

Environmental Sampling Report Westchester County Airport Landfill



Samples Collected on April 2, 2015

Report Date: January 5, 2016

Environmental Sampling Report
 Westchester County Airport, T-Harrison, Westchester County
 Samples Collected on April 2, 2015

Background:

The NYSDEC/Region 3 Office/Solid Waste Program (DEC) is working with the Office of the Attorney General (OAG) to identify, map and evaluate inactive landfills located with the New York City watershed and to characterize water quality impacts associated with these facilities. This is a solid waste landfill, approximately 2 acres in size, located on the property of the Westchester County Airport (the Airport), and discovered during investigation of the adjacent Harrison Subresidency Remediation Site (NYS Registry of Inactive Hazardous Waste Disposal Sites Site #360035). The site was also referred to DEC as a complaint by New York City Department of Environmental Protection (DEP) staff who observed iron floc deposits in the stream which flows from the landfill area into the Kensico Reservoir.

Purpose of the Sampling:

To make a preliminary assessment of water quality impact caused by the landfill. Results of this sampling will be used together with other available information to determine the need for further investigation and/or remedial measures at this site.

Methods:

As summarized in Table 1, below, a total of 7 environmental samples were collected by staff from DEC and OAG including 2 groundwater samples, 2 surface water samples 2 sediment samples and 1 iron floc sample. Samples WCA-3 and WCA-4 were split with the consultant for the Airport. Sampling locations are shown on Figure 1, below. Figure 2 shows the sampling locations in relation to site terrain derived from LiDAR imagery.

Table 1. Westchester County Airport Landfill Investigation Summary of Samples Collected by DEC & OAG Staff on April 2, 2015					
Field ID (short)	Sample Time	Relative Hydrologic Position	Matrix	GPS Coordinates	Parameters
WCA-1	11:00	Upgradient	Groundwater	41.07223, -73.71310	Part 360 Baseline
WCA-2	14:00	Upgradient	Surface Water	41.07107, -73.71197	
WCA-3	12:50	Downgradient	Groundwater	41.06953, -73.71443	
WCA-4	13:00	Downgradient	Surface Water	41.06996, -73.71293	
WCA-5	13:30	Downgradient	Sediment	41.06997, -73.71294	Metals, SVOCs,
WCA-6	14:30	Upgradient	Sediment	41.07107, -73.71197	Pesticides, PCBs
WCA-7	11:45	Downgradient	Iron Floc	41.06997, -73.71294	Metals, TOC

Groundwater samples were collected using a low flow submersible pump with dedicated polyethylene tubing. Field parameters were monitored during purging and sampling using a Horiba multi-parameter meter with a flow cell. Sampling was initiated after field parameters were stable and a minimum of three well volumes had been purged. The upgradient groundwater

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sample (WCA-1) was collected from monitoring well MW-47. The downgradient groundwater sample (WCA-3) was collected from monitoring well DPW-1.



- Iron Floc
- Sediment (Sed)
- Surface Water (SW)
- ⊕ Groundwater (Gw)
- 1943 Stream

Scale: 1:2,800
 200 100 0 200 Feet



Photo: NYSITS, Spring 2007

S. Parisio, NYSDEC
 M. Roma, NYSOAG
 December 2015

**Westchester Co. Airport. April 2, 2015 Sampling Locations:
 Groundwater, Surface Water, Iron Floc, and Sediment**

Figure 1. Sampling Locations

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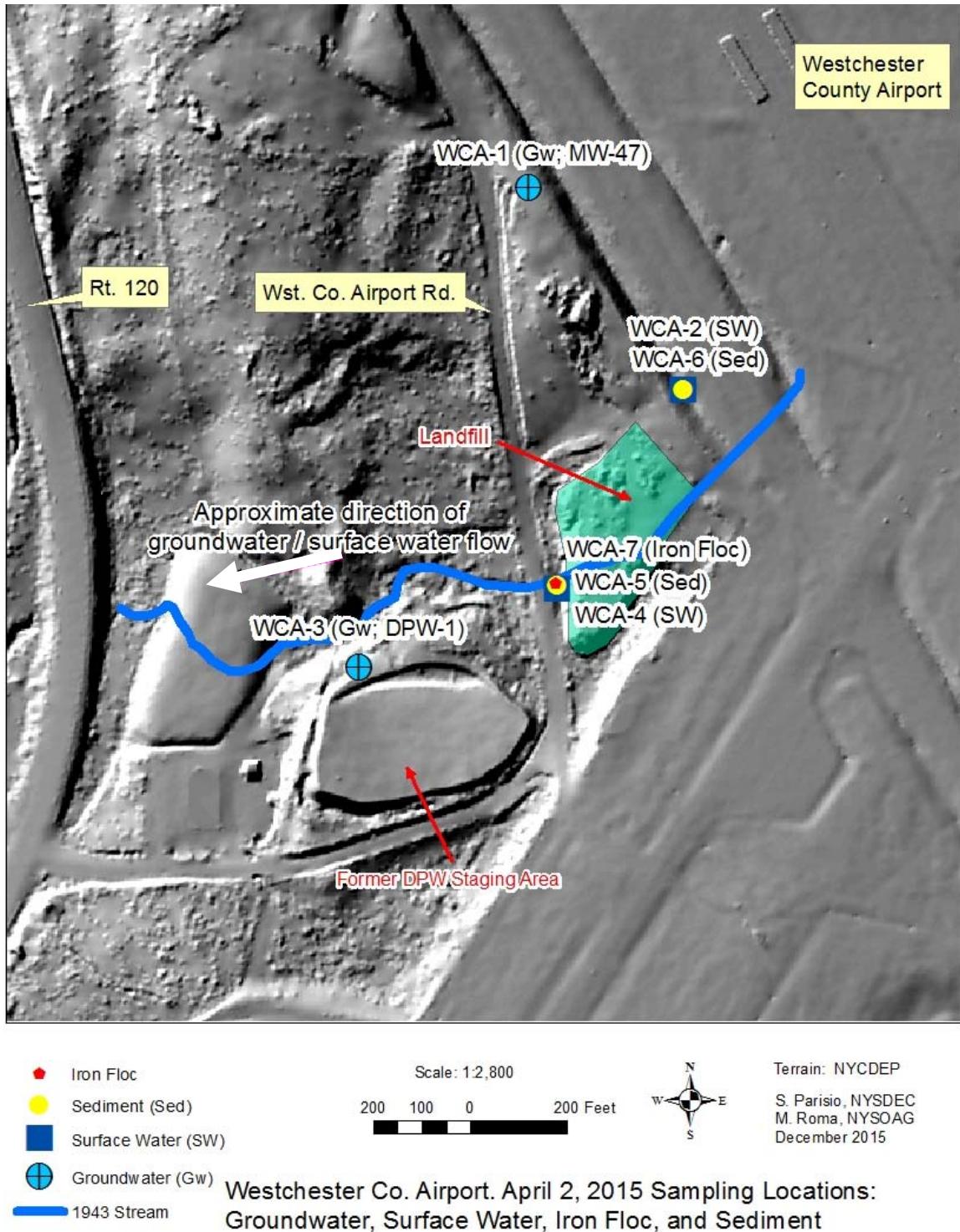


Figure 2. Sampling locations in relation to site terrain derived from LiDAR imagery

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The downgradient surface water sample (WCA-4) was collected using a peristaltic pump, from a point located at the toe of the landfill slope but upstream of the area of iron floc precipitation. The downgradient sediment sample (WCA-5) was collected approximately 6 feet downstream from the surface water sample using a plastic scoop. The upgradient surface water sample (WCA-2) was collected from a drainage ditch adjacent to the runway by dipping and pouring from an unpreserved plastic sample container. The upgradient sediment sample (WCA-6) was collected from the same location using a plastic scoop.

