after the final grading, some areas of the Site were raised approximately 2 feet from the initial grade. In order to mitigate future surface water runoff to the north, two drainage trenches were also installed parallel to the Mohawk River. These trenches would intercept any surface water runoff and creating a means for the water to infiltrate into the subsurface prior to reaching the river. The silt fence that had been in place during site activities was inspected and left in place to also aid in sediment control. An approximate area of 150 feet by 300 feet of the northern portion of the Site was hydro-seeded to further aid in erosion and sediment control. A batch consisting of 8 bales of mulch, 2 bags of fertilizer, 75lbs of seed, 1 bag of tack and 1,000 gallons of water was used to cover approximately every 12,000 square feet. See **Appendix A** for Site photos.

Upon completion of the remedial activities, all tools and equipment were decontaminated prior to leaving the Site. A solution of Liquinox and water was used to wash all surfaces of the items to rid them of any residual soils that may have collected on them during the completion of the work.

5.0 LABORATORY ANALYTICAL RESULTS

A total of 17 post remedial confirmatory soil samples were collected around the parameter sidewalls and the bottom of the excavation areas on-Site. The samples were submitted to TestAmerica Laboratory, Inc. in Buffalo, New York (TestAmerica Lab) under chain of custody for analysis of petroleum compounds listed on NYSDEC Commissioner Policy 51 (CP-51) Tables 1 and 3 via United States Environmental Protection Agency (US EPA) Method 8260 for VOCs and EPA Method 8270 for SVOCs. The laboratory analytical results are summarized in **Table 2**, and are shown on **Figure 5**. Copies of the laboratory analytical reports provided by TestAmerica Lab are attached as **Appendix B**.

Based on the results from the soil samples collected, it appears that all soils that exceeded the Unrestricted Use SCOs were excavated and treated during the remedial activities. Further evaluation of the data indicates the following:

- CP-51 Table 2 listed petroleum related VOCs:

  -Were not detected in concentrations above laboratory method detection limits (MDL) in samples Sidewall 3, Bottom 4, Sidewall K3, Sidewall L2, Sidewall Q16, Sidewall S18, and Sidewall S19.

  -Were detected in very low concentrations above laboratory MDL but below CP-51 SCO and supplemental soil cleanup objectives (SSCOs) for Unrestricted Use in samples Bottom 1, Bottom 2, Bottom 3, Sidewall 1, Sidewall 2, Sidewall K5, Sidewall K8, Sidewall O6, Sidewall O1, and Sidewall P4.

- CP-51 Table 3 listed petroleum related SVOCs:

-Were not detected in concentrations above laboratory MDL in the samples Bottom 4 and Sidewall O1.

-Were detected in concentrations above laboratory MDL but below CP-51 SCO and SSCOs for Unrestricted Use in samples Bottom 1, Bottom 2, Bottom 3, Sidewall 1, Sidewall 2, Sidewall 3, Sidewall K3, Sidewall K5, Sidewall K8, Sidewall L2, Sidewall O6, Sidewall P4, Sidewall Q16, and Sidewall S18.

-Most concentrations were below CP-51 Unrestricted Use SCO and SSCO with the exception of Sidewall S19. Only two compounds, Benzo(a)pyrene and Benzo(b)fluoranthene, were detected in Sidewall S19 at a concentration of 1,100 ug/kg. These two compounds exceeded the Unrestricted SCO by 100 ug/kg, the Unrestricted SCO is 1,000 ug/kg.

6.0 POST REMEDIATION REVIEW

As the NYSDECs' requested, GES has reviewed the project and developed the below list of recommendations for future projects were on-site soil turning is selected as a remedial remedy:

- Completion of test pits in the planning phases of the remedial remedy would be beneficial and provide information relevant to the on-site turning scope. Although, delineation of impacts, both vertically and horizontally can be completed through drilling methods, test pits give a better understanding of the soils when it comes to turning them. Characteristics of the type and size of debris (metal, brick, concrete, and wood) mixed in with the soils can be visually seen. Also, a more realistic understanding of how the soils other characteristics (moisture content and grain size) will effect their ability to be turned can be gathered. The amount of time to segregate large debris and complete the first turning cycle on the soils is directly related to the amount, type and size of the debris present. The information gathered from the test pits will also aid in selecting the appropriate soil turning equipment.

- Delineation of the soils to be treated is a key factor for use in the planning of completing a soil turning project. It is well known that delineation allows an estimation of the volume of soil to be handled, but another factor that could be overlooked, is how the locations, volume and level of impacts of the soils can effect the overall efficiency of the project. In the planning stages of a soil turning project, it is beneficial to outline a detailed soil handling plan that orchestrates the excavation, turning and backfilling pieces of the scope. This allows the site to be manipulated in a way that keeps adequate space open and aids in determining what equipment is needed for what time periods during the completion of the activities. Things to consider in this plan included but are not limited to; How will the excavations be advanced across the site? Where will soils be initially placed once excavated? How many times do the soils need to be turned prior to being placed back in open excavations? Where will equipment be placed and where will designated travel paths be located? For projects that would have to be completed over multiple mobilizations, this would also allow stop/start points to be determined.

- At OU1, the moisture content and grain size of the soils did affect the efficiency at which the soils could be turned. Soils with high moisture, combined with clay and silt in the soil matrix increases the time to turn the soils. Based on the completion of the work at OU1, it seems that these issues can be overcome in two ways. With both scenarios, a slower rate of production should be expected in the initial turning of the soils:

- Scenario 1: As soils with high moisture and/or clay content are excavated from the subsurface they can be mixed/turned with soils that are staged at grade that contain lower moisture content and/or have already been turned. This seems to help increase overall production for the project by redistributing the moisture present over a large volume of soil.
- Scenario 2: Newly excavated soils can be staged in windrows and allowed to dry for a period of time before they are turned.

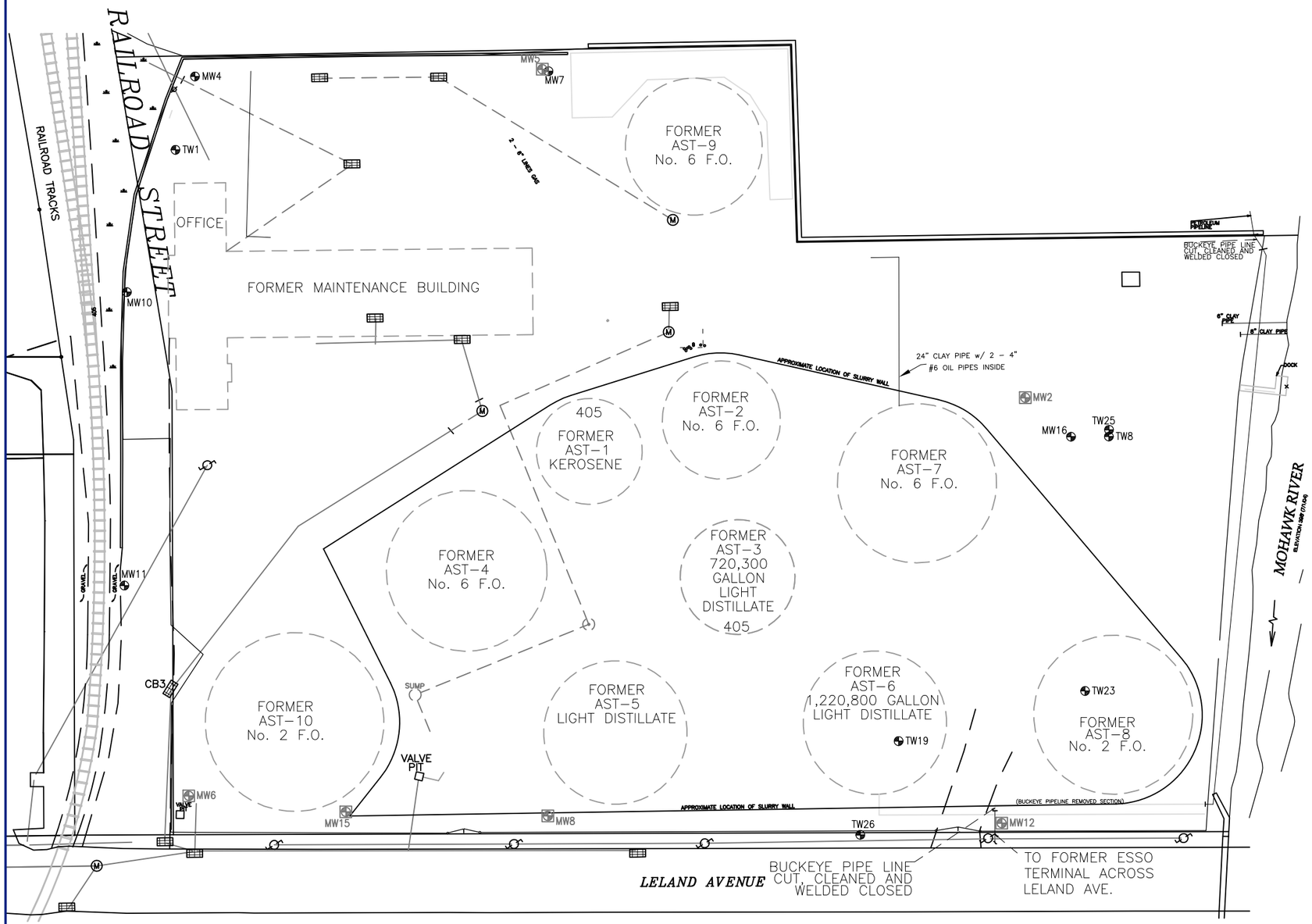
- The time of year selected to complete on-site soil turning is also a factor that will effect production. Dryer and warmer weather conditions helped increase production rates for the turning of the on-site soils. Although, soil grain size may also be a factor as larger grained soils with higher percentages of sands and lower percentages of clay and silt may not be affected by moisture content as much as finer grained soils.

7.0 CONCLUSION

Between October 19 and October 28, 2011 and May 21though August 20, 2012 approximately 25,782 cubic yards of soil from the Site were mechanically turned utilizing an Allu™ bucket technology attached to a standard excavator. All soils displaying any nuisance characteristics were treated on-Site until the soils met the established Site criteria. The Site criteria included the absence of olfactory indications of petroleum odors, absence of visual indications of petroleum staining, and PID readings less than 50 ppm along the sidewall and bottom of the excavation.

Confirmatory sampling identified that the NYSDEC CP-51 SCO for Unrestricted Use were met for all areas, with the exception of Sidewall Sample S19. Only two compounds, Benzo(a)pyrene and Benzo(b)fluoranthene, were detected in Sidewall sample S19 at a concentration of 1,100 ug/kg. These two compounds exceeded the Unrestricted SCOs. However, these levels are below the NYSDEC CP-51 SCO Restricted Use Protection of Groundwater and are not expected to persist.

FIGURES



LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- MONITORING WELL
- DESTROYED MONITORING WELL

DRAFTED BY: E.M.E. (N.J.)	**SITE MAP**
CHECKED BY: KAT	**NYSDEC SPILL #88-09026** **201 LELAND AVENUE** **UTICA, NEW YORK**
REVIEWED BY: JD	**Groundwater & Environmental Services, Inc.** 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 11–5–12 / FIGURE: 1

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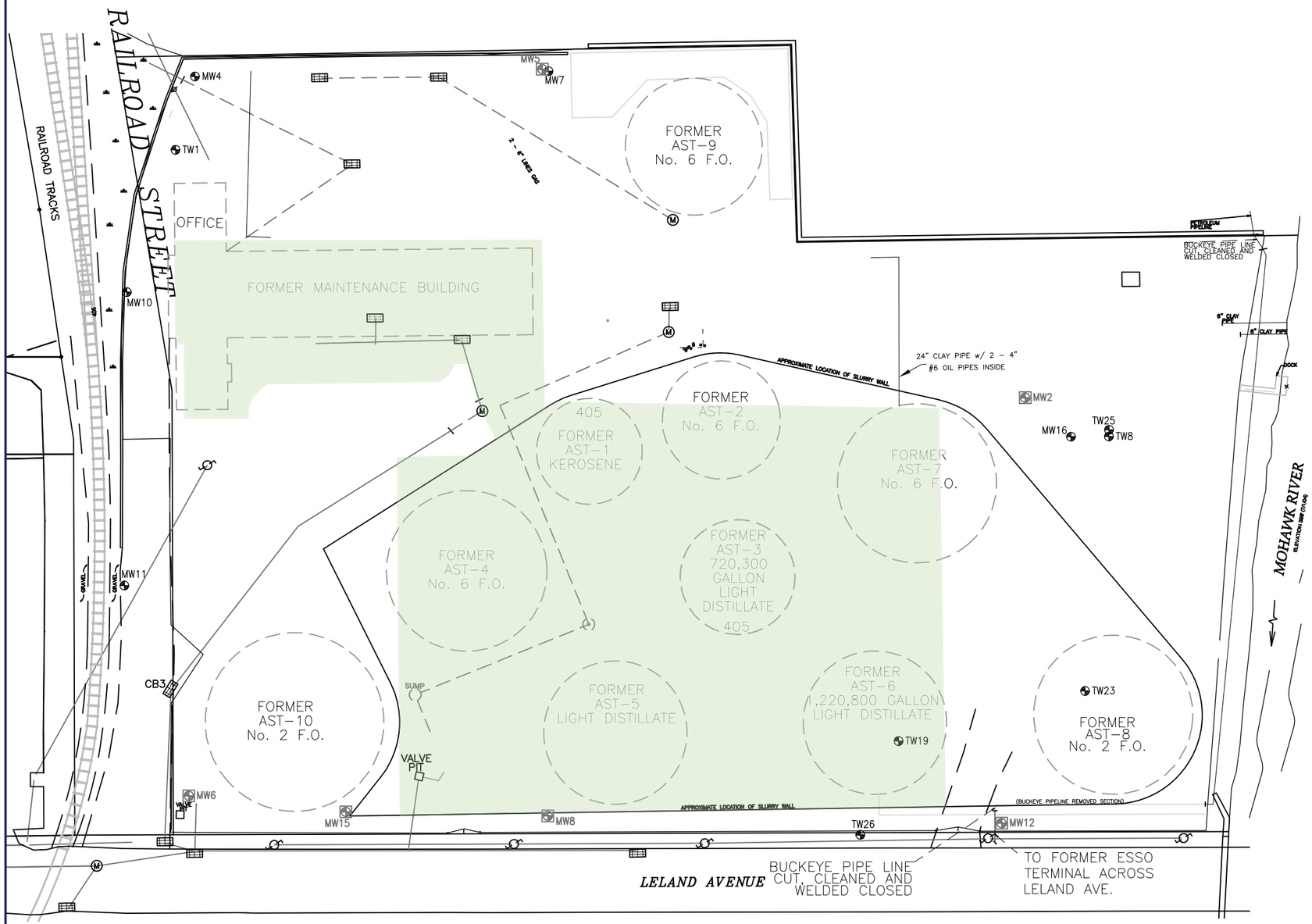
DRAFTED BY: KAT	SITE LOCATION MAP
CHECKED BY: KAT	FORMER MATT PETROLEUM SITE 102 LELAND AVENUE UTICA, NEW YORK
REVIEWED BY: JD	Groundwater & Environmental Services, Inc. 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
NORTH	SCALE IN FEET: 0 APPROXIMATE 250 / DATE: 10-3-12 / FIGURE: 2



LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- MONITORING WELL
- DESTROYED MONITORING WELL
- PROPOSED EXCAVATION AREA