The iron floc sample (WCA-7) was collected approximately 5 feet downstream from the sediment sample using a plastic scoop and a set of 4 one-liter glass jars. As shown in figure 3 below, during sampling, solids were concentrated by allowing the suspension to settle momentarily and tilting the scoop to decant the supernatant before transferring to the sample jar. After settling in the jars, the solids were further concentrated by decanting supernatant liquid from the jars.



Figure 3. Collection of the downgradient iron floc sample.

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All samples were placed in sealed coolers with chain of custody and ice for shipment to the contract laboratory by UPS overnight delivery.

Water samples were tested for volatile organic compounds (VOCs) by gas chromatography/mass spectrometry (GC/MS) using EPA Method 8260C. Target analyte list (TAL) metals were analyzed in liquid and solid matrix samples by Inductively Coupled Plasma (ICP) Spectrometry using EPA Method 6010C. Mercury was analyzed using Cold Vapor Atomic Absorption (CVAA) Spectrometry using EPA Method 7470A. Sediment samples were analyzed for semi-volatile organic compounds (SVOCs) by GC/MS using EPA Method 8270D and for pesticides and PCBs by GC using EPA Methods 8081B and 8082A, respectively. Total Organic Carbon in the floc sample was analyzed using the Lloyd Kahn Method. Further details regarding the analytical methods including quality assurance and quality control data are provided in the Analytical Report attached to this report as Appendix A.

Results:

Results of chemical analysis of the samples are summarized in Tables 2 and 3, below. The full Analytical Report is attached to this report as Appendix 1.

SVOCs and PCBs were not detected in either of the sediment samples. Pesticides were not detected with exception of DDE and DDT in sediment and those detections were similar in upstream and downstream sediments and were well below applicable levels of concern. VOCs were not detected with the exception of 1 ug/L of bromoform in the upgradient groundwater sample.

Iron was detected in downgradient surface water and groundwater at concentrations exceeding both the upgradient concentrations and the applicable water quality standard. Manganese was detected above its standard in downgradient groundwater only.

As expected, the iron floc sample showed an extremely high concentration of iron (56.8%) as well as an elevated concentration of manganese (3.5%). When expressed as the mineral ferrihydrite, $\text{Fe}(\text{OH})_3$, the iron floc accounted for more than 100 percent by weight of the sample (108%) indicating that the iron floc sample was very pure and was not diluted with the underlying sediments and also that there may have been other forms of iron present in the sample.

Of greater concern, was the presence of arsenic at a concentration of 78.4 mg/kg in the floc sample. This exceeds the Division of Fish, Wildlife and Marine Resources screening value for contaminated sediments and will require further evaluation.

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Table 2. Summary of Sampling Results - Groundwater and Surface Water Samples							
Parameters, units	Downgradient		Upgradient		WQ Standards		
	Matrix:	GW	SW	GW	SW	GW	SW
	Sample ID:	WCA-3	WCA-4	WCA-1	WCA-2	Class GA	Class A
Alkalinity, mg/L	116 (120)	112 (120)	156	68			
Aluminum, ug/L	ND (239)	77 J (ND)	ND	140 J		100	
Barium, mg/L	0.036 (0.041)	0.037 (0.035)	0.035	0.033	1	1	
BOD, mg/L	ND (ND)	ND (ND)	ND	3.0			
Boron, ug/L	25 (9.01)	24 (13.7)	16 J	15 J	1	10	
Calcium, mg/L	34.3 (33.6)	31.6 (30.1)	46.8	20.6			
Chloride, mg/L	2.4 (2.45)	6.5 B (6)	4.8	3.9 B	250	250	
COD, mg/L	7.2 J (23)	8.8 J (13)	14.4	ND			
Hardness, mg/L	120 (105)	124 (112)	188	88			
Iron, mg/L	0.35 (1.2)	2.5 (2.25)	0.029 J	0.15	0.3	0.3	
Magnesium, mg/L	5.6 (5.15)	10.1 (9.02)	16.6	7.3	35	35	
Manganese, mg/L	1.2 (1.08)	0.260 (0.201)	0.019	0.009	0.3	0.3	
Nickel, ug/L	ND (ND)	ND (ND)	1.6 J	ND	100	100	
Nitrate as N, mg/L	ND (ND)	0.022 J (ND)	0.35	0.020 J	10	10	
Potassium, mg/L	3.6 (4.13)	3.6 (3)	3.4	2.9			
Sodium, mg/L	2.8 (2.09)	6.1 (4.69)	7.9	4.7	20		
Sulfate, mg/L	ND (5.81)	ND (16)	40.4	1.8	250	250	
TDS, mg/L	110 (151)	67 (129)	221	104	500		
TKN, mg/L	0.25 B (1.53)	0.26 B (1.2)	0.24 B	0.29 B			
TOC, mg/L	2.4 B (15.1)	2.5 B (18.1)	3.6	2.8			
Total VOCs, ug/L	ND (ND)	ND (ND)	1	ND	5	5	
Zinc, ug/L	3.4 JB (23)	3.7 JB (ND)	7.6 JB	2.6 JB	2000	2000	

Notes:

- Parameters included in this table are only those which were detected in one or more samples.
- Abbreviations: GW = groundwater; SW = surface water; WQ = water quality; ND = not detected
- Values in parentheses are results of analysis of split samples collected by the landfill owner's consultant.
- Values followed by the "J" data qualifier were detected at a level which is above the detection limit but below the quantitation limit (RL). Values followed by the "B" data qualifier were detected at some level in the lab blank.
- Values highlighted in yellow with bold type exceed the applicable groundwater or surface water quality standard.

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Table 3. Summary of Sampling Results - Sediment and Floc Samples					
Parameters, units		Downgradient		Upgradient	Sediment Criteria
	Matrix:	Sediment	Floc	Sediment	
	Sample ID:	WCA-5	WCA-7	WCA-6	
	4,4-DDE, ug/Kg	38 J	NT	18 J	48,000
	4,4-DDT, ug/Kg	40 J	NT	ND	
	Aluminum, mg/Kg	32,900	1,400	3,760	
	Arsenic, mg/Kg	8.1 J	78.4	2.5 J	33
	Barium, mg/Kg	224	1,040	106	
	Beryllium, , mg/Kg	1.4	0.33 J	0.18J	
	Cadmium, mg/Kg	0.61 J	ND	0.16 J	5
	Calcium, mg/L	7,530 B	19,600	4,540 B	
	Chromium, mg/Kg	57.5	ND	7.4	110
	Cobalt, mg/Kg	18.9	37.8	3.2	
	Copper, mg/Kg	54.9	3.1 J	10.0	150
	Iron, mg/Kg	48,500 B	568,000 B	35,700 B	40,000
	Lead, mg/Kg	42.6	5.4 J	6.9	130
	Magnesium, mg/Kg	10,600	1,880	1,710	
	Manganese, mg/Kg	633 B	34,700	1,510 B	1,100
	Mercury, mg/Kg	0.061 J	ND	ND	1.0
	Nickel, mg/Kg	40.0	18.6 J	6.7 J	49
	Potassium, mg/Kg	6,350	666	1,310	
	Silicon	NT	19,000 B	NT	
	Silver, mg/Kg	ND	5.9	ND	2.2
	Sodium, mg/Kg	279 J	158 J	106 J	
	Vanadium, mg/Kg	88.5	23.1	14.6	
	Zinc, mg/Kg	147 B	24.8 B	34.0 B	460
	TOC, mg/Kg	NT	75,400 B	NT	
Notes:					
1. Parameters included in this table are those which were detected in one or more samples.					
2. Abbreviations: NT = not tested; ND = not detected; NS = no standard					
3. Values in parentheses are results of analysis of split samples collected by the landfill owner's consultant.					
4. Values followed by the "J" data qualifier were detected at a level which is above the detection limit but below the quantitation limit (RL). Values followed by the "B" data qualifier were detected at some level in the lab blank.					
5. Values highlighted in yellow with bold type exceed the applicable sediment criteria.					
6. Sediment criteria are the Class C values from Table 5 of the Division of Fish, Wildlife & Marine Resources June 2014 <i>Technical Guidance for Screening and Assessment of Contaminated Sediment</i> .					

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Conclusions:

Based on sampling carried out on April 2, 2015 by staff from DEC and OAG, the downgradient well sampled shows elevated levels of iron and manganese but, due to the less than optimum location (450 feet distant from the landfill), this may not represent the full extent of landfill-derived groundwater quality impact. In order to determine the full extent of landfill-derived groundwater quality impact at this site, it would be necessary to install a new well at a more suitable location, as shown in figure 4, below.



The contaminant of greatest concern is arsenic which was detected in the iron floc sample immediately downgradient of the landfill. This is of concern and requires further evaluation because of the toxicity of arsenic and the potential for arsenic-contaminated iron floc to migrate downstream during precipitation events when high volumes of storm water runoff are present. Drainage from the site flows into the Kensico Reservoir which is connected to New York City's water supply. Further sampling and evaluation is recommended to determine whether arsenic mobilized by the landfill is impacting wildlife, wildlife habitat or drinking water quality downgradient of the site.

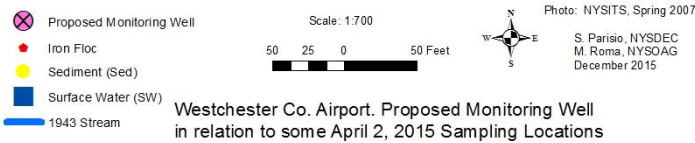


Figure 4. Recommended downgradient monitoring well location.

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APPENDIX A

Analytical Report

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: 480-77695-1

Client Project/Site: Westchester County Airport Landfill

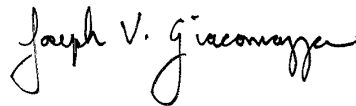
For:

New York State D.E.C.

21 South Putt Corners Road

New Paltz, New York 12561

Attn: Mr. Steve Parisio



Authorized for release by:

4/16/2015 5:04:25 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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

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

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

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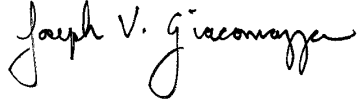
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample 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 Management Assistant II
4/16/2015 5:04:25 PM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC 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.
X	Surrogate is outside control limits

Metals

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.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Job ID: 480-77695-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-77695-1

Receipt

The samples were received on 4/3/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.3° C, 2.5° C and 2.9° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 234438 recovered above the upper control limit for Idomethane, Carbon Tetrachloride, Trichlorofluoromethane, 1,1,1,2-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MM3-040215-WCA-1 (480-77695-1), MM3-040215-WCA-2 (480-77695-2), MM3-040215-WCA-3 (480-77695-3), MM3-040215-WCA-4 (480-77695-4) and TRIP BLANK (480-77695-8).

Method(s) 8260C: The laboratory control sample (LCS) for batch 234438 recovered outside control limits for the following analyte: 1,1,1,2-Tetrachloroethane. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported. The following samples are impacted: MM3-040215-WCA-1 (480-77695-1), MM3-040215-WCA-2 (480-77695-2), MM3-040215-WCA-3 (480-77695-3), MM3-040215-WCA-4 (480-77695-4) and TRIP BLANK (480-77695-8)

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

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix : MM3-040215-WCA-5 (480-77695-5) and MM3-040215-WCA-6 (480-77695-6). As such, surrogate recoveries are below the calibration range, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method(s) 8270D: The laboratory control sample (LCS) for batch 234046 recovered outside control limits for the following analyte: 4-Chloroaniline. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

HPLC/IC

Method(s) 300.0: The following samples were reported with elevated reporting limits for all analytes: MM3-040215-WCA-1 (480-77695-1), MM3-040215-WCA-2 (480-77695-2), MM3-040215-WCA-3 (480-77695-3), MM3-040215-WCA-4 (480-77695-4), (480-77681-J-4), (480-77681-J-4 MS), (480-78057-A-7) and (480-78057-A-7 MS). The sample was analyzed at a dilution based on screening results.

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

GC Semi VOA

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix: MM3-040215-WCA-5 (480-77695-5) and MM3-040215-WCA-6 (480-77695-6). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

Metals

Method(s) 6010C: The sample ID on the raw data for this sample is incorrect. This is a serial dilution of sample 480-77695-A-7-A. The sample ID was corrected and dilution factor (5x) added prior to data upload.

Case Narrative

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Job ID: 480-77695-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

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

General Chemistry

Method(s) SM 2120B: Sample was filtered, true color was observed.

MM3-040215-WCA-4 (480-77695-4)

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

Organic Prep

Method(s) 3550C: The following samples: MM3-040215-WCA-5 (480-77695-5) and MM3-040215-WCA-6 (480-77695-6) was decanted prior to preparation.

Method(s) 3550C: The following samples:MM3-040215-WCA-5 (480-77695-5), MM3-040215-WCA-6 (480-77695-6), (480-77695-A-5 MS) and (480-77695-A-5 MSD) were decanted prior to preparation .

Method(s) 3550C: The following samples: MM3-040215-WCA-5 (480-77695-5) and MM3-040215-WCA-6 (480-77695-6) were decanted prior to preparation.

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: MM3-040215-WCA-5 (480-77695-5) and MM3-040215-WCA-6 (480-77695-6).