DRAFTED BY: E.M.E. (N.J.)	APPROXIMATE EXCAVATION AREA
CHECKED BY: KAT	NYSDEC SPILL #88-09026 201 LELAND AVENUE UTICA, NEW YORK
REVIEWED BY: JD	Groundwater & Environmental Services, Inc. 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 11–5–12 / FIGURE: 3

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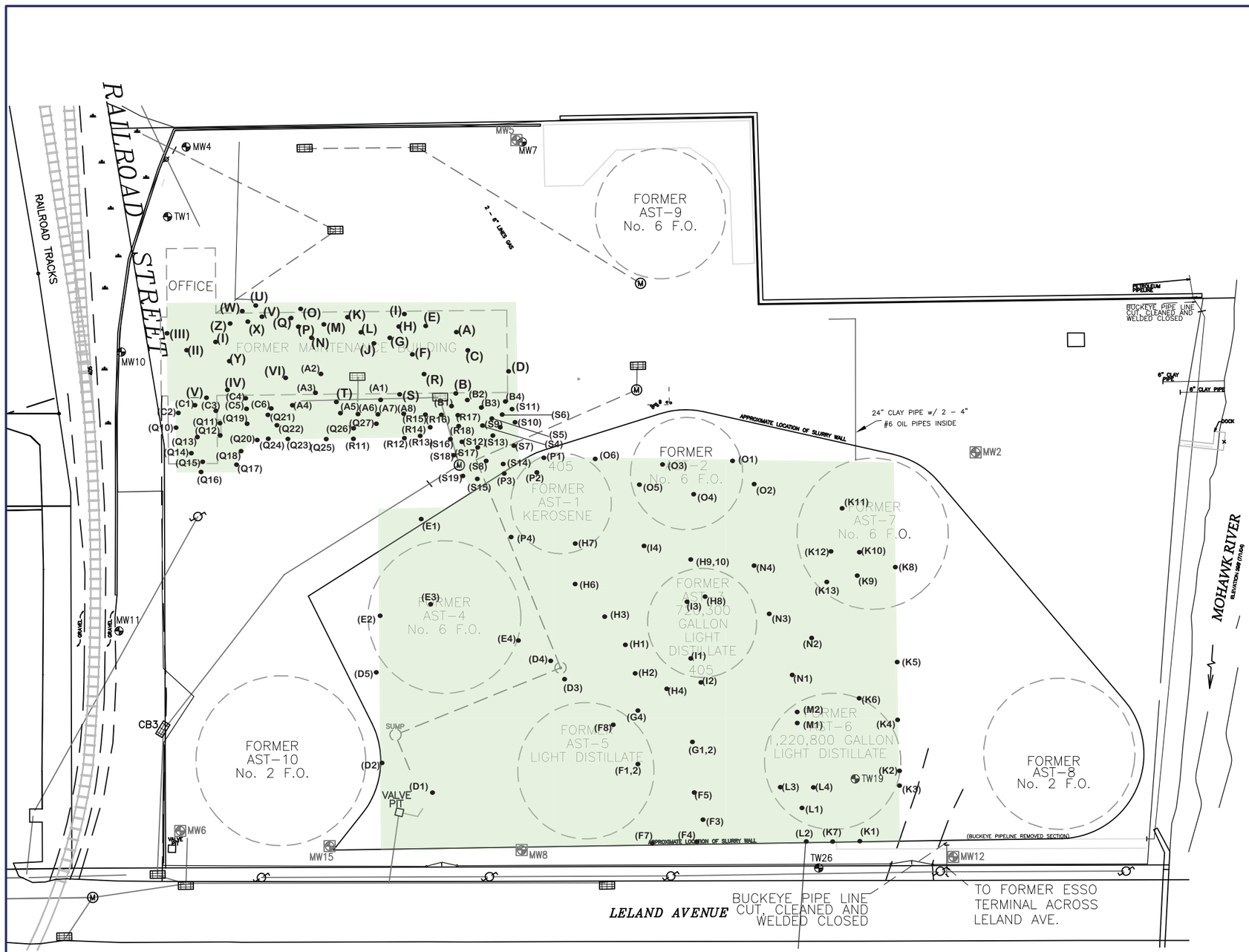

LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- MONITORING WELL
- DESTROYED MONITORING WELL
- PROPOSED EXCAVATION AREA

DRAFTED BY: E.M.E. (N.J.)	**PID LOCATION MAP**
CHECKED BY: KAT	**NYSDEC SPILL #88-09026** **201 LELAND AVENUE** **UTICA, NEW YORK**
REVIEWED BY: JD	**Groundwater & Environmental Services, Inc.** 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 11-5-12 / FIGURE: 4

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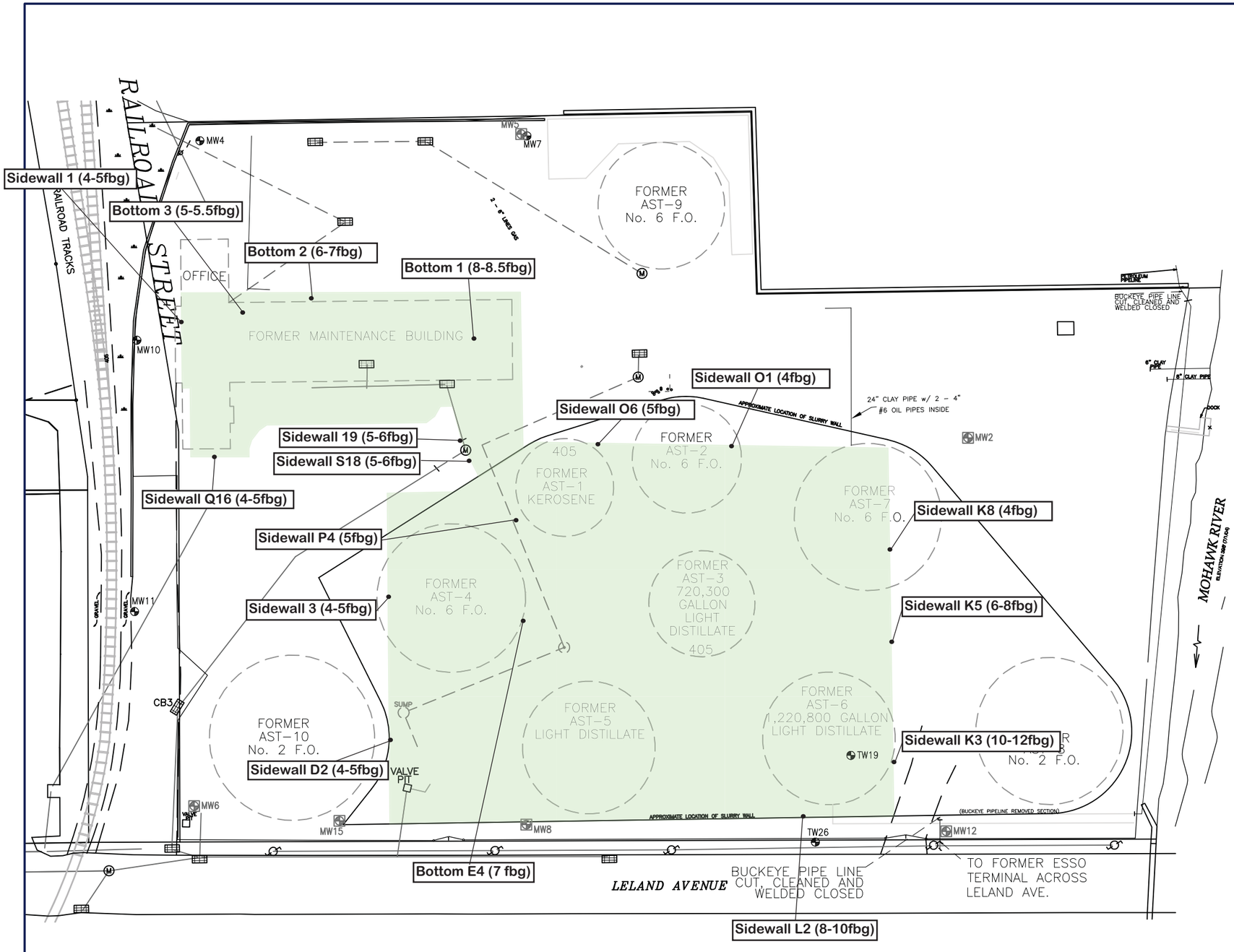

LEGEND

- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- MONITORING WELL
- DESTROYED MONITORING WELL
- PROPOSED EXCAVATION AREA

DRAFTED BY: E.M.E. (N.J.)	CONFIRMATORY SAMPLE LOCATION MAP
CHECKED BY: KAT	NYSDEC SPILL #88-09026 201 LELAND AVENUE UTICA, NEW YORK
REVIEWED BY: JD	Groundwater & Environmental Services, Inc. 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 11-5-12 / FIGURE: 5

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TABLES

Table 1

PHOTOIONIZATION DETECTOR (PID) READINGS

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Day #	Date	Location ID	Depth (ft)	PID reading (ppm)	Sample ID
Day 8	5/31/2012	A	~6fbg	303	
		B	~7fbg	666	
		C	8-8.5 fbg	200	Bottom 1 (8-8.5fbg) @ 1200
		D	6-7 fbg	21.4	
Day 9	6/1/2012	E	5	320	
		F	8	45.1	
		G	6	47	
		H	8	17	
		I	5-6	2	
		J	5-6	208	
		K	4-5	720	
		L	6	25.4	
Day 10	6/4/2012	M	4-5	174	
		N	4	138	
		O	6-7	9.8	Bottom 2 (6-7fbg) @0853
		P	4-5	983	
		Q	4-5	703	
		R	4-5	308	
		S	5	535	
		T	4-5	515	
Day 11	6/5/2012	U	4	140	
		V	4-5	97.2	
		W	3	450	
		X	4	46.1	
		Y	4	322	
		Z	5-5.5	12.0	Bottom 3 (5-5.5fbg) @0911
		(I)	4-5	133	
		II	3	183	
		III	4.5-5	187	Sidewall 1 (4.5-5fbg) @ 1115
		IV	5-6	7.0	
		(V)	4	180	
		VI	5-6	287	
Day 12	6/6/2012	A1	4-4.5	386	
		A2	7.5-8	212	
		A3	5-6	82.1	
		A4	4-5	201	
		A5	5.5-6	73.1	
		A6	7.5-8	62.9	
		A7	5.5-6	435	
		A8	5-5.5	587	
Day 13	6/7/2012	B1	4.5-5	835	
		B2	7.5-8	135	
		B3	4-4.5	820	
		B4	4.5-5	744	
Day 16	6/12/2012	C1	6	96.1	
		C2	7	186	
		C3	4	99.1	
		C4	10	63.4	
		C5	8	153	
		C6	5	436	

Table 1

PHOTOIONIZATION DETECTOR (PID) READINGS

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Day #	Date	Location ID	Depth (ft)	PID reading (ppm)	Sample ID
Day 18	6/14/2012	-	-	40.2	
		-	-	48.4	
		-	-	60.1	
		D1	7	8	
		D2	4-5	146	Sidewall 2 (4-5 fbg) @1300
		D3	6-7	130	
		D4	6-7	120	
		D5	4-5	0.7	
Day 19	6/15/2012	E1	4-5	5.0	
		E2	4-5	6.8	Sidewall 3 (4-5 fbg) @ 0915
		E3	7	0.0	
		E4	7	0.3	Bottom 4 (7 fbg) @ 1100
		E5	-	214	Soil pile screening
Day 20	6/18/2012	F1	6	15.0	
		F2	6-7	40.0	
		F3	6-7	12.0	
		F4	5-6	7.0	
		F5	6-7	61.0	
		F6	-	228.0	Soil pile screening
		F7	6-7	0.5	
		F8	6-7	21.9	
		F9	-	161.0	Soil pile screening
Day 21	6/19/2012	G1	5	106	
		G2	6	294	
		G3	-	245	Soil pile screening
		G4	6	154	
Day 23	6/21/2012	H1	5-6	425	
		H2	5-6	39.6	
		H3	4-5	36.1	
		H4	5-6	8	
		H5	-	57.8	Soil pile screening
		H6	5-6	0.6	
		H7	5-6	440	
		H8	5-6	11.8	
		H9	4	547	
		H10	5	132	
Day 26	6/26/2012	I1	6	0.5	
		I2	5-6	12.1	
		I3	4-5	176	
		I4	4-5	280	
		I5	-	32	Soil pile screening
		I6	-	120	Soil pile screening
Day 28	6/28/2012	J1	-	88.1	Soil pile screening
		J2	-	55.4	Soil pile screening
		J3	-	40.2	Soil pile screening
Day 31	7/3/2012	K1	4-5	12.4	
		K2	10-12	260	
		K3	10-12	1.9	SIDEWALL K3 (10-12 fbg)
		K4	8-10	104	
		K5	6-8	16.2	SIDEWALL K5 (6-8 fbg)
		K6	bottom	68.9	
		K7	6-8	31.2	
		K8	4	0	SIDEWALL K8 (4 fbg)
		K9	5	0	
		K10	4	42	
		K11	4	71	
		K12	4	112	
		K13	4	121	

Table 1

PHOTOIONIZATION DETECTOR (PID) READINGS

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Day #	Date	Location ID	Depth (ft)	PID reading (ppm)	Sample ID
Day 32	7/5/2012	L1	6	114	
		L2	8-10	6.2	SIDEWALL L2 (8-10 fbg)
		L3	8	2.2	
		L4	8	14.7	
Day 35	7/10/2012	M1	7-7.5	5.1	
		M2	5-6	159	
Day 37	7/12/2012	N1	4-5	1135	
		N2	4-5	100	
		N3	5-6	1212	
		N4	7	24.1	
Day 39	7/16/2012	O1	4	1.1	Sidewall O1 (4 fbg)
		O2	6	74.7	
		O3	5	20.1	
		O4	6	43.2	
		O5	7	52.3	
		O6	5	7.4	Sidewall O6 (5 fbg)
Day 40	7/17/2012	P1	7	270	
		P2	8	54.2	
		P3	6	247	
		P4	5	24.7	Sidewall P4 (5 fbg)
Day 45	7/24/2012	Q1	-	150	Soil pile screening
		Q2	-	150	Soil pile screening
		Q3	-	130	Soil pile screening
		Q4	-	50	Soil pile screening
		Q5	-	130	Soil pile screening
		Q6	-	110	Soil pile screening
		Q7	-	30.1	Soil pile screening
		Q8	-	65.2	Soil pile screening
		Q9	-	36	Soil pile screening
		Q10	4-5	227	
		Q11	4-5	9.8	
		Q12	4-5	452	
		Q13	4-5	580	
		Q14	4-5	780	
		Q15	4-5	243	
		Q16	4-5	4.4	Sidewall Q16 (4-5fbg) @0927
		Q17	4-5	63	
		Q18	4-5	140	
		Q19	4-5	860	
		Q20	4-5	80	
		Q21	5	1688	
		Q22	5	608	
		Q23	4-4.5	1300	
		Q24	4-5	1	
		Q25	4-5	6	
		Q26	4-5	350	
		Q27	4-5	860	
		Q28	-	200	Soil pile screening
		Q29	-	150	Soil pile screening
		Q30	-	148	Soil pile screening
		Q31	-	27.2	Soil pile screening
		Q32	-	21.1	Soil pile screening
		Q33	-	110	Soil pile screening

Table 1

PHOTOIONIZATION DETECTOR (PID) READINGS

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Day #	Date	Location ID	Depth (ft)	PID reading (ppm)	Sample ID
Day 47	7/26/2012	R1	-	110	Soil pile screening
		R2	-	115	Soil pile screening
		R3	-	153	Soil pile screening
		R4	-	230	Soil pile screening
		R5	-	200	Soil pile screening
		R6	-	205	Soil pile screening
		R7	-	183	Soil pile screening
		R8	-	45.2	Soil pile screening
		R9	-	68.9	Soil pile screening
		R10	-	80	Soil pile screening
		R11	5	10.1	
		R12	5	1.1	
		R13	5	0	
		R14	5-6	110	
		R15	5	438	
		R16	5	5.1	
		R17	6	380	
		R18	5	1462	
Day 50	7/31/2012	S1	-	100	Soil pile screening
		S2	-	75	Soil pile screening
		S3	-	246	Soil pile screening
		S4	7-7.5	76	
		S5	5-6	446	
		S6	5-6	447	
		S7	4	360	
		S8	4	500	
		S9	5-6	1042	
		S10	3	740	
		S11	5-5.5	520	
		S12	5-6	87.5	
		S13	5-6	120	
		S14	5-6	70	
		S15	5-6	21.5	
		S16	5-6	70.1	
		S17	5-6	432	
		S18	5-6	38.7	Sidewall S18 (5-6fbg) @ 1510
		S19	5-6	5	Sidewall S19 (5-6fbg) @ 1515
Day 51	8/2/2012	T1	-	93	Soil pile screening
		T2	-	73	Soil pile screening
		T3	-	175	Soil pile screening
		T4	-	226	Soil pile screening
		T5	-	188	Soil pile screening
		T6	-	337	Soil pile screening
		T7	-	149	Soil pile screening
		T8	-	135	Soil pile screening

Table 2

SUMMARY OF SOIL QUALITY (VOCs and SVOCs)

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Analyte	NYSDEC CP-51 SCO UnRestricted Use	NYSDEC CP-51 SCO Restricted Use Protection of Groundwater	BOTTOM 1 (8-8.5 fbg) 5/31/2012	BOTTOM 2 (6-7 fbg) 6/4/2012	BOTTOM 3 (5-5.5 fbg) 6/5/2012	SIDEWALL 1 (4.5-5 fbg) 6/5/2012	SIDEWALL 2 (4-5 fbg) 6/14/2012	SIDEWALL 3 (4-5 fbg) 6/15/2012	BOTTOM 4 (7 fbg) 6/15/2012	SIDEWALL K3 (10-12 fbg) 7/3/2012	SIDEWALL K5 (6-8 fbg) 7/3/2012	SIDEWALL K8 (4 fbg) 7/3/2012	SIDEWALL L2 (8-10 fbg) 7/5/2012	Sidewall O6 (5 fbg) 7/16/2012	Sidewall O1 (4 fbg) 7/16/2012	Sidewall P4 (5 fbg) 7/16/2012	SIDEWALL Q16 (4-5 fbg) 7/24/2012	SIDEWALL S18 (5-6 fbg) 7/31/2012	SIDEWALL S19 (5-6 fbg) 7/31/2012
			200	9.8	12.0	187	146	6.8	0.3	1.9	16.2	0	6.2	7.4	1.1	24.7	4.4	38.7	5
EPA 8270 STARS																			
Acenaphthene	20,000	98,000	ND	10 J	58 J	190 J	300	ND	ND	ND	17 J	34 J	ND	8.1 J	ND	ND	ND	ND	11 J
Acenaphthylene	100,000	107,000	ND	ND	ND	140 J	56 J	ND	ND	ND	5.8 J	5.1 J	ND	8.6 J	ND	ND	ND	ND	200 J
Anthracene	100,000	1,000,000	38 J	ND	25 J	110 J	870	53 J	ND	17 J	23 J	ND	ND	ND	ND	ND	ND	76 J	120 J
Benzo(a)anthracene	1,000	1,000	15 J	12 J	21 J	18 J	56 J	160 J	ND	87 J	65 J	18 J	36 J	ND	ND	440 J	27 J	280 J	630
Benzo(a)pyrene	1,000	22,000	ND	ND	16 J	9.7 J	7.1 J	170 J	ND	95 J	49 J	37 J	40 J	ND	ND	ND	25 J	270 J	**1,100**
Benzo(b)fluoranthene	1,000	1,700	7.5 J	8.7 J	23 J	14 J	11 J	200 J	ND	79 J	65 J	ND	44 J	ND	ND	540 J	37 J	360 J	**1,100**
Benzo(g,h,i)perylene	100,000	1,000,000	ND	ND	20 J	9.5 J	ND	ND	ND	32 J	14 J	ND	ND	ND	ND	ND	ND	ND	590
Benzo(k)fluoranthene	800	1,700	5.2 J	5.5 J	10 J	7.8 J	4.8 J	90 J	ND	50 J	43 J	ND	24 J	ND	ND	ND	20 J	230 J	400
Chrysene	1,000	1,000	9.4 J	9.7 J	24 J	17 J	62 J	150 J	ND	77 J	73 J	13 J	34 J	ND	ND	510 J	29 J	300 J	630
Dibenz(a,h)anthracene	330	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86 J
Fluoranthene	100,000	1,000,000	ND	14 J	31 J	50 J	260	360 J	ND	200 J	170 J	39 J	59 J	ND	ND	1,000 J	51 J	360 J	1,100
Fluorene	30,000	386,000	87 J	17 J	150 J	450	830	ND	ND	ND	31 J	47 J	ND	23 J	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	8,200	ND	ND	13 J	ND	ND	ND	ND	27 J	16 J	ND	ND	ND	ND	250 J	ND	120 J	420
Naphthalene	12,000	12,000	ND	ND	190 J	100 J	22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	1,000,000	200 J	47 J	180 J	520	2,700	270 J	ND	79 J	26 J	30 J	27 J	26 J	ND	740 J	ND	190 J	310
Pyrene	100,000	1,000,000	39 J	20 J	43 J	65 J	980	260 J	ND	240	160 J	34 J	67 J	ND	ND	870 J	42 J	350 J	1,400
Total SVOCs STARS			401.1	143.9	804	1,701	6,158.9	1,713	ND	983	757.8	257.1	331	65.7	ND	4,350	231	2,536	8,097
EPA 8260 STARS																			
Benzene	60	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	700	ND	ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m-Xylene & p-Xylene	260**	1,600	ND	ND	1.6 J	ND	ND	ND	ND	ND	4.4 J	1.8 J	ND	ND	ND	ND	ND	ND	ND
o-Xylene	260**	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	260**	1,600	ND	ND	1.6 J	ND	ND	ND	ND	ND	4.4 J	1.8 J	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	2,300	11	1.6 J	12	28	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	3,900	3,900	16	1.4 J	8.1	38	2.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	10,000	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	3,600	2.4 J	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	8,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	12,000	ND	ND	2.1 J	ND	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	12,000	2.3 J	0.88 J	1.7 J	ND	1.7 J	ND	ND	ND	ND	ND	ND	2.4 J	1.4 J	1.4 J	ND	ND	ND
Methyl tert-butyl ether	930	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	5,900	1.1 J	ND	1.2 J	5.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total BTEX			ND	ND	2.12	ND	ND	ND	ND	ND	4.4	1.8	ND	ND	ND	ND	ND	ND	ND
Total VOCs STARS			32.8	3.88	27.22	71.9	12.8	ND	ND	ND	6.4	1.8	ND	2.4	1.4	1.4	ND	ND	ND

Notes:

All concentrations reported in ug/kg

ND = none detected above laboratory limit

Bold type indicates that compound exceeds NYSDEC CP-51 Recommended Soil Cleanup Objectives for UnRestricted Use

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

**= No SCO for this compound

Table 3

COSTS TO COMPLETE FIELD ACTIVITIES

NYSDEC Former Matt Petroleum Facility (Spills #88-09026)
201 Leland Avenue
Utica, New York

Totals		
Total Project Budget	$	600,000.00
Costs to Complete Field Activities Only (Invoiced)		
Consultant Oversight (*field activities only*)	$	64,381.66
Contractor Costs *(field activities only)*	$	506,674.64
Total *(field activities only)*	$	571,056.30

Weekly Rate for Equipment Only		
Week	**Costs**	**List of Equipment**
Week 1	$13,341.70	50 size Excavator (PC50), 300 Size Excavator, & Allu Excavator*
Week 2	$12,620.44	300 Size Excavator & Allu Excavator
Week 3	$16,672.73	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 4	$17,270.86	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 5	$15,835.36	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 6	$16,672.73	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 7	$14,414.81	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 8	$15,700.78	300 Size Excavator, Allu Excavator, & Godwin pump for dewatering
Week 9	$23,476.41	300 Size Excavator, Allu Excavator, Godwin pump for dewatering, & D61 Dozer
Week 10	$21,592.31	300 Size Excavator, Allu Excavator, & D61 Dozer
Week 11	$20,884.73	300 Size Excavator, Allu Excavator, & D61 Dozer
Week 12	$21,592.31	300 Size Excavator, Allu Excavator, D61 Dozer, & Godwin pump for dewatering (2 days)
Weel 13	$26,203.86	300 Size Excavator, Allu Excavator, D61 Dozer, Hydro Seeder, & Decon Equipment**
Week 14 (1 Day)	$4,229.35	300 Size Excavator, D61 Dozer, & Decon Equipment

Notes:

*Allu Excavator SMH 3-23, 2.5 cubic yards

**Decon Equipment includes van, powerwasher, 250 gallon tank, pump, hose, generator

APPENDIX A

Site Photos

Phase I Photos: October 10, 2011 to November 1, 2011

Photo #1: October 10, 2011 – Vacant brick building.

Photo #2: October 10, 2011 – Pre-excavation site photo.

Photo #3: October 10, 2011 – Pre-excavation site photo.

Photo #4: October 10, 2011 – Pre-excavation site photo, three staged soil piles.

Photo #5: October 10, 2011 – Pre-excavation site photo.

Photo #6: October 10, 2011 – Pre-excavation site photo.

Photo #7: October 10, 2011 – Installation of silt fencing along northern property line.

Photo #8: October 10, 2011 – Installation of silt fencing along northern property line.

Photo #9: October 10, 2011 – Installation of silt fencing along northern property line.

Photo #10: October 10, 2011 – Trenching drainage ditch around northern property line.

Photo #11: October 10, 2011 – Beginning Phase I: Moving staged soil to new windrows.

Photo #12: October 10, 2011 – Phase I: Staging new windrows in northwest corner of property.

Photo #13: October 11, 2011 – Phase I: Building a road across proposed excavation area to load dump trucks.

Photo #14: October 11, 2011 – Phase I: Separating out large debris and concrete.

Photo #15: October 11, 2011 – Phase I: Shaping new Windrow 1.

Photo #16: October 12, 2011 – Phase I: Loading staged soil into dump trucks, which then dump into the new windrows.

Photo #17: October 13, 2011 – Phase I: Excavating the 3rd staged soil pile.

Photo #18: October 13, 2011 – Phase I: Excavating the 3rd staged soil pile, excavated ~1062 yd^3 to date.

Photo #19: October 17, 2011 – Phase I: Excavating the 3rd staged soil pile.

Photo #20: October 17, 2011 – Phase I: 1st and 2nd staged soil piles completed.

Photo #21: October 17, 2011 – Phase I: Loaded dump truck moving stage soil to new windrows.

Photo #22: October 18, 2011 – Phase I: Beginning Excavation 1, and staging new Windrow 4.

Photo #23: October 18, 2011 – Phase I: Excavation 1 and Window 4.

Photo #24: October 19, 2011 – Beginning of Phase II: Aeration of Windrow 1 via Allu excavator.

Photo #25: October 19, 2011 –Phase II: Aeration of Windrow 1 via Allu excavator.

Photo #26: October 20, 2011 –Phase II: Aeration of Windrow 1 via Allu excavator.

Photo #27: October 21, 2011 –Phase I: Completion of Excavation 1.

Photo #28: October 21, 2011 –Phase I: Completion of Excavation 1, to ~5 to 5.5 feet below grade (fbg), in the northwest corner of the excavation.

Photo #29: October 21, 2011 –Phase I: Completion of Excavation 1.

Photo #30: October 21, 2011 –Phase I: Completion of Excavation 2, to ~4.5 to 5 fbg.

Photo #31: October 21, 2011 –Phase I: Completion of Excavation 2.

Photo #32: October 21, 2011 –Phase I: Completion of Excavation 2.

Photo #33: October 21, 2011 –Phase I: Beginning of Excavation 3.

Photo #34: October 24, 2011 –Phase I: Continuation of Excavation 3.

Photo #35: October 24, 2011 –Phase I: Uncovered a former in-active drain within Excavation 3.

Photo #36: October 28, 2011 –Phase I: Completion of Excavation 3, ~4.5 to 5 fbg.

Photo #37: October 28, 2011 –Phase I: Completion of Excavation 3.

Photo #38: October 28, 2011 –Phase I: Completion of Excavation 3, and Windrow 5.

Photo #39: October 28, 2011 –Phase I: Completion of dressing Windrow 4, covering Allu soil pile 1 and dressing Windrows 1 and 2.

Photo #40: October 28, 2011 –Phase I: Completion of dressing Windrow 3.

Photo #41: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #42: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #43: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #44: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #45: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #46: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #47: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #48: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #49: November 1, 2011 –Phase I: Completion of excavations and windows, winterization of site with orange snow fencing.

Photo #50: November 1, 2011 –Phase I: Winterization of windrows via plastic sheeting and sand bags to reduce potential run off.

Photo #51: November 1, 2011 –Phase I: Winterization of windrows with plastic sheeting and sand bags to reduce potential run off.

Photo #52: November 1, 2011 –Phase I: Winterization of windrows with plastic sheeting and sand bags to reduce potential run off.

Photo #53: November 1, 2011 –Phase I: Winterization of windrows with plastic sheeting and sand bags to reduce potential run off.

Photo #54: November 1, 2011 –Phase I: Winterization of windrows with plastic sheeting and sand bags to reduce potential run off.

Phase II Photos: May 21, 2012 to August 20, 2012

Photo #55: May 21, 2012 –Phase II: Removing plastic sheeting from 2011 winterization activities.

Photo #56: May 21, 2012 –Phase II: Removing plastic sheeting from 2011 winterization activities.

Photo #57: May 21, 2012 –Phase II: Removing plastic sheeting from 2011 winterization activities.

Photo #58: May 21, 2012 –Phase II: Excavation areas with water pools due to winter weather.

Photo #59: May 21, 2012 –Phase II: Excavation areas with water pools due to winter weather.

Photo #60: May 22, 2012 –Phase II: Allu ™ Excavator.

Photo #60: May 22, 2012 –Phase II: Started alluing Windrow 3.

Photo #61: May 23, 2012 –Phase II: Continue alluing Windrow 3.

Photo #62: May 23, 2012 –Phase II: Continue alluing Windrow 3 into stockpile.

Photo #63: May 24, 2012 –Phase II: Continue alluing Windrow 3 into stockpile.

Photo #64: May 31, 2012 –Phase II: Started alluing Windrow and started excavating under the former building.

Photo #65: June 1, 2012 –Phase II: Continue excavation activities under the former building.

Photo #65: June 7, 2012 –Phase II: Start excavating and alluing Windrow 5 within the excavation area.