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



Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-1

Lab Sample ID: 480-77695-1

Date Collected: 04/02/15 11:00

Upgradient Groundwater

Matrix: Water

Date Received: 04/03/15 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.35	ug/L			04/07/15 06:16	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/15 06:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/15 06:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/15 06:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/15 06:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/15 06:16	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			04/07/15 06:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/15 06:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/15 06:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/15 06:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/15 06:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/15 06:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/15 06:16	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/15 06:16	1
Methyl Ethyl Ketone	ND		10	1.3	ug/L			04/07/15 06:16	1
methyl isobutyl ketone	ND		5.0	2.1	ug/L			04/07/15 06:16	1
Acetone	ND		10	3.0	ug/L			04/07/15 06:16	1
Acrylonitrile	ND		5.0	0.83	ug/L			04/07/15 06:16	1
Benzene	ND		1.0	0.41	ug/L			04/07/15 06:16	1
Bromochloromethane	ND		1.0	0.87	ug/L			04/07/15 06:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/15 06:16	1
Bromoform	1.0		1.0	0.26	ug/L			04/07/15 06:16	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/15 06:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/15 06:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/15 06:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/15 06:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/15 06:16	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/15 06:16	1
Chloroform	ND		1.0	0.34	ug/L			04/07/15 06:16	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/15 06:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/15 06:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/15 06:16	1
Dibromomethane	ND		1.0	0.41	ug/L			04/07/15 06:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/15 06:16	1
Iodomethane	ND		1.0	0.30	ug/L			04/07/15 06:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/15 06:16	1
Styrene	ND		1.0	0.73	ug/L			04/07/15 06:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/15 06:16	1
Toluene	ND		1.0	0.51	ug/L			04/07/15 06:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/15 06:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/15 06:16	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			04/07/15 06:16	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/15 06:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/15 06:16	1
Vinyl acetate	ND		5.0	0.85	ug/L			04/07/15 06:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/15 06:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/15 06:16	1
m&p-Xylene	ND		2.0	0.66	ug/L			04/07/15 06:16	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/15 06:16	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-1

Ugradient Groundwater

Lab Sample ID: 480-77695-1

Date Collected: 04/02/15 11:00

Matrix: Water

Date Received: 04/03/15 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		04/07/15 06:16	1
Toluene-d8 (Surr)	99		71 - 126		04/07/15 06:16	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/07/15 06:16	1
Dibromofluoromethane (Surr)	106		60 - 140		04/07/15 06:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		04/11/15 08:00	04/13/15 13:12	1
Antimony	ND		0.020	0.0068	mg/L		04/11/15 08:00	04/13/15 13:12	1
Arsenic	ND		0.010	0.0056	mg/L		04/11/15 08:00	04/13/15 13:12	1
Barium	0.035		0.0020	0.00070	mg/L		04/11/15 08:00	04/13/15 13:12	1
Beryllium	ND		0.0020	0.00030	mg/L		04/11/15 08:00	04/13/15 13:12	1
Boron	0.016	J	0.020	0.0040	mg/L		04/11/15 08:00	04/13/15 13:12	1
Cadmium	ND		0.0010	0.00050	mg/L		04/11/15 08:00	04/13/15 13:12	1
Calcium	46.8		0.50	0.10	mg/L		04/11/15 08:00	04/13/15 13:12	1
Chromium	ND		0.0040	0.0010	mg/L		04/11/15 08:00	04/13/15 13:12	1
Cobalt	ND		0.0040	0.00063	mg/L		04/11/15 08:00	04/13/15 13:12	1
Copper	ND		0.010	0.0016	mg/L		04/11/15 08:00	04/13/15 13:12	1
Iron	0.029	J	0.050	0.019	mg/L		04/11/15 08:00	04/13/15 13:12	1
Lead	ND		0.0050	0.0030	mg/L		04/11/15 08:00	04/13/15 13:12	1
Magnesium	16.6		0.20	0.043	mg/L		04/11/15 08:00	04/13/15 13:12	1
Manganese	0.019		0.0030	0.00040	mg/L		04/11/15 08:00	04/13/15 13:12	1
Nickel	0.0016	J	0.010	0.0013	mg/L		04/11/15 08:00	04/13/15 13:12	1
Potassium	3.4		0.50	0.10	mg/L		04/11/15 08:00	04/13/15 13:12	1
Selenium	ND		0.015	0.0087	mg/L		04/11/15 08:00	04/13/15 13:12	1
Silver	ND		0.0030	0.0017	mg/L		04/11/15 08:00	04/13/15 13:12	1
Sodium	7.9		1.0	0.32	mg/L		04/11/15 08:00	04/13/15 13:12	1
Thallium	ND		0.020	0.010	mg/L		04/11/15 08:00	04/13/15 13:12	1
Vanadium	ND		0.0050	0.0015	mg/L		04/11/15 08:00	04/13/15 13:12	1
Zinc	0.0076	J B	0.010	0.0015	mg/L		04/11/15 08:00	04/13/15 13:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/07/15 09:05	04/07/15 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		2.0	0.73	mg/L			04/10/15 22:57	10
Cyanide, Total	ND		0.010	0.0050	mg/L		04/06/15 14:12	04/07/15 12:53	1
Ammonia	ND		0.020	0.0090	mg/L			04/07/15 15:38	1
Total Kjeldahl Nitrogen	0.24	B	0.20	0.15	mg/L		04/13/15 03:22	04/14/15 11:54	1
Nitrate as N	0.35		0.050	0.020	mg/L as N			04/03/15 21:52	1
Chemical Oxygen Demand	14.4		10.0	5.0	mg/L			04/08/15 14:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		04/15/15 12:26	04/16/15 01:21	1
Total Organic Carbon	3.6		1.0	0.43	mg/L			04/08/15 13:00	1
Sulfate	40.4		10.0	3.0	mg/L			04/13/15 20:32	2
Alkalinity	156		5.0	0.79	mg/L			04/13/15 09:00	1
Hardness, as CaCO3	188		4.0	1.1	mg/L			04/08/15 14:43	1
Total Dissolved Solids	221		10.0	4.0	mg/L			04/08/15 05:02	1
Chloride	4.8		1.0	0.46	mg/L			04/13/15 18:04	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			04/03/15 17:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-1
Date Collected: 04/02/15 11:00
Date Received: 04/03/15 10:00

Upgradient Groundwater

Lab Sample ID: 480-77695-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	5.00		5.00	5.00	Color Units			04/04/15 10:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-2