Photo #66: June 8, 2012 –Phase II: Start dewater activities. Pumping from Excavation 2 into Excavation 1.

Photo #67: June 8, 2012 –Phase II: Dewatering activities. Pumping from Excavation 2 into Excavation 1.

Photo #68: June 8, 2012 –Phase II: Dewatering activities. Settling pond.

Photo #69: June 8, 2012 –Phase II: Dewatering activities. Settling pond in the SE corner of Excavation 1.

Photo #70: June 8, 2012 –Phase II: Dewatering activities. Water flowing out of Excavation 1 along the NW side.

Photo #71: June 8, 2012 –Phase II: Dewatering activities. Water flows into this filtration pond, overflow passes thru 2nd boom and into the onsite drainage trench.

Photo #72: June 8, 2012 – Phase II: Dewatering activities. On-site drainage trench.

Photo #73: June 14, 2012 – Phase II: Started excavating within excavation 3.

Photo #74: June 14, 2012 – Phase II: Dewatered excavation 2.

Photo #75: June 26, 2012 – Phase II: Started excavating within excavation 2.

Photo #76: June 26, 2012 – Phase II: Dewatered excavation 1.

Photo #77: June 28, 2012 – Phase II: Excavation 3 and 2 backfilled.

Photo #78: July 7, 2012 – Phase II: Started excavating excavation 1.

Photo #79: July 10, 2012 – Phase II: Continue excavating east of the former building.

Photo #80: July 16, 2012 – Phase II: Continue excavating and alluing.

Photo #81: July 17, 2012 – Phase II: Backfilling excavation with dozer.

Photo #82: July 17, 2012 – Phase II: Continue Alluing.

Photo #83: July 19, 2012 – Phase II: Dewatering excavation under former building.

Photo #84: July 19, 2012 – Phase II: Backfilled excavation and remaining soil to be allued.

Photo #85: July 24, 2012 – Phase II: Former building excavation backfilled with brick.

Photo #86: July 24, 2012 – Phase II: Excavation east of former building down to clay layer.

Photo #87: August 13, 2012 – Phase II: Continue backfilling and alluing soils

Photo #88: August 15, 2012 –Phase II: Hydro Seed equipment.

Photo #89: August 17, 2012 –Phase II: Hydro Seed location along northern portion of the property.

Photo #90: August 17, 2012 –Phase II: Hydro Seed location along northern portion of the property.

Photo #91: August 17, 2012 –Phase II: Continue grading and alluing remaining soils.

Photo #92: August 20, 2012 –Phase II: Final restoration and grading.

Photo #93: August 20, 2012 –Phase II: Final restoration and grading.

Photo #94: August 20, 2012 –Phase II: Final restoration and grading.

Photo #95: August 20, 2012 –Phase II: Final restoration and grading.

Photo #96: August 20, 2012 –Phase II: Final restoration and grading.

Photo #97: August 20, 2012 –Phase II: Final restoration and grading.

Photo #98: August 20, 2012 –Phase II: Final restoration and grading.

Photo #99: August 20, 2012 –Phase II: Final restoration and grading.

Photo #100: August 20, 2012 –Phase II: Final restoration and grading.

Photo #101: October 29, 2012 –Phase II: Hydro-seed growth.

Photo #102: October 29, 2012 –Phase II: Hydro-seed growth.

Photo #103: October 29, 2012 –Phase II: Hydro-seed growth.

APPENDIX B

Analytical Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-21045-1
Client Project/Site: Utica #8809026 / PIN H1130

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

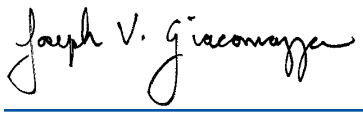
Joseph V. Giacomazza

Authorized for release by:
6/15/2012 12:16:35 PM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
6/15/2012 12:16:35 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-21045-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-21045-1

Receipt
The samples were received on 6/8/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Client Sample ID: BOTTOM 1 (5-8.5 FBG)
Date Collected: 05/31/12 12:00
Date Received: 06/08/12 09:00

Lab Sample ID: 480-21045-1
Matrix: Solid
Percent Solids: 75.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.32	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Ethylbenzene	ND		6.5	0.45	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Toluene	ND		6.5	0.49	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
o-Xylene	ND		6.5	0.85	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Isopropylbenzene	**11**		6.5	0.98	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
N-Propylbenzene	**16**		6.5	0.52	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
4-Isopropyltoluene	ND		6.5	0.52	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
1,2,4-Trimethylbenzene	**2.4**	**J**	6.5	1.3	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
1,3,5-Trimethylbenzene	ND		6.5	0.42	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
n-Butylbenzene	ND		6.5	0.57	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
sec-Butylbenzene	ND		6.5	0.57	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Naphthalene	**2.3**	**J**	6.5	0.87	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
Methyl tert-butyl ether	ND		6.5	0.64	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1
tert-Butylbenzene	**1.1**	**J**	6.5	0.68	ug/Kg	☼	06/10/12 10:17	06/10/12 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*	*06/10/12 10:17*	*06/10/12 14:01*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*06/10/12 10:17*	*06/10/12 14:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*06/10/12 10:17*	*06/10/12 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	2.6	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Anthracene	**38**	**J**	220	5.7	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Benzo(a)anthracene	**15**	**J**	220	3.8	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Benzo(a)pyrene	ND		220	5.4	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Benzo(b)fluoranthene	**7.5**	**J**	220	4.3	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Benzo(g,h,i)perylene	ND		220	2.7	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Benzo(k)fluoranthene	**5.2**	**J**	220	2.4	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Chrysene	**9.4**	**J**	220	2.2	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Dibenz(a,h)anthracene	ND		220	2.6	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Fluoranthene	ND		220	3.2	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Fluorene	**87**	**J**	220	5.1	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Indeno(1,2,3-cd)pyrene	ND		220	6.1	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Naphthalene	ND		220	3.7	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Phenanthrene	**200**	**J**	220	4.7	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1
Pyrene	**39**	**J**	220	1.4	ug/Kg	☼	06/12/12 12:17	06/13/12 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*118*		*39 - 146*	*06/12/12 12:17*	*06/13/12 16:14*	*1*
2-Fluorophenol	*85*		*18 - 120*	*06/12/12 12:17*	*06/13/12 16:14*	*1*
2-Fluorobiphenyl	*97*		*37 - 120*	*06/12/12 12:17*	*06/13/12 16:14*	*1*
Phenol-d5	*97*		*11 - 120*	*06/12/12 12:17*	*06/13/12 16:14*	*1*
p-Terphenyl-d14	*116*		*65 - 153*	*06/12/12 12:17*	*06/13/12 16:14*	*1*
Nitrobenzene-d5	*89*		*34 - 132*	*06/12/12 12:17*	*06/13/12 16:14*	*1*

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Client Sample ID: BOTTOM 2 (6-7 FBG)
Date Collected: 06/04/12 08:53
Date Received: 06/08/12 09:00

Lab Sample ID: 480-21045-2
Matrix: Solid
Percent Solids: 77.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.0	0.29	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Ethylbenzene	ND		6.0	0.41	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Toluene	ND		6.0	0.45	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
o-Xylene	ND		6.0	0.78	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Isopropylbenzene	**1.6**	**J**	6.0	0.90	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
N-Propylbenzene	**1.4**	**J**	6.0	0.48	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
4-Isopropyltoluene	ND		6.0	0.48	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
1,2,4-Trimethylbenzene	ND		6.0	1.2	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
1,3,5-Trimethylbenzene	ND		6.0	0.39	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
n-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
sec-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Naphthalene	**0.88**	**J**	6.0	0.80	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
Methyl tert-butyl ether	ND		6.0	0.59	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1
tert-Butylbenzene	ND		6.0	0.62	ug/Kg	☼	06/10/12 10:17	06/10/12 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*	*06/10/12 10:17*	*06/10/12 14:26*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*06/10/12 10:17*	*06/10/12 14:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*06/10/12 10:17*	*06/10/12 14:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**10**	**J**	220	2.5	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Anthracene	ND		220	5.5	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Benzo(a)anthracene	**12**	**J**	220	3.7	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Benzo(a)pyrene	ND		220	5.2	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Benzo(b)fluoranthene	**8.7**	**J**	220	4.2	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Benzo(g,h,i)perylene	ND		220	2.6	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Benzo(k)fluoranthene	**5.5**	**J**	220	2.4	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Chrysene	**9.7**	**J**	220	2.2	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Dibenz(a,h)anthracene	ND		220	2.5	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Fluoranthene	**14**	**J**	220	3.1	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Fluorene	**17**	**J**	220	5.0	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Indeno(1,2,3-cd)pyrene	ND		220	6.0	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Naphthalene	ND		220	3.6	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Phenanthrene	**47**	**J**	220	4.5	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1
Pyrene	**20**	**J**	220	1.4	ug/Kg	☼	06/12/12 12:17	06/13/12 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*110*		*39 - 146*	*06/12/12 12:17*	*06/13/12 16:39*	*1*
2-Fluorophenol	*87*		*18 - 120*	*06/12/12 12:17*	*06/13/12 16:39*	*1*
2-Fluorobiphenyl	*93*		*37 - 120*	*06/12/12 12:17*	*06/13/12 16:39*	*1*
Phenol-d5	*95*		*11 - 120*	*06/12/12 12:17*	*06/13/12 16:39*	*1*
p-Terphenyl-d14	*110*		*65 - 153*	*06/12/12 12:17*	*06/13/12 16:39*	*1*
Nitrobenzene-d5	*90*		*34 - 132*	*06/12/12 12:17*	*06/13/12 16:39*	*1*

Client Sample ID: BOTTOM 3 (5-5.5 FBG)

Lab Sample ID: 480-21045-3

Date Collected: 06/05/12 09:11
Matrix: Solid

Date Received: 06/08/12 09:00
Percent Solids: 73.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.4	0.31	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Ethylbenzene	ND		6.4	0.44	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Toluene	**0.52**	**J**	6.4	0.48	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
m-Xylene & p-Xylene	**1.6**	**J**	13	1.1	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
o-Xylene	ND		6.4	0.83	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Xylenes, Total	**1.6**	**J**	13	1.1	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Isopropylbenzene	**12**		6.4	0.96	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
N-Propylbenzene	**8.1**		6.4	0.51	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
4-Isopropyltoluene	ND		6.4	0.51	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
1,2,4-Trimethylbenzene	ND		6.4	1.2	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
1,3,5-Trimethylbenzene	ND		6.4	0.41	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
n-Butylbenzene	**2.1**	**J**	6.4	0.56	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
sec-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Naphthalene	**1.7**	**J**	6.4	0.86	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
Methyl tert-butyl ether	ND		6.4	0.63	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1
tert-Butylbenzene	**1.2**	**J**	6.4	0.66	ug/Kg	☼	06/10/12 10:17	06/10/12 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 126*	*06/10/12 10:17*	*06/10/12 14:52*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*06/10/12 10:17*	*06/10/12 14:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*	*06/10/12 10:17*	*06/10/12 14:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**58**	**J**	230	2.7	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Acenaphthylene	ND		230	1.9	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Anthracene	**25**	**J**	230	5.8	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Benzo(a)anthracene	**21**	**J**	230	3.9	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Benzo(a)pyrene	**16**	**J**	230	5.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Benzo(b)fluoranthene	**23**	**J**	230	4.4	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Benzo(g,h,i)perylene	**20**	**J**	230	2.7	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Benzo(k)fluoranthene	**10**	**J**	230	2.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Chrysene	**24**	**J**	230	2.3	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Dibenz(a,h)anthracene	ND		230	2.7	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Fluoranthene	**31**	**J**	230	3.3	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Fluorene	**150**	**J**	230	5.2	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Indeno(1,2,3-cd)pyrene	**13**	**J**	230	6.3	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Naphthalene	**190**	**J**	230	3.8	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Phenanthrene	**180**	**J**	230	4.8	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1
Pyrene	**43**	**J**	230	1.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*107*		*39 - 146*	*06/12/12 12:17*	*06/13/12 17:03*	*1*
2-Fluorophenol	*78*		*18 - 120*	*06/12/12 12:17*	*06/13/12 17:03*	*1*
2-Fluorobiphenyl	*89*		*37 - 120*	*06/12/12 12:17*	*06/13/12 17:03*	*1*
Phenol-d5	*88*		*11 - 120*	*06/12/12 12:17*	*06/13/12 17:03*	*1*
p-Terphenyl-d14	*107*		*65 - 153*	*06/12/12 12:17*	*06/13/12 17:03*	*1*
Nitrobenzene-d5	*83*		*34 - 132*	*06/12/12 12:17*	*06/13/12 17:03*	*1*

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Client Sample ID: SIDEWALL 1 (4.5-5 FBG)
Date Collected: 06/05/12 11:15
Date Received: 06/08/12 09:00

Lab Sample ID: 480-21045-4
Matrix: Solid
Percent Solids: 77.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.2	0.30	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Ethylbenzene	ND		6.2	0.43	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Toluene	ND		6.2	0.47	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
o-Xylene	ND		6.2	0.81	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Isopropylbenzene	**28**		6.2	0.93	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
N-Propylbenzene	**38**		6.2	0.50	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
4-Isopropyltoluene	ND		6.2	0.50	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
1,2,4-Trimethylbenzene	ND		6.2	1.2	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
1,3,5-Trimethylbenzene	ND		6.2	0.40	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
n-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
sec-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Naphthalene	ND		6.2	0.83	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
Methyl tert-butyl ether	ND		6.2	0.61	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1
tert-Butylbenzene	**5.9**	**J**	6.2	0.64	ug/Kg	☼	06/10/12 10:17	06/10/12 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 126*	*06/10/12 10:17*	*06/10/12 15:17*	*1*
Toluene-d8 (Surr)	*106*		*71 - 125*	*06/10/12 10:17*	*06/10/12 15:17*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*06/10/12 10:17*	*06/10/12 15:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**190**	**J**	220	2.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Acenaphthylene	**140**	**J**	220	1.7	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Anthracene	**110**	**J**	220	5.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Benzo(a)anthracene	**18**	**J**	220	3.7	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Benzo(a)pyrene	**9.7**	**J**	220	5.2	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Benzo(b)fluoranthene	**14**	**J**	220	4.1	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Benzo(g,h,i)perylene	**9.5**	**J**	220	2.6	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Benzo(k)fluoranthene	**7.8**	**J**	220	2.4	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Chrysene	**17**	**J**	220	2.1	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Dibenz(a,h)anthracene	ND		220	2.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Fluoranthene	**50**	**J**	220	3.1	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Fluorene	**450**		220	4.9	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Indeno(1,2,3-cd)pyrene	ND		220	5.9	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Naphthalene	**100**	**J**	220	3.6	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Phenanthrene	**520**		220	4.5	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1
Pyrene	**65**	**J**	220	1.4	ug/Kg	☼	06/12/12 12:17	06/13/12 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*108*		*39 - 146*	*06/12/12 12:17*	*06/13/12 17:28*	*1*
2-Fluorophenol	*83*		*18 - 120*	*06/12/12 12:17*	*06/13/12 17:28*	*1*
2-Fluorobiphenyl	*93*		*37 - 120*	*06/12/12 12:17*	*06/13/12 17:28*	*1*
Phenol-d5	*93*		*11 - 120*	*06/12/12 12:17*	*06/13/12 17:28*	*1*
p-Terphenyl-d14	*102*		*65 - 153*	*06/12/12 12:17*	*06/13/12 17:28*	*1*
Nitrobenzene-d5	*91*		*34 - 132*	*06/12/12 12:17*	*06/13/12 17:28*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Client Sample ID: BOTTOM 1 (5-8.5 FBG)