Date Collected: 04/02/15 14:00

Date Received: 04/03/15 10:00

Upstream Surface Water

Lab Sample ID: 480-77695-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.35	ug/L			04/07/15 06:39	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/15 06:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/15 06:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/15 06:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/15 06:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/15 06:39	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			04/07/15 06:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/15 06:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/15 06:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/15 06:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/15 06:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/15 06:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/15 06:39	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/15 06:39	1
Methyl Ethyl Ketone	ND		10	1.3	ug/L			04/07/15 06:39	1
methyl isobutyl ketone	ND		5.0	2.1	ug/L			04/07/15 06:39	1
Acetone	ND		10	3.0	ug/L			04/07/15 06:39	1
Acrylonitrile	ND		5.0	0.83	ug/L			04/07/15 06:39	1
Benzene	ND		1.0	0.41	ug/L			04/07/15 06:39	1
Bromochloromethane	ND		1.0	0.87	ug/L			04/07/15 06:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/15 06:39	1
Bromoform	ND		1.0	0.26	ug/L			04/07/15 06:39	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/15 06:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/15 06:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/15 06:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/15 06:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/15 06:39	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/15 06:39	1
Chloroform	ND		1.0	0.34	ug/L			04/07/15 06:39	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/15 06:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/15 06:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/15 06:39	1
Dibromomethane	ND		1.0	0.41	ug/L			04/07/15 06:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/15 06:39	1
Iodomethane	ND		1.0	0.30	ug/L			04/07/15 06:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/15 06:39	1
Styrene	ND		1.0	0.73	ug/L			04/07/15 06:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/15 06:39	1
Toluene	ND		1.0	0.51	ug/L			04/07/15 06:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/15 06:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/15 06:39	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			04/07/15 06:39	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/15 06:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/15 06:39	1
Vinyl acetate	ND		5.0	0.85	ug/L			04/07/15 06:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/15 06:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/15 06:39	1
m&p-Xylene	ND		2.0	0.66	ug/L			04/07/15 06:39	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/15 06:39	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-2

Lab Sample ID: 480-77695-2

Date Collected: 04/02/15 14:00

Upstream Surface Water

Matrix: Water

Date Received: 04/03/15 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/07/15 06:39	1
Toluene-d8 (Surr)	104		71 - 126		04/07/15 06:39	1
4-Bromofluorobenzene (Surr)	96		73 - 120		04/07/15 06:39	1
Dibromofluoromethane (Surr)	108		60 - 140		04/07/15 06:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.14	J	0.20	0.060	mg/L		04/08/15 09:05	04/08/15 21:32	1
Antimony	ND		0.020	0.0068	mg/L		04/08/15 09:05	04/08/15 21:32	1
Arsenic	ND		0.010	0.0056	mg/L		04/08/15 09:05	04/08/15 21:32	1
Barium	0.033		0.0020	0.00070	mg/L		04/08/15 09:05	04/08/15 21:32	1
Beryllium	ND		0.0020	0.00030	mg/L		04/08/15 09:05	04/08/15 21:32	1
Boron	0.015	J	0.020	0.0040	mg/L		04/08/15 09:05	04/09/15 11:14	1
Cadmium	ND		0.0010	0.00050	mg/L		04/08/15 09:05	04/08/15 21:32	1
Calcium	20.6		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:32	1
Chromium	ND		0.0040	0.0010	mg/L		04/08/15 09:05	04/08/15 21:32	1
Cobalt	ND		0.0040	0.00063	mg/L		04/08/15 09:05	04/08/15 21:32	1
Copper	ND		0.010	0.0016	mg/L		04/08/15 09:05	04/08/15 21:32	1
Iron	0.15		0.050	0.019	mg/L		04/08/15 09:05	04/08/15 21:32	1
Lead	ND		0.0050	0.0030	mg/L		04/08/15 09:05	04/08/15 21:32	1
Magnesium	7.3		0.20	0.043	mg/L		04/08/15 09:05	04/09/15 11:14	1
Manganese	0.0090		0.0030	0.00040	mg/L		04/08/15 09:05	04/08/15 21:32	1
Nickel	ND		0.010	0.0013	mg/L		04/08/15 09:05	04/08/15 21:32	1
Potassium	2.9		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:32	1
Selenium	ND		0.015	0.0087	mg/L		04/08/15 09:05	04/08/15 21:32	1
Silver	ND		0.0030	0.0017	mg/L		04/08/15 09:05	04/08/15 21:32	1
Sodium	4.7		1.0	0.32	mg/L		04/08/15 09:05	04/09/15 11:14	1
Thallium	ND		0.020	0.010	mg/L		04/08/15 09:05	04/08/15 21:32	1
Vanadium	ND		0.0050	0.0015	mg/L		04/08/15 09:05	04/08/15 21:32	1
Zinc	0.0026	J B	0.010	0.0015	mg/L		04/08/15 09:05	04/08/15 21:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/07/15 09:05	04/07/15 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			04/10/15 23:06	5
Cyanide, Total	ND		0.010	0.0050	mg/L		04/06/15 14:12	04/07/15 12:55	1
Ammonia	ND		0.020	0.0090	mg/L			04/07/15 15:39	1
Total Kjeldahl Nitrogen	0.29	B	0.20	0.15	mg/L		04/13/15 03:22	04/14/15 11:54	1
Nitrate as N	0.020	J	0.050	0.020	mg/L as N			04/03/15 18:04	1
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			04/08/15 14:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		04/15/15 12:26	04/16/15 01:21	1
Total Organic Carbon	2.8	F1	1.0	0.43	mg/L			04/08/15 13:55	1
Sulfate	1.8	J	5.0	1.5	mg/L			04/13/15 20:02	1
Alkalinity	68.0		5.0	0.79	mg/L			04/13/15 09:00	1
Hardness, as CaCO3	88.0		4.0	1.1	mg/L			04/08/15 14:43	1
Total Dissolved Solids	104		10.0	4.0	mg/L			04/08/15 05:02	1
Chloride	3.9	B	1.0	0.46	mg/L			04/13/15 18:12	1
Biochemical Oxygen Demand	3.0		2.0	2.0	mg/L			04/03/15 17:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-2
Date Collected: 04/02/15 14:00
Date Received: 04/03/15 10:00

Upstream Surface Water

Lab Sample ID: 480-77695-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	20.0		5.00	5.00	Color Units			04/04/15 10:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-3
Date Collected: 04/02/15 12:50
Date Received: 04/03/15 10:00

Downgradient Groundwater

Lab Sample ID: 480-77695-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.35	ug/L			04/07/15 07:02	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/15 07:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/15 07:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/15 07:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/15 07:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/15 07:02	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			04/07/15 07:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/15 07:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/15 07:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/15 07:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/15 07:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/15 07:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/15 07:02	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/15 07:02	1
Methyl Ethyl Ketone	ND		10	1.3	ug/L			04/07/15 07:02	1
methyl isobutyl ketone	ND		5.0	2.1	ug/L			04/07/15 07:02	1
Acetone	ND		10	3.0	ug/L			04/07/15 07:02	1
Acrylonitrile	ND		5.0	0.83	ug/L			04/07/15 07:02	1
Benzene	ND		1.0	0.41	ug/L			04/07/15 07:02	1
Bromochloromethane	ND		1.0	0.87	ug/L			04/07/15 07:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/15 07:02	1
Bromoform	ND		1.0	0.26	ug/L			04/07/15 07:02	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/15 07:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/15 07:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/15 07:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/15 07:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/15 07:02	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/15 07:02	1
Chloroform	ND		1.0	0.34	ug/L			04/07/15 07:02	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/15 07:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/15 07:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/15 07:02	1
Dibromomethane	ND		1.0	0.41	ug/L			04/07/15 07:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/15 07:02	1
Iodomethane	ND		1.0	0.30	ug/L			04/07/15 07:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/15 07:02	1
Styrene	ND		1.0	0.73	ug/L			04/07/15 07:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/15 07:02	1
Toluene	ND		1.0	0.51	ug/L			04/07/15 07:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/15 07:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/15 07:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			04/07/15 07:02	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/15 07:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/15 07:02	1
Vinyl acetate	ND		5.0	0.85	ug/L			04/07/15 07:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/15 07:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/15 07:02	1
m&p-Xylene	ND		2.0	0.66	ug/L			04/07/15 07:02	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/15 07:02	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-3

Lab Sample ID: 480-77695-3

Date Collected: 04/02/15 12:50

Downgradient Groundwater

Matrix: Water

Date Received: 04/03/15 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/07/15 07:02	1
Toluene-d8 (Surr)	100		71 - 126		04/07/15 07:02	1
4-Bromofluorobenzene (Surr)	94		73 - 120		04/07/15 07:02	1
Dibromofluoromethane (Surr)	108		60 - 140		04/07/15 07:02	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		04/08/15 09:05	04/08/15 21:35	1
Antimony	ND		0.020	0.0068	mg/L		04/08/15 09:05	04/08/15 21:35	1
Arsenic	ND		0.010	0.0056	mg/L		04/08/15 09:05	04/08/15 21:35	1
Barium	0.036		0.0020	0.00070	mg/L		04/08/15 09:05	04/08/15 21:35	1
Beryllium	ND		0.0020	0.00030	mg/L		04/08/15 09:05	04/08/15 21:35	1
Boron	0.025		0.020	0.0040	mg/L		04/08/15 09:05	04/08/15 21:35	1
Cadmium	ND		0.0010	0.00050	mg/L		04/08/15 09:05	04/08/15 21:35	1
Calcium	34.3		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:35	1
Chromium	ND		0.0040	0.0010	mg/L		04/08/15 09:05	04/08/15 21:35	1
Cobalt	ND		0.0040	0.00063	mg/L		04/08/15 09:05	04/08/15 21:35	1
Copper	ND		0.010	0.0016	mg/L		04/08/15 09:05	04/08/15 21:35	1
Iron	0.35		0.050	0.019	mg/L		04/08/15 09:05	04/08/15 21:35	1
Lead	ND		0.0050	0.0030	mg/L		04/08/15 09:05	04/08/15 21:35	1
Magnesium	5.6		0.20	0.043	mg/L		04/08/15 09:05	04/08/15 21:35	1
Manganese	1.2		0.0030	0.00040	mg/L		04/08/15 09:05	04/08/15 21:35	1
Nickel	ND		0.010	0.0013	mg/L		04/08/15 09:05	04/08/15 21:35	1
Potassium	3.6		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:35	1
Selenium	ND		0.015	0.0087	mg/L		04/08/15 09:05	04/08/15 21:35	1
Silver	ND		0.0030	0.0017	mg/L		04/08/15 09:05	04/08/15 21:35	1
Sodium	2.8		1.0	0.32	mg/L		04/08/15 09:05	04/08/15 21:35	1
Thallium	ND		0.020	0.010	mg/L		04/08/15 09:05	04/08/15 21:35	1
Vanadium	ND		0.0050	0.0015	mg/L		04/08/15 09:05	04/08/15 21:35	1
Zinc	0.0034	J B	0.010	0.0015	mg/L		04/08/15 09:05	04/08/15 21:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/07/15 09:05	04/07/15 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			04/10/15 23:15	5
Cyanide, Total	ND		0.010	0.0050	mg/L		04/06/15 14:12	04/07/15 12:57	1
Ammonia	ND		0.020	0.0090	mg/L			04/07/15 15:42	1
Total Kjeldahl Nitrogen	0.25	B	0.20	0.15	mg/L		04/13/15 03:22	04/14/15 11:54	1
Nitrate as N	ND		0.050	0.020	mg/L as N			04/03/15 18:05	1
Chemical Oxygen Demand	7.2	J	10.0	5.0	mg/L			04/08/15 14:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		04/15/15 12:26	04/16/15 01:21	1
Total Organic Carbon	2.4	B	1.0	0.43	mg/L			04/09/15 17:39	1
Sulfate	ND		5.0	1.5	mg/L			04/13/15 20:02	1
Alkalinity	116		5.0	0.79	mg/L			04/13/15 09:00	1
Hardness, as CaCO3	120		4.0	1.1	mg/L			04/13/15 12:00	1
Total Dissolved Solids	110		10.0	4.0	mg/L			04/08/15 05:02	1
Chloride	2.4		1.0	0.46	mg/L			04/13/15 18:04	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			04/03/15 17:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-3
Date Collected: 04/02/15 12:50
Date Received: 04/03/15 10:00

Downgradient Groundwater

Lab Sample ID: 480-77695-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	15.0		5.00	5.00	Color Units			04/04/15 10:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-4

Date Collected: 04/02/15 13:00

Date Received: 04/03/15 10:00

Downstream Surface Water

Lab Sample ID: 480-77695-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.35	ug/L			04/07/15 07:25	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/15 07:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/15 07:25	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/15 07:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/15 07:25	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/15 07:25	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			04/07/15 07:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/15 07:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/15 07:25	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/15 07:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/15 07:25	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/15 07:25	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/15 07:25	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/15 07:25	1
Methyl Ethyl Ketone	ND		10	1.3	ug/L			04/07/15 07:25	1
methyl isobutyl ketone	ND		5.0	2.1	ug/L			04/07/15 07:25	1
Acetone	ND		10	3.0	ug/L			04/07/15 07:25	1
Acrylonitrile	ND		5.0	0.83	ug/L			04/07/15 07:25	1
Benzene	ND		1.0	0.41	ug/L			04/07/15 07:25	1
Bromochloromethane	ND		1.0	0.87	ug/L			04/07/15 07:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/15 07:25	1
Bromoform	ND		1.0	0.26	ug/L			04/07/15 07:25	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/15 07:25	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/15 07:25	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/15 07:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/15 07:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/15 07:25	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/15 07:25	1
Chloroform	ND		1.0	0.34	ug/L			04/07/15 07:25	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/15 07:25	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/15 07:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/15 07:25	1
Dibromomethane	ND		1.0	0.41	ug/L			04/07/15 07:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/15 07:25	1
Iodomethane	ND		1.0	0.30	ug/L			04/07/15 07:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/15 07:25	1
Styrene	ND		1.0	0.73	ug/L			04/07/15 07:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/15 07:25	1
Toluene	ND		1.0	0.51	ug/L			04/07/15 07:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/15 07:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/15 07:25	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			04/07/15 07:25	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/15 07:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/15 07:25	1
Vinyl acetate	ND		5.0	0.85	ug/L			04/07/15 07:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/15 07:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/15 07:25	1
m&p-Xylene	ND		2.0	0.66	ug/L			04/07/15 07:25	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/15 07:25	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-4