Lab Sample ID: 480-21045-1

Date Collected: 05/31/12 12:00
Matrix: Solid
Date Received: 06/08/12 09:00
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			67845	06/10/12 10:17	JMB	TAL BUF
Total/NA	Analysis	8260B		1	67837	06/10/12 14:01	JMB	TAL BUF
Total/NA	Prep	3550B			67950	06/12/12 12:17	KB	TAL BUF
Total/NA	Analysis	8270C		1	68266	06/13/12 16:14	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	67904	06/11/12 09:47	ZR	TAL BUF

Client Sample ID: BOTTOM 2 (6-7 FBG)

Lab Sample ID: 480-21045-2

Date Collected: 06/04/12 08:53
Matrix: Solid
Date Received: 06/08/12 09:00
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			67845	06/10/12 10:17	JMB	TAL BUF
Total/NA	Analysis	8260B		1	67837	06/10/12 14:26	JMB	TAL BUF
Total/NA	Prep	3550B			67950	06/12/12 12:17	KB	TAL BUF
Total/NA	Analysis	8270C		1	68266	06/13/12 16:39	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	68136	06/12/12 11:56	ZLR	TAL BUF

Client Sample ID: BOTTOM 3 (5-5.5 FBG)

Lab Sample ID: 480-21045-3

Date Collected: 06/05/12 09:11
Matrix: Solid
Date Received: 06/08/12 09:00
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			67845	06/10/12 10:17	JMB	TAL BUF
Total/NA	Analysis	8260B		1	67837	06/10/12 14:52	JMB	TAL BUF
Total/NA	Prep	3550B			67950	06/12/12 12:17	KB	TAL BUF
Total/NA	Analysis	8270C		1	68266	06/13/12 17:03	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	68136	06/12/12 11:56	ZLR	TAL BUF

Client Sample ID: SIDEWALL 1 (4.5-5 FBG)

Lab Sample ID: 480-21045-4

Date Collected: 06/05/12 11:15
Matrix: Solid
Date Received: 06/08/12 09:00
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			67845	06/10/12 10:17	JMB	TAL BUF
Total/NA	Analysis	8260B		1	67837	06/10/12 15:17	JMB	TAL BUF
Total/NA	Prep	3550B			67950	06/12/12 12:17	KB	TAL BUF
Total/NA	Analysis	8270C		1	68266	06/13/12 17:28	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	68136	06/12/12 11:56	ZLR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-21045-1	BOTTOM 1 (5-8.5 FBG)	Solid	05/31/12 12:00	06/08/12 09:00
480-21045-2	BOTTOM 2 (6-7 FBG)	Solid	06/04/12 08:53	06/08/12 09:00
480-21045-3	BOTTOM 3 (5-5.5 FBG)	Solid	06/05/12 09:11	06/08/12 09:00
480-21045-4	SIDEWALL 1 (4.5-5 FBG)	Solid	06/05/12 11:15	06/08/12 09:00

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Katrina Stafford	Lab PM: Hoffman, Sally	Carrier Tracking No(s):	COC No: 480-25039-6386.1
Client Contact: Christine Rossi	Phone: 315-374-0034	E-Mail: sally.hoffman@testamericainc.com		Page: Page 1 of 1
Company: New York State D.E.C.		Analysis Requested		Job #:
Address: 615 Erie Blvd., West	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Syracuse	TAT Requested (days): standard 10 day			
State, Zip: NY, 13204				
Phone:	PO #: Call Out 120			Other:
Email: cxrossi@gw.dec.state.ny.us	WO #:			
Project Name: Utica #8809026 / PIN H1130	Project #: 48006065			
Site: 0602409-08-272	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - STARS List - VOA - 8260	8270C - NY STARS Semi-volatiles	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Bottom 1 (8-8.5 fbg)	5/31/2012	1200	G	Solid			X	X	4	
Bottom 2 (6-7 fbg)	6/4/2012	0853	G	Solid			X	X	2	
Bottom 3 (5-5.5 fbg)	6/5/2012	0911	G	Solid			X	X	2	
Sidewall 1 (4.5-5 fbg)	6/5/2012	1115	G	Solid			X	X	2	
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/6/2012 0800	GES	GES Sample Fridge	6/6/12 0800	GES
2	GES - [signature]	6/7/2012 1400	GES	[signature]	06-07-12, 14:00	SyR
3	[signature]	06-07-12, 16:00	SyR	[signature]	6/8/12 0800	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.7 #3

6/15/2012

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-21045-1

Login Number: 21045

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-21747-1
Client Project/Site: Utica #8809026 / PIN H1130

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

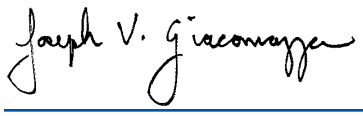
Attn: Peter S Ouderkirk

Authorized for release by:
7/3/2012 9:27:11 AM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
7/3/2012 9:27:11 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-21747-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-21747-1

Receipt
The samples were received on 6/23/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following sample was diluted due to viscosity: SIDEWALL 2 (4-5 FBG) (480-21747-2). Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client Sample ID: SIDEWALL 2 (4-5 FBG)
Date Collected: 06/14/12 13:00
Date Received: 06/23/12 09:00

Lab Sample ID: 480-21747-1
Matrix: Solid
Percent Solids: 77.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.2	0.30	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Ethylbenzene	ND		6.2	0.43	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Toluene	ND		6.2	0.47	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
o-Xylene	ND		6.2	0.81	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Isopropylbenzene	**1.8**	**J**	6.2	0.94	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
N-Propylbenzene	**2.7**	**J**	6.2	0.50	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
4-Isopropyltoluene	ND		6.2	0.50	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
1,2,4-Trimethylbenzene	ND		6.2	1.2	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
1,3,5-Trimethylbenzene	ND		6.2	0.40	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
n-Butylbenzene	**6.6**		6.2	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
sec-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Naphthalene	**1.7**	**J**	6.2	0.83	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
Methyl tert-butyl ether	ND		6.2	0.61	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1
tert-Butylbenzene	ND		6.2	0.65	ug/Kg	☼	06/25/12 14:20	06/25/12 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*	*06/25/12 14:20*	*06/25/12 19:08*	*1*
Toluene-d8 (Surr)	*77*		*71 - 125*	*06/25/12 14:20*	*06/25/12 19:08*	*1*
4-Bromofluorobenzene (Surr)	*88*		*72 - 126*	*06/25/12 14:20*	*06/25/12 19:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**300**		220	2.5	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Acenaphthylene	**56**	**J**	220	1.8	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Anthracene	**870**		220	5.5	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Benzo(a)anthracene	**56**	**J**	220	3.7	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Benzo(a)pyrene	**7.1**	**J**	220	5.2	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Benzo(b)fluoranthene	**11**	**J**	220	4.2	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Benzo(g,h,i)perylene	ND		220	2.6	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Benzo(k)fluoranthene	**4.8**	**J**	220	2.4	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Chrysene	**62**	**J**	220	2.2	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Dibenz(a,h)anthracene	ND		220	2.5	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Fluoranthene	**260**		220	3.1	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Fluorene	**830**		220	5.0	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Indeno(1,2,3-cd)pyrene	ND		220	6.0	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Naphthalene	**22**	**J**	220	3.6	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Phenanthrene	**2700**		220	4.5	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1
Pyrene	**980**		220	1.4	ug/Kg	☼	06/26/12 14:56	07/02/12 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*39 - 146*	*06/26/12 14:56*	*07/02/12 12:17*	*1*
2-Fluorophenol	*74*		*18 - 120*	*06/26/12 14:56*	*07/02/12 12:17*	*1*
2-Fluorobiphenyl	*88*		*37 - 120*	*06/26/12 14:56*	*07/02/12 12:17*	*1*
Phenol-d5	*86*		*11 - 120*	*06/26/12 14:56*	*07/02/12 12:17*	*1*
p-Terphenyl-d14	*91*		*65 - 153*	*06/26/12 14:56*	*07/02/12 12:17*	*1*
Nitrobenzene-d5	*93*		*34 - 132*	*06/26/12 14:56*	*07/02/12 12:17*	*1*

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Client Sample ID: SIDEWALL 3 (4-5 FBG)
Date Collected: 06/15/12 09:15
Date Received: 06/23/12 09:00

Lab Sample ID: 480-21747-2
Matrix: Solid
Percent Solids: 77.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.8	0.33	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Ethylbenzene	ND		6.8	0.47	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Toluene	ND		6.8	0.51	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
m-Xylene & p-Xylene	ND		14	1.1	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
o-Xylene	ND		6.8	0.88	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Xylenes, Total	ND		14	1.1	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Isopropylbenzene	ND		6.8	1.0	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
N-Propylbenzene	ND		6.8	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
4-Isopropyltoluene	ND		6.8	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
1,2,4-Trimethylbenzene	ND		6.8	1.3	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
1,3,5-Trimethylbenzene	ND		6.8	0.44	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
n-Butylbenzene	ND		6.8	0.59	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
sec-Butylbenzene	ND		6.8	0.59	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Naphthalene	ND		6.8	0.91	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
Methyl tert-butyl ether	ND		6.8	0.66	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1
tert-Butylbenzene	ND		6.8	0.70	ug/Kg	☼	06/25/12 14:20	06/25/12 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*64 - 126*	*06/25/12 14:20*	*06/25/12 19:34*	*1*
Toluene-d8 (Surr)	*86*		*71 - 125*	*06/25/12 14:20*	*06/25/12 19:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*06/25/12 14:20*	*06/25/12 19:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	13	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Acenaphthylene	ND		1100	8.8	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Anthracene	**53**	**J**	1100	27	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Benzo(a)anthracene	**160**	**J**	1100	18	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Benzo(a)pyrene	**170**	**J**	1100	26	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Benzo(b)fluoranthene	**200**	**J**	1100	21	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Benzo(g,h,i)perylene	ND		1100	13	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Benzo(k)fluoranthene	**90**	**J**	1100	12	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Chrysene	**150**	**J**	1100	11	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Dibenz(a,h)anthracene	ND		1100	13	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Fluoranthene	**360**	**J**	1100	16	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Fluorene	ND		1100	25	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Indeno(1,2,3-cd)pyrene	ND		1100	30	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Naphthalene	ND		1100	18	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Phenanthrene	**270**	**J**	1100	22	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5
Pyrene	**260**	**J**	1100	6.9	ug/Kg	☼	06/26/12 14:56	07/02/12 12:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*39 - 146*	*06/26/12 14:56*	*07/02/12 12:42*	*5*
2-Fluorophenol	*68*		*18 - 120*	*06/26/12 14:56*	*07/02/12 12:42*	*5*
2-Fluorobiphenyl	*85*		*37 - 120*	*06/26/12 14:56*	*07/02/12 12:42*	*5*
Phenol-d5	*81*		*11 - 120*	*06/26/12 14:56*	*07/02/12 12:42*	*5*
p-Terphenyl-d14	*105*		*65 - 153*	*06/26/12 14:56*	*07/02/12 12:42*	*5*
Nitrobenzene-d5	*80*		*34 - 132*	*06/26/12 14:56*	*07/02/12 12:42*	*5*

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Client Sample ID: BOTTOM 4 (7 FBG)
Date Collected: 06/15/12 11:00
Date Received: 06/23/12 09:00

Lab Sample ID: 480-21747-3
Matrix: Solid
Percent Solids: 69.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.8	0.33	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Ethylbenzene	ND		6.8	0.47	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Toluene	ND		6.8	0.51	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
m-Xylene & p-Xylene	ND		14	1.1	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
o-Xylene	ND		6.8	0.88	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Xylenes, Total	ND		14	1.1	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Isopropylbenzene	ND		6.8	1.0	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
N-Propylbenzene	ND		6.8	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
4-Isopropyltoluene	ND		6.8	0.54	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
1,2,4-Trimethylbenzene	ND		6.8	1.3	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
1,3,5-Trimethylbenzene	ND		6.8	0.44	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
n-Butylbenzene	ND		6.8	0.59	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
sec-Butylbenzene	ND		6.8	0.59	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Naphthalene	ND		6.8	0.91	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
Methyl tert-butyl ether	ND		6.8	0.66	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1
tert-Butylbenzene	ND		6.8	0.70	ug/Kg	☼	06/25/12 14:20	06/25/12 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*64 - 126*	*06/25/12 14:20*	*06/25/12 19:59*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*06/25/12 14:20*	*06/25/12 19:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*06/25/12 14:20*	*06/25/12 19:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		240	2.8	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Acenaphthylene	ND		240	1.9	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Anthracene	ND		240	6.1	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Benzo(a)anthracene	ND		240	4.1	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Benzo(a)pyrene	ND		240	5.7	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Benzo(b)fluoranthene	ND		240	4.6	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Benzo(g,h,i)perylene	ND		240	2.8	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Benzo(k)fluoranthene	ND		240	2.6	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Chrysene	ND		240	2.4	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Dibenz(a,h)anthracene	ND		240	2.8	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Fluoranthene	ND		240	3.4	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Fluorene	ND		240	5.5	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Indeno(1,2,3-cd)pyrene	ND		240	6.6	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Naphthalene	ND		240	3.9	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Phenanthrene	ND		240	5.0	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1
Pyrene	ND		240	1.5	ug/Kg	☼	06/26/12 14:56	07/02/12 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*109*		*39 - 146*	*06/26/12 14:56*	*07/02/12 13:06*	*1*
2-Fluorophenol	*77*		*18 - 120*	*06/26/12 14:56*	*07/02/12 13:06*	*1*
2-Fluorobiphenyl	*88*		*37 - 120*	*06/26/12 14:56*	*07/02/12 13:06*	*1*
Phenol-d5	*91*		*11 - 120*	*06/26/12 14:56*	*07/02/12 13:06*	*1*
p-Terphenyl-d14	*102*		*65 - 153*	*06/26/12 14:56*	*07/02/12 13:06*	*1*
Nitrobenzene-d5	*96*		*34 - 132*	*06/26/12 14:56*	*07/02/12 13:06*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Client Sample ID: SIDEWALL 2 (4-5 FBG)

Lab Sample ID: 480-21747-1

Date Collected: 06/14/12 13:00
Matrix: Solid
Date Received: 06/23/12 09:00
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			69909	06/25/12 14:20	JMB	TAL BUF
Total/NA	Analysis	8260B		1	69801	06/25/12 19:08	CDC	TAL BUF
Total/NA	Prep	3550B			70085	06/26/12 14:56	KB	TAL BUF
Total/NA	Analysis	8270C		1	70788	07/02/12 12:17	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	69882	06/25/12 12:53	ZR	TAL BUF

Client Sample ID: SIDEWALL 3 (4-5 FBG)

Lab Sample ID: 480-21747-2

Date Collected: 06/15/12 09:15
Matrix: Solid
Date Received: 06/23/12 09:00
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			69909	06/25/12 14:20	JMB	TAL BUF
Total/NA	Analysis	8260B		1	69801	06/25/12 19:34	CDC	TAL BUF
Total/NA	Prep	3550B			70085	06/26/12 14:56	KB	TAL BUF
Total/NA	Analysis	8270C		5	70788	07/02/12 12:42	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	69882	06/25/12 12:53	ZR	TAL BUF

Client Sample ID: BOTTOM 4 (7 FBG)