Lab Sample ID: 480-77695-4

Date Collected: 04/02/15 13:00

Downstream Surface Water

Matrix: Water

Date Received: 04/03/15 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		04/07/15 07:25	1
Toluene-d8 (Surr)	103		71 - 126		04/07/15 07:25	1
4-Bromofluorobenzene (Surr)	94		73 - 120		04/07/15 07:25	1
Dibromofluoromethane (Surr)	103		60 - 140		04/07/15 07:25	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.077	J	0.20	0.060	mg/L		04/08/15 09:05	04/08/15 21:38	1
Antimony	ND		0.020	0.0068	mg/L		04/08/15 09:05	04/08/15 21:38	1
Arsenic	ND		0.010	0.0056	mg/L		04/08/15 09:05	04/08/15 21:38	1
Barium	0.037		0.0020	0.00070	mg/L		04/08/15 09:05	04/08/15 21:38	1
Beryllium	ND		0.0020	0.00030	mg/L		04/08/15 09:05	04/08/15 21:38	1
Boron	0.024		0.020	0.0040	mg/L		04/08/15 09:05	04/08/15 21:38	1
Cadmium	ND		0.0010	0.00050	mg/L		04/08/15 09:05	04/08/15 21:38	1
Calcium	31.6		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:38	1
Chromium	ND		0.0040	0.0010	mg/L		04/08/15 09:05	04/08/15 21:38	1
Cobalt	ND		0.0040	0.00063	mg/L		04/08/15 09:05	04/08/15 21:38	1
Copper	ND		0.010	0.0016	mg/L		04/08/15 09:05	04/08/15 21:38	1
Iron	2.5		0.050	0.019	mg/L		04/08/15 09:05	04/08/15 21:38	1
Lead	ND		0.0050	0.0030	mg/L		04/08/15 09:05	04/08/15 21:38	1
Magnesium	10.1		0.20	0.043	mg/L		04/08/15 09:05	04/08/15 21:38	1
Manganese	0.26		0.0030	0.00040	mg/L		04/08/15 09:05	04/08/15 21:38	1
Nickel	ND		0.010	0.0013	mg/L		04/08/15 09:05	04/08/15 21:38	1
Potassium	3.6		0.50	0.10	mg/L		04/08/15 09:05	04/08/15 21:38	1
Selenium	ND		0.015	0.0087	mg/L		04/08/15 09:05	04/08/15 21:38	1
Silver	ND		0.0030	0.0017	mg/L		04/08/15 09:05	04/08/15 21:38	1
Sodium	6.1		1.0	0.32	mg/L		04/08/15 09:05	04/08/15 21:38	1
Thallium	ND		0.020	0.010	mg/L		04/08/15 09:05	04/08/15 21:38	1
Vanadium	ND		0.0050	0.0015	mg/L		04/08/15 09:05	04/08/15 21:38	1
Zinc	0.0037	J B	0.010	0.0015	mg/L		04/08/15 09:05	04/08/15 21:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/07/15 09:05	04/07/15 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			04/10/15 23:25	5
Cyanide, Total	ND		0.010	0.0050	mg/L		04/06/15 14:12	04/07/15 12:58	1
Ammonia	ND		0.020	0.0090	mg/L			04/07/15 15:43	1
Total Kjeldahl Nitrogen	0.26	B	0.20	0.15	mg/L		04/13/15 03:22	04/14/15 11:54	1
Nitrate as N	0.022	J	0.050	0.020	mg/L as N			04/03/15 18:06	1
Chemical Oxygen Demand	8.8	J	10.0	5.0	mg/L			04/08/15 14:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		04/15/15 12:26	04/16/15 01:21	1
Total Organic Carbon	2.5	B	1.0	0.43	mg/L			04/09/15 18:07	1
Sulfate	ND		5.0	1.5	mg/L			04/13/15 19:52	1
Alkalinity	112		5.0	0.79	mg/L			04/13/15 09:00	1
Hardness, as CaCO3	124		4.0	1.1	mg/L			04/13/15 12:00	1
Total Dissolved Solids	67.0		10.0	4.0	mg/L			04/08/15 05:02	1
Chloride	6.5	B	1.0	0.46	mg/L			04/13/15 18:12	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			04/03/15 17:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-4
Date Collected: 04/02/15 13:00
Date Received: 04/03/15 10:00

Downstream Surface Water

Lab Sample ID: 480-77695-4
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	10.0		5.00	5.00	Color Units			04/04/15 10:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-5

Date Collected: 04/02/15 13:30

Date Received: 04/03/15 10:00

Downstream Sediment

Lab Sample ID: 480-77695-5

Matrix: Solid

Percent Solids: 20.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
bis (2-chloroisopropyl) ether	ND		8400	1700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4,5-Trichlorophenol	ND		8400	2300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4,6-Trichlorophenol	ND		8400	1700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4-Dichlorophenol	ND		8400	890	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4-Dimethylphenol	ND		8400	2000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4-Dinitrophenol	ND		82000	39000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,4-Dinitrotoluene	ND		8400	1700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2,6-Dinitrotoluene	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Chloronaphthalene	ND		8400	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Chlorophenol	ND		8400	1500	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Methylphenol	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Methylnaphthalene	ND		8400	1700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Nitroaniline	ND		16000	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
2-Nitrophenol	ND		8400	2400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
3,3'-Dichlorobenzidine	ND		16000	9900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
3-Nitroaniline	ND		16000	2300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4,6-Dinitro-2-methylphenol	ND		16000	8400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Bromophenyl phenyl ether	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Chloro-3-methylphenol	ND		8400	2100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Chloroaniline	ND *		8400	2100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Chlorophenyl phenyl ether	ND		8400	1000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Methylphenol	ND		16000	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Nitroaniline	ND		16000	4400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
4-Nitrophenol	ND		16000	5900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Acenaphthene	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Acenaphthylene	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Acetophenone	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Anthracene	ND		8400	2100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Atrazine	ND		8400	2900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzaldehyde	ND		8400	6700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzo[a]anthracene	ND		8400	840	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzo[a]pyrene	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzo[b]fluoranthene	ND		8400	1300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzo[g,h,i]perylene	ND		8400	890	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Benzo[k]fluoranthene	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Bis(2-chloroethoxy)methane	ND		8400	1800	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Bis(2-chloroethyl)ether	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Bis(2-ethylhexyl) phthalate	ND		8400	2900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Butyl benzyl phthalate	ND		8400	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Caprolactam	ND		8400	2500	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Carbazole	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Chrysene	ND		8400	1900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Dibenz(a,h)anthracene	ND		8400	1500	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Di-n-butyl phthalate	ND		8400	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Di-n-octyl phthalate	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Dibenzofuran	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Diethyl phthalate	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Dimethyl phthalate	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-5

Lab Sample ID: 480-77695-5

Date Collected: 04/02/15 13:30

Downstream Sediment

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 20.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		8400	890	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Fluorene	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Hexachlorobenzene	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Hexachlorobutadiene	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Hexachlorocyclopentadiene	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Hexachloroethane	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Indeno[1,2,3-cd]pyrene	ND		8400	1000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Isophorone	ND		8400	1800	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
N-Nitrosodi-n-propylamine	ND		8400	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
N-Nitrosodiphenylamine	ND		8400	6800	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Naphthalene	ND		8400	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Nitrobenzene	ND		8400	940	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Pentachlorophenol	ND		16000	8400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Phenanthrene	ND		8400	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Phenol	ND		8400	1300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10
Pyrene	ND		8400	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:09	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		34 - 132	04/03/15 14:19	04/06/15 13:09	10
Phenol-d5 (Surr)	81		11 - 120	04/03/15 14:19	04/06/15 13:09	10
p-Terphenyl-d14 (Surr)	96		65 - 153	04/03/15 14:19	04/06/15 13:09	10
2,4,6-Tribromophenol (Surr)	72		39 - 146	04/03/15 14:19	04/06/15 13:09	10
2-Fluorobiphenyl	84		37 - 120	04/03/15 14:19	04/06/15 13:09	10
2-Fluorophenol (Surr)	73		18 - 120	04/03/15 14:19	04/06/15 13:09	10