Lab Sample ID: 480-21747-3

Date Collected: 06/15/12 11:00
Matrix: Solid
Date Received: 06/23/12 09:00
Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			69909	06/25/12 14:20	JMB	TAL BUF
Total/NA	Analysis	8260B		1	69801	06/25/12 19:59	CDC	TAL BUF
Total/NA	Prep	3550B			70085	06/26/12 14:56	KB	TAL BUF
Total/NA	Analysis	8270C		1	70788	07/02/12 13:06	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	69882	06/25/12 12:53	ZR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-21747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-21747-1	SIDEWALL 2 (4-5 FBG)	Solid	06/14/12 13:00	06/23/12 09:00
480-21747-2	SIDEWALL 3 (4-5 FBG)	Solid	06/15/12 09:15	06/23/12 09:00
480-21747-3	BOTTOM 4 (7 FBG)	Solid	06/15/12 11:00	06/23/12 09:00

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact:	Date:	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	Analysis Turnaround Time			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W) _____			SDG No.
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			
(315) 452-3237 FAX	☐ 2 weeks			
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Pin #: H1130	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres	Matrix	# of Cont.	Filtered Sample	8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
Sidewall 2 (4-5 fbg)	6/14/12	1300	1	Solid	3	N	x	x	
Sidewall 3 (4-5 fbg)	6/15/12	0915	1	Solid	3	N	x	x	
Bottom 4 (7 fbg)	6/15/12	1100	1	Solid	3	N	x	x	

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

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Katrina Stafford	GES	6/15/12 1630	Sample Fridge	GES	6/15/12 1630
[signature]	GES	6/22/12 1025	[signature]	TAL	6-22-12 1025
[signature]	[illegible]	6-22-12 [illegible]	[signature]	TAL BUFFALO	06/23/12 0900

3.1°C #3

Form No. CA-C-WI-002, dated 04/07/2011

7/3/2012

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-21747-1

Login Number: 21747

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-22238-1
Client Project/Site: Utica #8809026 / PIN H1130

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

Authorized for release by:
7/11/2012 8:17:47 PM

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Sally Hoffman
Project Manager II
7/11/2012 8:17:47 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-22238-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-22238-1

Receipt
The samples were received on 7/6/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Client Sample ID: K-3 (10-12)
Date Collected: 07/03/12 00:00
Date Received: 07/06/12 09:00

Lab Sample ID: 480-22238-1
Matrix: Solid
Percent Solids: 74.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.7	0.33	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Ethylbenzene	ND		6.7	0.47	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Toluene	ND		6.7	0.51	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
o-Xylene	ND		6.7	0.88	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Isopropylbenzene	ND		6.7	1.0	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
N-Propylbenzene	ND		6.7	0.54	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
4-Isopropyltoluene	ND		6.7	0.54	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
1,2,4-Trimethylbenzene	ND		6.7	1.3	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
1,3,5-Trimethylbenzene	ND		6.7	0.43	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
n-Butylbenzene	ND		6.7	0.59	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
sec-Butylbenzene	ND		6.7	0.59	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Naphthalene	ND		6.7	0.90	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
Methyl tert-butyl ether	ND		6.7	0.66	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1
tert-Butylbenzene	ND		6.7	0.70	ug/Kg	☼	07/06/12 17:59	07/06/12 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*07/06/12 17:59*	*07/06/12 21:55*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*07/06/12 17:59*	*07/06/12 21:55*	*1*
4-Bromofluorobenzene (Surr)	*78*		*72 - 126*	*07/06/12 17:59*	*07/06/12 21:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		230	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Acenaphthylene	ND		230	1.8	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Anthracene	**17**	**J**	230	5.8	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Benzo(a)anthracene	**87**	**J**	230	3.9	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Benzo(a)pyrene	**95**	**J**	230	5.4	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Benzo(b)fluoranthene	**79**	**J**	230	4.4	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Benzo(g,h,i)perylene	**32**	**J**	230	2.7	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Benzo(k)fluoranthene	**50**	**J**	230	2.5	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Chrysene	**77**	**J**	230	2.2	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Dibenz(a,h)anthracene	ND		230	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Fluoranthene	**200**	**J**	230	3.3	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Fluorene	ND		230	5.2	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Indeno(1,2,3-cd)pyrene	**27**	**J**	230	6.2	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Naphthalene	ND		230	3.7	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Phenanthrene	**79**	**J**	230	4.7	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1
Pyrene	**240**		230	1.5	ug/Kg	☼	07/09/12 15:57	07/10/12 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*39 - 146*	*07/09/12 15:57*	*07/10/12 20:43*	*1*
2-Fluorophenol	*52*		*18 - 120*	*07/09/12 15:57*	*07/10/12 20:43*	*1*
2-Fluorobiphenyl	*67*		*37 - 120*	*07/09/12 15:57*	*07/10/12 20:43*	*1*
Phenol-d5	*63*		*11 - 120*	*07/09/12 15:57*	*07/10/12 20:43*	*1*
p-Terphenyl-d14	*90*		*65 - 153*	*07/09/12 15:57*	*07/10/12 20:43*	*1*
Nitrobenzene-d5	*61*		*34 - 132*	*07/09/12 15:57*	*07/10/12 20:43*	*1*

Client Sample ID: K-5 (6-8)
Date Collected: 07/03/12 00:00
Date Received: 07/06/12 09:00

Lab Sample ID: 480-22238-2
Matrix: Solid
Percent Solids: 74.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.7	0.33	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Ethylbenzene	ND		6.7	0.46	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Toluene	ND		6.7	0.50	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
m-Xylene & p-Xylene	**4.4**	**J**	13	1.1	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
o-Xylene	ND		6.7	0.87	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Xylenes, Total	**4.4**	**J**	13	1.1	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Isopropylbenzene	ND		6.7	1.0	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
N-Propylbenzene	ND		6.7	0.53	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
4-Isopropyltoluene	ND		6.7	0.53	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
1,2,4-Trimethylbenzene	**2.0**	**J**	6.7	1.3	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
1,3,5-Trimethylbenzene	ND		6.7	0.43	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
n-Butylbenzene	ND		6.7	0.58	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
sec-Butylbenzene	ND		6.7	0.58	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Naphthalene	ND		6.7	0.89	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
Methyl tert-butyl ether	ND		6.7	0.65	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1
tert-Butylbenzene	ND		6.7	0.69	ug/Kg	☼	07/06/12 17:59	07/06/12 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*07/06/12 17:59*	*07/06/12 22:20*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*07/06/12 17:59*	*07/06/12 22:20*	*1*
4-Bromofluorobenzene (Surr)	*78*		*72 - 126*	*07/06/12 17:59*	*07/06/12 22:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**17**	**J**	230	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Acenaphthylene	**5.8**	**J**	230	1.8	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Anthracene	**23**	**J**	230	5.8	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Benzo(a)anthracene	**65**	**J**	230	3.9	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Benzo(a)pyrene	**49**	**J**	230	5.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Benzo(b)fluoranthene	**65**	**J**	230	4.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Benzo(g,h,i)perylene	**14**	**J**	230	2.7	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Benzo(k)fluoranthene	**43**	**J**	230	2.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Chrysene	**73**	**J**	230	2.3	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Dibenz(a,h)anthracene	ND		230	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Fluoranthene	**170**	**J**	230	3.3	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Fluorene	**31**	**J**	230	5.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Indeno(1,2,3-cd)pyrene	**16**	**J**	230	6.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Naphthalene	ND		230	3.7	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Phenanthrene	**26**	**J**	230	4.7	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1
Pyrene	**160**	**J**	230	1.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*39 - 146*	*07/09/12 15:57*	*07/10/12 21:06*	*1*
2-Fluorophenol	*61*		*18 - 120*	*07/09/12 15:57*	*07/10/12 21:06*	*1*
2-Fluorobiphenyl	*75*		*37 - 120*	*07/09/12 15:57*	*07/10/12 21:06*	*1*
Phenol-d5	*65*		*11 - 120*	*07/09/12 15:57*	*07/10/12 21:06*	*1*
p-Terphenyl-d14	*102*		*65 - 153*	*07/09/12 15:57*	*07/10/12 21:06*	*1*
Nitrobenzene-d5	*72*		*34 - 132*	*07/09/12 15:57*	*07/10/12 21:06*	*1*

Client Sample ID: K-8 (4)

Date Collected: 07/03/12 00:00
Date Received: 07/06/12 09:00

Lab Sample ID: 480-22238-3

Matrix: Solid
Percent Solids: 77.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.2	0.30	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Ethylbenzene	ND		6.2	0.43	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Toluene	ND		6.2	0.47	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
m-Xylene & p-Xylene	**1.8**	**J**	12	1.0	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
o-Xylene	ND		6.2	0.81	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Xylenes, Total	**1.8**	**J**	12	1.0	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Isopropylbenzene	ND		6.2	0.93	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
N-Propylbenzene	ND		6.2	0.49	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
4-Isopropyltoluene	ND		6.2	0.50	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
1,2,4-Trimethylbenzene	ND		6.2	1.2	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
1,3,5-Trimethylbenzene	ND		6.2	0.40	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
n-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
sec-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Naphthalene	ND		6.2	0.83	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
Methyl tert-butyl ether	ND		6.2	0.61	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1
tert-Butylbenzene	ND		6.2	0.64	ug/Kg	☼	07/06/12 17:59	07/06/12 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*07/06/12 17:59*	*07/06/12 22:46*	*1*
Toluene-d8 (Surr)	*95*		*71 - 125*	*07/06/12 17:59*	*07/06/12 22:46*	*1*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*	*07/06/12 17:59*	*07/06/12 22:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**34**	**J**	220	2.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Acenaphthylene	**5.1**	**J**	220	1.8	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Anthracene	ND		220	5.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Benzo(a)anthracene	**18**	**J**	220	3.7	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Benzo(a)pyrene	**37**	**J**	220	5.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Benzo(b)fluoranthene	ND		220	4.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Benzo(g,h,i)perylene	ND		220	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Benzo(k)fluoranthene	ND		220	2.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Chrysene	**13**	**J**	220	2.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Dibenz(a,h)anthracene	ND		220	2.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Fluoranthene	**39**	**J**	220	3.1	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Fluorene	**47**	**J**	220	5.0	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Indeno(1,2,3-cd)pyrene	ND		220	6.0	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Naphthalene	ND		220	3.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Phenanthrene	**30**	**J**	220	4.5	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1
Pyrene	**34**	**J**	220	1.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*39 - 146*	*07/09/12 15:57*	*07/10/12 21:30*	*1*
2-Fluorophenol	*49*		*18 - 120*	*07/09/12 15:57*	*07/10/12 21:30*	*1*
2-Fluorobiphenyl	*67*		*37 - 120*	*07/09/12 15:57*	*07/10/12 21:30*	*1*
Phenol-d5	*60*		*11 - 120*	*07/09/12 15:57*	*07/10/12 21:30*	*1*
p-Terphenyl-d14	*87*		*65 - 153*	*07/09/12 15:57*	*07/10/12 21:30*	*1*
Nitrobenzene-d5	*62*		*34 - 132*	*07/09/12 15:57*	*07/10/12 21:30*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Client Sample ID: K-3 (10-12)

Lab Sample ID: 480-22238-1
Date Collected: 07/03/12 00:00
Matrix: Solid
Date Received: 07/06/12 09:00
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71417	07/06/12 17:59	CDC	TAL BUF
Total/NA	Analysis	8260B		1	71411	07/06/12 21:55	JMB	TAL BUF
Total/NA	Prep	3550B			71623	07/09/12 15:57	DE	TAL BUF
Total/NA	Analysis	8270C		1	71811	07/10/12 20:43	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	71598	07/09/12 13:54	ZR	TAL BUF

Client Sample ID: K-5 (6-8)

Lab Sample ID: 480-22238-2
Date Collected: 07/03/12 00:00
Matrix: Solid
Date Received: 07/06/12 09:00
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71417	07/06/12 17:59	CDC	TAL BUF
Total/NA	Analysis	8260B		1	71411	07/06/12 22:20	JMB	TAL BUF
Total/NA	Prep	3550B			71623	07/09/12 15:57	DE	TAL BUF
Total/NA	Analysis	8270C		1	71811	07/10/12 21:06	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	71598	07/09/12 13:54	ZR	TAL BUF

Client Sample ID: K-8 (4)

Lab Sample ID: 480-22238-3
Date Collected: 07/03/12 00:00
Matrix: Solid
Date Received: 07/06/12 09:00
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71417	07/06/12 17:59	CDC	TAL BUF
Total/NA	Analysis	8260B		1	71411	07/06/12 22:46	JMB	TAL BUF
Total/NA	Prep	3550B			71623	07/09/12 15:57	DE	TAL BUF
Total/NA	Analysis	8270C		1	71811	07/10/12 21:30	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	71598	07/09/12 13:54	ZR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Utica #8809026 / PIN H1130

TestAmerica Job ID: 480-22238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-22238-1	K-3 (10-12)	Solid	07/03/12 00:00	07/06/12 09:00
480-22238-2	K-5 (6-8)	Solid	07/03/12 00:00	07/06/12 09:00
480-22238-3	K-8 (4)	Solid	07/03/12 00:00	07/06/12 09:00

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact: Katrina Stafford	Date: 7-3-12	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	Analysis Turnaround Time			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W) _____			
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			SDG No.
(315) 452-3237 FAX	☐ 2 weeks			
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Pin #: H1130	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres.	Matrix	# of Cont.	Filtered Sample	8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
K-3 (10-12ftbs)	7-3-12	AM		Solid	2	N	x	x	
K-5 (6-8ftbs)	7-3-12	AM		S	2		X	X	
K-8 (4ftbs)	7-3-12	AM		S	2		X	X	

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

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee mey be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Chris Sansh	GES	7-3-12 15:45	SAMPLE FRIDGE	GES	7-3-12 15:45
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Arudick	—	7/5/12		TAS	07-05-12, 17:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Sgn	07-05-12			7/6/12 09W

Form No. CA-C-WI-002, dated 04/07/2011

arudick@gesonline.com.

4/12 #2

7/11/2012

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-22238-1

Login Number: 22238

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-22264-1
Client Project/Site: Matt Petroleum Utica #633080

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

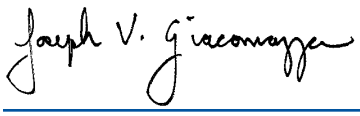
Joseph V. Giacomazza

Authorized for release by:
7/19/2012 2:30:43 PM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
7/19/2012 2:30:43 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22264-1

Qualifiers

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-22264-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-22264-1

Receipt
The sample was received on 7/7/2012 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client Sample ID: L-2 (8-10FTBG)
Date Collected: 07/05/12 00:00
Date Received: 07/07/12 09:30

Lab Sample ID: 480-22264-1
Matrix: Solid
Percent Solids: 77.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.4	0.31	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Ethylbenzene	ND		6.4	0.44	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Toluene	ND		6.4	0.48	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
o-Xylene	ND		6.4	0.83	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Isopropylbenzene	ND		6.4	0.96	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
N-Propylbenzene	ND		6.4	0.51	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
4-Isopropyltoluene	ND		6.4	0.51	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
1,2,4-Trimethylbenzene	ND		6.4	1.2	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
1,3,5-Trimethylbenzene	ND		6.4	0.41	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
n-Butylbenzene	ND		6.4	0.55	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
sec-Butylbenzene	ND		6.4	0.55	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Naphthalene	ND		6.4	0.85	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
Methyl tert-butyl ether	ND		6.4	0.63	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1
tert-Butylbenzene	ND		6.4	0.66	ug/Kg	☼	07/08/12 09:38	07/08/12 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*	*07/08/12 09:38*	*07/08/12 13:58*	*1*
Toluene-d8 (Surr)	*90*		*71 - 125*	*07/08/12 09:38*	*07/08/12 13:58*	*1*
4-Bromofluorobenzene (Surr)	*77*		*72 - 126*	*07/08/12 09:38*	*07/08/12 13:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Anthracene	ND		220	5.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Benzo(a)anthracene	**36**	**J**	220	3.8	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Benzo(a)pyrene	**40**	**J**	220	5.3	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Benzo(b)fluoranthene	**44**	**J**	220	4.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Benzo(g,h,i)perylene	ND		220	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Benzo(k)fluoranthene	**24**	**J**	220	2.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Chrysene	**34**	**J**	220	2.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Dibenz(a,h)anthracene	ND		220	2.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Fluoranthene	**59**	**J**	220	3.2	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Fluorene	ND		220	5.0	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Indeno(1,2,3-cd)pyrene	ND		220	6.0	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Naphthalene	ND		220	3.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Phenanthrene	**27**	**J**	220	4.6	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1
Pyrene	**67**	**J**	220	1.4	ug/Kg	☼	07/09/12 15:57	07/10/12 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*39 - 146*	*07/09/12 15:57*	*07/10/12 21:53*	*1*
2-Fluorophenol	*55*		*18 - 120*	*07/09/12 15:57*	*07/10/12 21:53*	*1*
2-Fluorobiphenyl	*72*		*37 - 120*	*07/09/12 15:57*	*07/10/12 21:53*	*1*
Phenol-d5	*66*		*11 - 120*	*07/09/12 15:57*	*07/10/12 21:53*	*1*
p-Terphenyl-d14	*89*		*65 - 153*	*07/09/12 15:57*	*07/10/12 21:53*	*1*
Nitrobenzene-d5	*67*		*34 - 132*	*07/09/12 15:57*	*07/10/12 21:53*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22264-1

Client Sample ID: L-2 (8-10FTBG)
Date Collected: 07/05/12 00:00
Date Received: 07/07/12 09:30

Lab Sample ID: 480-22264-1
Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71489	07/08/12 09:38	JMB	TAL BUF
Total/NA	Analysis	8260B		1	71478	07/08/12 13:58	CDC	TAL BUF
Total/NA	Prep	3550B			71623	07/09/12 15:57	DE	TAL BUF
Total/NA	Analysis	8270C		1	71811	07/10/12 21:53	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	71783	07/10/12 12:24	ZLR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22264-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22264-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22264-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-22264-1	L-2 (8-10FTBG)	Solid	07/05/12 00:00	07/07/12 09:30

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact: K. Stafford	Date: 7-6-2012	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	Analysis Turnaround Time			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W) _____			SDG No.
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			
(315) 452-3237 FAX	☐ 2 weeks			
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Pin #: H1130	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres	Matrix	# of Cont.	Filtered Sample	8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
L-2 (8-10ftbg)	7/5/12	A.M.	~	Solid	2	N	x	x	

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

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GES	7-5-12 16:15	GES FRIDGE	GES	7-5-12 16:15
Alison Rudich	GES	7/6/12 1100	[signature]	Pace Syr	7-6-12 11:14
[signature] DALSyr	7-6-12 18:30		[signature]	[illegible]	7/7/12 0930

3.9 #2

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-22264-1

Login Number: 22264
List Number: 1
Creator: Janish, Carl

List Source: TestAmerica Buffalo

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-22815-1
Client Project/Site: Matt Petroleum Utica #633080

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

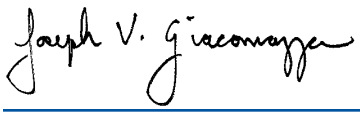
Joseph V. Giacomazza

Authorized for release by:
7/30/2012 11:22:00 AM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
7/30/2012 11:22:00 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Job ID: 480-22815-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-22815-1

Receipt
The samples were received on 7/19/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following sample was diluted due to the nature of the sample matrix: P4 (480-22815-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Client Sample ID: 06
Date Collected: 07/16/12 14:30
Date Received: 07/19/12 09:00

Lab Sample ID: 480-22815-1
Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6	0.28	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Toluene	ND		5.6	0.42	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
m-Xylene & p-Xylene	ND		11	0.94	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
o-Xylene	ND		5.6	0.73	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Xylenes, Total	ND		11	0.94	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Isopropylbenzene	ND		5.6	0.85	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Naphthalene	**2.4**	**J**	5.6	0.75	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1
tert-Butylbenzene	ND		5.6	0.58	ug/Kg	☼	07/19/12 15:48	07/20/12 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*	*07/19/12 15:48*	*07/20/12 01:46*	*1*
Toluene-d8 (Surr)	*95*		*71 - 125*	*07/19/12 15:48*	*07/20/12 01:46*	*1*
4-Bromofluorobenzene (Surr)	*108*		*72 - 126*	*07/19/12 15:48*	*07/20/12 01:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**8.1**	**J**	190	2.3	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Acenaphthylene	**8.6**	**J**	190	1.6	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Anthracene	ND		190	5.0	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Benzo(a)anthracene	ND		190	3.3	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Benzo(a)pyrene	ND		190	4.7	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Benzo(b)fluoranthene	ND		190	3.8	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Benzo(g,h,i)perylene	ND		190	2.3	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Benzo(k)fluoranthene	ND		190	2.1	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Chrysene	ND		190	1.9	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Dibenz(a,h)anthracene	ND		190	2.3	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Fluoranthene	ND		190	2.8	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Fluorene	**23**	**J**	190	4.5	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Indeno(1,2,3-cd)pyrene	ND		190	5.4	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Naphthalene	ND		190	3.2	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Phenanthrene	**26**	**J**	190	4.1	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1
Pyrene	ND		190	1.3	ug/Kg	☼	07/25/12 13:24	07/27/12 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*109*		*39 - 146*	*07/25/12 13:24*	*07/27/12 13:41*	*1*
2-Fluorophenol	*57*		*18 - 120*	*07/25/12 13:24*	*07/27/12 13:41*	*1*
2-Fluorobiphenyl	*79*		*37 - 120*	*07/25/12 13:24*	*07/27/12 13:41*	*1*
Phenol-d5	*63*		*11 - 120*	*07/25/12 13:24*	*07/27/12 13:41*	*1*
p-Terphenyl-d14	*113*		*65 - 153*	*07/25/12 13:24*	*07/27/12 13:41*	*1*
Nitrobenzene-d5	*65*		*34 - 132*	*07/25/12 13:24*	*07/27/12 13:41*	*1*

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Client Sample ID: 01
Date Collected: 07/16/12 09:40
Date Received: 07/19/12 09:00

Lab Sample ID: 480-22815-2
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9	0.24	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Ethylbenzene	ND		4.9	0.33	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Toluene	ND		4.9	0.37	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
m-Xylene & p-Xylene	ND		9.7	0.82	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
o-Xylene	ND		4.9	0.63	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Xylenes, Total	ND		9.7	0.82	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Isopropylbenzene	ND		4.9	0.73	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
N-Propylbenzene	ND		4.9	0.39	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
4-Isopropyltoluene	ND		4.9	0.39	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
1,2,4-Trimethylbenzene	ND		4.9	0.93	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
1,3,5-Trimethylbenzene	ND		4.9	0.31	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
n-Butylbenzene	ND		4.9	0.42	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
sec-Butylbenzene	ND		4.9	0.42	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Naphthalene	**1.4**	**J**	4.9	0.65	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1
tert-Butylbenzene	ND		4.9	0.50	ug/Kg	☼	07/19/12 15:48	07/20/12 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*	*07/19/12 15:48*	*07/20/12 02:12*	*1*
Toluene-d8 (Surr)	*95*		*71 - 125*	*07/19/12 15:48*	*07/20/12 02:12*	*1*
4-Bromofluorobenzene (Surr)	*112*		*72 - 126*	*07/19/12 15:48*	*07/20/12 02:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	2.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Anthracene	ND		190	4.7	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Benzo(a)anthracene	ND		190	3.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Benzo(a)pyrene	ND		190	4.4	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Benzo(b)fluoranthene	ND		190	3.6	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Benzo(g,h,i)perylene	ND		190	2.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Benzo(k)fluoranthene	ND		190	2.0	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Chrysene	ND		190	1.8	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Fluoranthene	ND		190	2.7	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Fluorene	ND		190	4.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Indeno(1,2,3-cd)pyrene	ND		190	5.1	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Naphthalene	ND		190	3.1	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Phenanthrene	ND		190	3.9	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1
Pyrene	ND		190	1.2	ug/Kg	☼	07/25/12 13:24	07/27/12 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*104*		*39 - 146*	*07/25/12 13:24*	*07/27/12 14:05*	*1*
2-Fluorophenol	*64*		*18 - 120*	*07/25/12 13:24*	*07/27/12 14:05*	*1*
2-Fluorobiphenyl	*77*		*37 - 120*	*07/25/12 13:24*	*07/27/12 14:05*	*1*
Phenol-d5	*69*		*11 - 120*	*07/25/12 13:24*	*07/27/12 14:05*	*1*
p-Terphenyl-d14	*111*		*65 - 153*	*07/25/12 13:24*	*07/27/12 14:05*	*1*
Nitrobenzene-d5	*69*		*34 - 132*	*07/25/12 13:24*	*07/27/12 14:05*	*1*

Client Sample ID: P4

Date Collected: 07/16/12 13:20
Date Received: 07/19/12 09:00

Lab Sample ID: 480-22815-3

Matrix: Solid
Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.8	0.28	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Ethylbenzene	ND		5.8	0.40	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Toluene	ND		5.8	0.44	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
m-Xylene & p-Xylene	ND		12	0.97	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
o-Xylene	ND		5.8	0.76	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Xylenes, Total	ND		12	0.97	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Isopropylbenzene	ND		5.8	0.87	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
N-Propylbenzene	ND		5.8	0.46	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
4-Isopropyltoluene	ND		5.8	0.46	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
1,2,4-Trimethylbenzene	ND		5.8	1.1	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
1,3,5-Trimethylbenzene	ND		5.8	0.37	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
n-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
sec-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Naphthalene	**1.4**	**J**	5.8	0.77	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
Methyl tert-butyl ether	ND		5.8	0.57	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1
tert-Butylbenzene	ND		5.8	0.60	ug/Kg	☼	07/19/12 15:48	07/20/12 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*64 - 126*	*07/19/12 15:48*	*07/20/12 02:37*	*1*
Toluene-d8 (Surr)	*89*		*71 - 125*	*07/19/12 15:48*	*07/20/12 02:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*07/19/12 15:48*	*07/20/12 02:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2000	23	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Acenaphthylene	ND		2000	16	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Anthracene	ND		2000	50	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Benzo(a)anthracene	**440**	**J**	2000	34	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Benzo(a)pyrene	ND		2000	47	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Benzo(b)fluoranthene	**540**	**J**	2000	38	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Benzo(g,h,i)perylene	ND		2000	23	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Benzo(k)fluoranthene	ND		2000	22	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Chrysene	**510**	**J**	2000	20	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Dibenz(a,h)anthracene	ND		2000	23	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Fluoranthene	**1000**	**J**	2000	28	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Fluorene	ND		2000	45	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Indeno(1,2,3-cd)pyrene	**250**	**J**	2000	54	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Naphthalene	ND		2000	33	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Phenanthrene	**740**	**J**	2000	41	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10
Pyrene	**870**	**J**	2000	13	ug/Kg	☼	07/25/12 13:24	07/27/12 14:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*39 - 146*	*07/25/12 13:24*	*07/27/12 14:29*	*10*
2-Fluorophenol	*76*		*18 - 120*	*07/25/12 13:24*	*07/27/12 14:29*	*10*
2-Fluorobiphenyl	*103*		*37 - 120*	*07/25/12 13:24*	*07/27/12 14:29*	*10*
Phenol-d5	*79*		*11 - 120*	*07/25/12 13:24*	*07/27/12 14:29*	*10*
p-Terphenyl-d14	*119*		*65 - 153*	*07/25/12 13:24*	*07/27/12 14:29*	*10*
Nitrobenzene-d5	*76*		*34 - 132*	*07/25/12 13:24*	*07/27/12 14:29*	*10*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Client Sample ID: 06

Lab Sample ID: 480-22815-1

Date Collected: 07/16/12 14:30
Matrix: Solid
Date Received: 07/19/12 09:00
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73122	07/19/12 15:48	JMB	TAL BUF
Total/NA	Analysis	8260B		1	73142	07/20/12 01:46	JMB	TAL BUF
Total/NA	Prep	3550B			73834	07/25/12 13:24	DE	TAL BUF
Total/NA	Analysis	8270C		1	73955	07/27/12 13:41	AM	TAL BUF
Total/NA	Analysis	Moisture		1	73264	07/20/12 14:00	ZLR	TAL BUF

Client Sample ID: 01

Lab Sample ID: 480-22815-2

Date Collected: 07/16/12 09:40
Matrix: Solid
Date Received: 07/19/12 09:00
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73122	07/19/12 15:48	JMB	TAL BUF
Total/NA	Analysis	8260B		1	73142	07/20/12 02:12	JMB	TAL BUF
Total/NA	Prep	3550B			73834	07/25/12 13:24	DE	TAL BUF
Total/NA	Analysis	8270C		1	73955	07/27/12 14:05	AM	TAL BUF
Total/NA	Analysis	Moisture		1	73264	07/20/12 14:00	ZLR	TAL BUF

Client Sample ID: P4

Lab Sample ID: 480-22815-3

Date Collected: 07/16/12 13:20
Matrix: Solid
Date Received: 07/19/12 09:00
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73122	07/19/12 15:48	JMB	TAL BUF
Total/NA	Analysis	8260B		1	73142	07/20/12 02:37	JMB	TAL BUF
Total/NA	Prep	3550B			73834	07/25/12 13:24	DE	TAL BUF
Total/NA	Analysis	8270C		10	73955	07/27/12 14:29	AM	TAL BUF
Total/NA	Analysis	Moisture		1	73264	07/20/12 14:00	ZLR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-12
California	NELAC	9	1169CA	09-30-12
Connecticut	State Program	1	PH-0568	09-30-12
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	03-31-12
Illinois	NELAC	5	200003	09-30-12
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-12
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-12
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-12
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-12
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-12
Wisconsin	State Program	5	998310390	08-31-12

Method Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-22815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-22815-1	06	Solid	07/16/12 14:30	07/19/12 09:00
480-22815-2	01	Solid	07/16/12 09:40	07/19/12 09:00
480-22815-3	P4	Solid	07/16/12 13:20	07/19/12 09:00

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact:	Date:	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	Analysis Turnaround Time			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W) _____			SDG No.
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			
(315) 452-3237 FAX	☐ 2 weeks			
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Pin #: H1130	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres	Matrix	# of Cont.	Filtered Sample	8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
U6 ✓	7-16-12	1430	NA	Solid	2	N	x	x	
U1 ✓	7-16-12	940	NA	solid	2		X	X	
P4 ✓	7-17-12	1320	NA	Solid	2		X	X	

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

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GES	7-17-12 @ 1515	GES FRI DGF	GES	7-17-12 15:35
[signature]	GES	7/18/12-1400	[signature]	[signature]	7/19/12 0900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Samples packed with ~7 lb. bags of loose ice

410 #2

Form No. CA-C-WI-002, dated 04/07/2011

7/30/2012

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-22815-1

Login Number: 22815

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-23197-1
Client Project/Site: Matt Petroleum Utica #633080

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

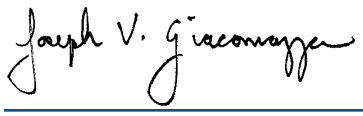
Joseph V. Giacomazza

Authorized for release by:
8/7/2012 11:36:09 AM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
8/7/2012 11:36:10 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Qualifiers

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Job ID: 480-23197-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-23197-1

Receipt
The sample was received on 7/28/2012 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260B: The method blank for batch 74998 contained Toluene 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 8260B: The laboratory control sample (LCS) for batch 74998 exceeded control limits for the following analytes: 4-methyl-2-pentanone, 2-hexanone, acrylonitrile, vinyl acetate and 2-butanone. All work orders in this batch required the 17 compound spike and none of these analytes are in this required spike, so the data has been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Client Sample ID: SIDEWALL Q16 (4-5 FBG)
Date Collected: 07/24/12 09:27
Date Received: 07/28/12 09:00

Lab Sample ID: 480-23197-1
Matrix: Solid
Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6	0.27	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Toluene	ND		5.6	0.42	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
m-Xylene & p-Xylene	ND		11	0.94	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
o-Xylene	ND		5.6	0.73	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Xylenes, Total	ND		11	0.94	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Isopropylbenzene	ND		5.6	0.84	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Naphthalene	ND		5.6	0.75	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1
tert-Butylbenzene	ND		5.6	0.58	ug/Kg	☼	07/30/12 14:49	08/03/12 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*64 - 126*	*07/30/12 14:49*	*08/03/12 16:20*	*1*
Toluene-d8 (Surr)	*86*		*71 - 125*	*07/30/12 14:49*	*08/03/12 16:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*07/30/12 14:49*	*08/03/12 16:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		210	2.4	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Acenaphthylene	ND		210	1.7	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Anthracene	ND		210	5.3	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Benzo(a)anthracene	**27**	**J**	210	3.6	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Benzo(a)pyrene	**25**	**J**	210	5.0	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Benzo(b)fluoranthene	**37**	**J**	210	4.0	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Benzo(g,h,i)perylene	ND		210	2.5	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Benzo(k)fluoranthene	**20**	**J**	210	2.3	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Chrysene	**29**	**J**	210	2.1	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Dibenz(a,h)anthracene	ND		210	2.4	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Fluoranthene	**51**	**J**	210	3.0	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Fluorene	ND		210	4.8	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Indeno(1,2,3-cd)pyrene	ND		210	5.7	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Naphthalene	ND		210	3.4	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Phenanthrene	ND		210	4.3	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1
Pyrene	**42**	**J**	210	1.3	ug/Kg	☼	07/31/12 10:54	08/01/12 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*39 - 146*	*07/31/12 10:54*	*08/01/12 17:51*	*1*
2-Fluorophenol	*74*		*18 - 120*	*07/31/12 10:54*	*08/01/12 17:51*	*1*
2-Fluorobiphenyl	*89*		*37 - 120*	*07/31/12 10:54*	*08/01/12 17:51*	*1*
Phenol-d5	*85*		*11 - 120*	*07/31/12 10:54*	*08/01/12 17:51*	*1*
p-Terphenyl-d14	*109*		*65 - 153*	*07/31/12 10:54*	*08/01/12 17:51*	*1*
Nitrobenzene-d5	*94*		*34 - 132*	*07/31/12 10:54*	*08/01/12 17:51*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Client Sample ID: SIDEWALL Q16 (4-5 FBG)
Date Collected: 07/24/12 09:27
Date Received: 07/28/12 09:00

Lab Sample ID: 480-23197-1
Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.52 g	5 mL	74418	07/30/12 14:49	JMB	TAL BUF
Total/NA	Analysis	8260B		1			74998	08/03/12 16:20	CDC	TAL BUF
Total/NA	Prep	3550B			+30.16 g	1 mL	74549	07/31/12 10:54	CM	TAL BUF
Total/NA	Analysis	8270C		1			74712	08/01/12 17:51	RMM	TAL BUF
Total/NA	Analysis	Moisture		1			74413	07/30/12 14:38	ZR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-12
Connecticut	State Program	1	PH-0568	09-30-12
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	03-31-12
Illinois	NELAC	5	200003	09-30-12
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-12
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-12
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-12
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-12
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-12
Wisconsin	State Program	5	998310390	08-31-12

Method Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-23197-1	SIDEWALL Q16 (4-5 FBG)	Solid	07/24/12 09:27	07/28/12 09:00

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact:	Date:	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	Analysis Turnaround Time			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W)			
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			SDG No.
(315) 452-3237 FAX	☐ 2 weeks			
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Site No.: 633080 Callout ID: 121052	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres	Matrix	# of Cont.		8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
Sidewall Q14 (4-5Fbg)	7/24/12	0927	None	Solid	2	N	x	x	

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

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	GES	7/24/12	GES Sample fridge	GES	7/24/12
GES [signature]	GES	7/27/12 1450	[signature]	7-27-12	14:50
[signature] 7-27-12	18:30				

Form No. CA-C-WI-002, dated 04/07/2011

7.7 #2

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-23197-1

Login Number: 23197

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	False	SAMPLED 07/24/12
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-23418-1
Client Project/Site: Matt Petroleum Utica #633080

For:
New York State D.E.C.
317 Washington Street
Watertown, New York 13601

Attn: Peter S Ouderkirk

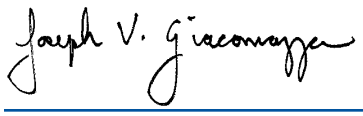
Joseph V. Giacomazza

Authorized for release by:
8/9/2012 11:58:44 AM
Joe Giacomazza
Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman
Project Manager II
sally.hoffman@testamericainc.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
8/9/2012 11:58:44 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Qualifiers

GC/MS Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Job ID: 480-23418-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-23418-1

Receipt
The samples were received on 8/3/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following sample was diluted due to viscosity. SIDEWALL S18 (5-6FBG) (480-23418-1). Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client Sample ID: SIDEWALL S18 (5-6FBG)
Date Collected: 07/31/12 15:10
Date Received: 08/03/12 09:00

Lab Sample ID: 480-23418-1
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.0	0.30	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Ethylbenzene	ND		6.0	0.42	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Toluene	ND		6.0	0.46	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
o-Xylene	ND		6.0	0.79	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Isopropylbenzene	ND		6.0	0.91	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
N-Propylbenzene	ND		6.0	0.48	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
4-Isopropyltoluene	ND		6.0	0.48	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
1,2,4-Trimethylbenzene	ND		6.0	1.2	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
1,3,5-Trimethylbenzene	ND		6.0	0.39	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
n-Butylbenzene	ND		6.0	0.53	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
sec-Butylbenzene	ND		6.0	0.53	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Naphthalene	ND		6.0	0.81	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
Methyl tert-butyl ether	ND		6.0	0.59	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1
tert-Butylbenzene	ND		6.0	0.63	ug/Kg	☼	08/06/12 17:58	08/06/12 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 126*	*08/06/12 17:58*	*08/06/12 23:24*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*08/06/12 17:58*	*08/06/12 23:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*08/06/12 17:58*	*08/06/12 23:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2000	24	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Acenaphthylene	ND		2000	16	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Anthracene	**76**	**J**	2000	51	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Benzo(a)anthracene	**280**	**J**	2000	35	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Benzo(a)pyrene	**270**	**J**	2000	48	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Benzo(b)fluoranthene	**360**	**J**	2000	39	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Benzo(g,h,i)perylene	ND		2000	24	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Benzo(k)fluoranthene	**230**	**J**	2000	22	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Chrysene	**300**	**J**	2000	20	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Dibenz(a,h)anthracene	ND		2000	24	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Fluoranthene	**360**	**J**	2000	29	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Fluorene	ND		2000	46	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Indeno(1,2,3-cd)pyrene	**120**	**J**	2000	55	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Naphthalene	ND		2000	33	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Phenanthrene	**190**	**J**	2000	42	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10
Pyrene	**350**	**J**	2000	13	ug/Kg	☼	08/04/12 08:38	08/06/12 15:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*39 - 146*	*08/04/12 08:38*	*08/06/12 15:02*	*10*
2-Fluorophenol	*78*		*18 - 120*	*08/04/12 08:38*	*08/06/12 15:02*	*10*
2-Fluorobiphenyl	*103*		*37 - 120*	*08/04/12 08:38*	*08/06/12 15:02*	*10*
Phenol-d5	*95*		*11 - 120*	*08/04/12 08:38*	*08/06/12 15:02*	*10*
p-Terphenyl-d14	*125*		*65 - 153*	*08/04/12 08:38*	*08/06/12 15:02*	*10*
Nitrobenzene-d5	*94*		*34 - 132*	*08/04/12 08:38*	*08/06/12 15:02*	*10*

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Client Sample ID: SIDEWALL S19 (5-6FBG)
Date Collected: 07/31/12 15:15
Date Received: 08/03/12 09:00

Lab Sample ID: 480-23418-2
Matrix: Solid
Percent Solids: 77.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.32	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Ethylbenzene	ND		6.5	0.45	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Toluene	ND		6.5	0.49	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
o-Xylene	ND		6.5	0.85	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Isopropylbenzene	ND		6.5	0.98	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
N-Propylbenzene	ND		6.5	0.52	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
4-Isopropyltoluene	ND		6.5	0.52	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
1,2,4-Trimethylbenzene	ND		6.5	1.2	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
1,3,5-Trimethylbenzene	ND		6.5	0.42	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
n-Butylbenzene	ND		6.5	0.56	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
sec-Butylbenzene	ND		6.5	0.56	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Naphthalene	ND		6.5	0.87	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
Methyl tert-butyl ether	ND		6.5	0.64	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1
tert-Butylbenzene	ND		6.5	0.67	ug/Kg	☼	08/06/12 17:58	08/06/12 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 126*	*08/06/12 17:58*	*08/06/12 23:49*	*1*
Toluene-d8 (Surr)	*105*		*71 - 125*	*08/06/12 17:58*	*08/06/12 23:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*08/06/12 17:58*	*08/06/12 23:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**11**	**J**	220	2.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Acenaphthylene	**200**	**J**	220	1.8	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Anthracene	**120**	**J**	220	5.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Benzo(a)anthracene	**630**		220	3.8	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Benzo(a)pyrene	**1100**		220	5.2	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Benzo(b)fluoranthene	**1100**		220	4.2	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Benzo(g,h,i)perylene	**590**		220	2.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Benzo(k)fluoranthene	**400**		220	2.4	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Chrysene	**630**		220	2.2	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Dibenz(a,h)anthracene	**86**	**J**	220	2.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Fluoranthene	**1100**		220	3.1	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Fluorene	ND		220	5.0	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Indeno(1,2,3-cd)pyrene	**420**		220	6.0	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Naphthalene	ND		220	3.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Phenanthrene	**310**		220	4.6	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1
Pyrene	**1400**		220	1.4	ug/Kg	☼	08/04/12 08:38	08/06/12 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*39 - 146*	*08/04/12 08:38*	*08/06/12 15:26*	*1*
2-Fluorophenol	*64*		*18 - 120*	*08/04/12 08:38*	*08/06/12 15:26*	*1*
2-Fluorobiphenyl	*80*		*37 - 120*	*08/04/12 08:38*	*08/06/12 15:26*	*1*
Phenol-d5	*77*		*11 - 120*	*08/04/12 08:38*	*08/06/12 15:26*	*1*
p-Terphenyl-d14	*96*		*65 - 153*	*08/04/12 08:38*	*08/06/12 15:26*	*1*
Nitrobenzene-d5	*77*		*34 - 132*	*08/04/12 08:38*	*08/06/12 15:26*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Client Sample ID: SIDEWALL S18 (5-6FBG)

Lab Sample ID: 480-23418-1

Date Collected: 07/31/12 15:10
Matrix: Solid
Date Received: 08/03/12 09:00
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.46 g	1.0 mL	75376	08/06/12 17:58	RJ	TAL BUF
Total/NA	Analysis	8260B		1			75363	08/06/12 23:24	RJ	TAL BUF
Total/NA	Prep	3550B			+30.54 g	1 mL	75163	08/04/12 08:38	MRB	TAL BUF
Total/NA	Analysis	8270C		10			75230	08/06/12 15:02	HTL	TAL BUF
Total/NA	Analysis	Moisture		1			75553	08/07/12 12:39	ZLR	TAL BUF

Client Sample ID: SIDEWALL S19 (5-6FBG)

Lab Sample ID: 480-23418-2

Date Collected: 07/31/12 15:15
Matrix: Solid
Date Received: 08/03/12 09:00
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.87 g	1.0 mL	75376	08/06/12 17:58	RJ	TAL BUF
Total/NA	Analysis	8260B		1			75363	08/06/12 23:49	RJ	TAL BUF
Total/NA	Prep	3550B			+30.20 g	1 mL	75163	08/04/12 08:38	MRB	TAL BUF
Total/NA	Analysis	8270C		1			75230	08/06/12 15:26	HTL	TAL BUF
Total/NA	Analysis	Moisture		1			75553	08/07/12 12:39	ZLR	TAL BUF

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-12
Connecticut	State Program	1	PH-0568	09-30-12
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	03-31-12
Illinois	NELAC	5	200003	09-30-12
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-12
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-12
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-12
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-12
Wisconsin	State Program	5	998310390	08-31-12

Method Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Matt Petroleum Utica #633080

TestAmerica Job ID: 480-23418-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-23418-1	SIDEWALL S18 (5-6FBG)	Solid	07/31/12 15:10	08/03/12 09:00
480-23418-2	SIDEWALL S19 (5-6FBG)	Solid	07/31/12 15:15	08/03/12 09:00

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Peter Ouderkirk	Site Contact:	Date:	COC No:
Groundwater & Enviornmental Services, Inc.	Tel/Fax: (585) 226-2466 ext.5438	Lab Contact:	Carrier:	1 of 1 COCs
300 Gateway Park Drive	**Analysis Turnaround Time**			Job No. 0602409 / 08 / 272
North Syracuse, NY 13212	Calendar (C) or Work Days (W) _____			
(800) 220-3069 Phone	TAT if different from Below _Standard TAT (10day)			
(315) 452-3237 FAX	☐ 2 weeks			SDG No.
Project Name: NYSDEC- Utica Sp#88-09026	☐ 1 week			
Site: Leland Ave, Utica NY	☐ 2 days			
Site No.: 633080 Callout ID: 121052	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Pres	Matrix	# of Cont.	Filtered Sample	8260B - STARS List - VOA - 8260	8270C - NY STARS - Semi-volatiles	Sample Specific Notes:
Sidewall S18 (5-6fbg)	7/31/12	1510	None	Solid	2	N	x	x	
Sidewall S19 (5-6fbg)	7/31/12	1515	None	Solid	2	N	x	x	

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

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: Standard Turn Around Time

Relinquished by:	Company: GES	Date/Time: 7/31/12 1715	Received by:GES Sample Fridge	Company: GES	Date/Time: 7/31/2012 1515
Relinquished by:	Company: GES	Date/Time: 08-02-12 16:00	Received by:	Company: Syr	Date/Time: 08-02-12, 16:00
Relinquished by:	Company: Syr 08-02-12	Date/Time: 19:00	Received by:	Company:	Date/Time: 8/3/12 0900

Form No. CA-C-WI-002, dated 04/07/2011

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-23418-1

Login Number: 23418

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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