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		82	16	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
4,4'-DDE	38	J	82	17	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
4,4'-DDT	40	J	82	19	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Aldrin	ND		82	20	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
alpha-BHC	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
alpha-Chlordane	ND		82	41	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
beta-BHC	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
delta-BHC	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Dieldrin	ND		82	20	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endosulfan I	ND		82	16	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endosulfan II	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endosulfan sulfate	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endrin	ND		82	16	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endrin aldehyde	ND		82	21	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Endrin ketone	ND		82	20	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
gamma-BHC (Lindane)	ND		82	15	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
gamma-Chlordane	ND		82	26	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Heptachlor	ND		82	18	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Heptachlor epoxide	ND		82	21	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Methoxychlor	ND		82	17	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10
Toxaphene	ND		820	470	ug/Kg	☼	04/07/15 10:46	04/15/15 09:28	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-5

Downstream Sediment

Lab Sample ID: 480-77695-5

Date Collected: 04/02/15 13:30

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 20.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		32 - 136	04/07/15 10:46	04/15/15 09:28	10
Tetrachloro-m-xylene	92		30 - 124	04/07/15 10:46	04/15/15 09:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.2	0.23	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1221	ND		1.2	0.23	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1232	ND		1.2	0.23	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1242	ND		1.2	0.23	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1248	ND		1.2	0.23	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1254	ND		1.2	0.55	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1
PCB-1260	ND		1.2	0.55	mg/Kg	☼	04/06/15 11:29	04/07/15 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		46 - 175	04/06/15 11:29	04/07/15 11:48	1
DCB Decachlorobiphenyl	100		47 - 176	04/06/15 11:29	04/07/15 11:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32900		48.2	21.2	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Antimony	ND		72.3	1.9	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Arsenic	8.1	J	9.6	1.9	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Barium	224		2.4	0.53	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Beryllium	1.4		0.96	0.13	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Cadmium	0.61	J	0.96	0.14	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Calcium	7530	B	241	15.9	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Chromium	57.5		2.4	0.96	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Cobalt	18.9		2.4	0.24	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Copper	54.9		4.8	1.0	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Iron	48500	B	48.2	5.3	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Lead	42.6		4.8	1.2	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Magnesium	10600		96.4	4.5	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Manganese	633	B	0.96	0.15	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Nickel	40.0		24.1	1.1	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Potassium	6350		145	96.4	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Selenium	ND		19.3	1.9	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Silver	ND		2.9	0.96	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Sodium	279	J	675	62.6	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Thallium	ND		28.9	1.4	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Vanadium	88.5		2.4	0.53	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1
Zinc	147	B	9.6	0.74	mg/Kg	☼	04/07/15 15:50	04/08/15 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061	J	0.095	0.038	mg/Kg	☼	04/06/15 11:40	04/06/15 13:51	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-6

Upstream Sediment

Lab Sample ID: 480-77695-6

Date Collected: 04/02/15 14:30

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 40.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4100	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
bis (2-chloroisopropyl) ether	ND		4100	820	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4,5-Trichlorophenol	ND		4100	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4,6-Trichlorophenol	ND		4100	820	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4-Dichlorophenol	ND		4100	430	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4-Dimethylphenol	ND		4100	990	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4-Dinitrophenol	ND		40000	19000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,4-Dinitrotoluene	ND		4100	840	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2,6-Dinitrotoluene	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Chloronaphthalene	ND		4100	680	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Chlorophenol	ND		4100	750	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Methylphenol	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Methylnaphthalene	ND		4100	820	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Nitroaniline	ND		8000	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
2-Nitrophenol	ND		4100	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
3,3'-Dichlorobenzidine	ND		8000	4800	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
3-Nitroaniline	ND		8000	1100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4,6-Dinitro-2-methylphenol	ND		8000	4100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Bromophenyl phenyl ether	ND		4100	580	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Chloro-3-methylphenol	ND		4100	1000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Chloroaniline	ND *		4100	1000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Chlorophenyl phenyl ether	ND		4100	510	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Methylphenol	ND		8000	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Nitroaniline	ND		8000	2100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
4-Nitrophenol	ND		8000	2900	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Acenaphthene	ND		4100	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Acenaphthylene	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Acetophenone	ND		4100	550	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Anthracene	ND		4100	1000	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Atrazine	ND		4100	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzaldehyde	ND		4100	3300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzo[a]anthracene	ND		4100	410	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzo[a]pyrene	ND		4100	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzo[b]fluoranthene	ND		4100	650	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzo[g,h,i]perylene	ND		4100	430	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Benzo[k]fluoranthene	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Bis(2-chloroethoxy)methane	ND		4100	870	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Bis(2-chloroethyl)ether	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Bis(2-ethylhexyl) phthalate	ND		4100	1400	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Butyl benzyl phthalate	ND		4100	680	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Caprolactam	ND		4100	1200	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Carbazole	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Chrysene	ND		4100	920	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Dibenz(a,h)anthracene	ND		4100	720	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Di-n-butyl phthalate	ND		4100	700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Di-n-octyl phthalate	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Dibenzofuran	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Diethyl phthalate	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Dimethyl phthalate	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-6

Lab Sample ID: 480-77695-6

Date Collected: 04/02/15 14:30

Upstream Sediment

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 40.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		4100	430	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Fluorene	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Hexachlorobenzene	ND		4100	550	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Hexachlorobutadiene	ND		4100	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Hexachlorocyclopentadiene	ND		4100	550	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Hexachloroethane	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Indeno[1,2,3-cd]pyrene	ND		4100	510	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Isophorone	ND		4100	870	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
N-Nitrosodi-n-propylamine	ND		4100	700	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
N-Nitrosodiphenylamine	ND		4100	3300	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Naphthalene	ND		4100	530	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Nitrobenzene	ND		4100	460	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Pentachlorophenol	ND		8000	4100	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Phenanthrene	ND		4100	600	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Phenol	ND		4100	630	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10
Pyrene	ND		4100	480	ug/Kg	☼	04/03/15 14:19	04/06/15 13:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		34 - 132	04/03/15 14:19	04/06/15 13:33	10
Phenol-d5 (Surr)	67		11 - 120	04/03/15 14:19	04/06/15 13:33	10
p-Terphenyl-d14 (Surr)	84		65 - 153	04/03/15 14:19	04/06/15 13:33	10
2,4,6-Tribromophenol (Surr)	68		39 - 146	04/03/15 14:19	04/06/15 13:33	10
2-Fluorobiphenyl	62		37 - 120	04/03/15 14:19	04/06/15 13:33	10
2-Fluorophenol (Surr)	64		18 - 120	04/03/15 14:19	04/06/15 13:33	10

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		41	7.9	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
4,4'-DDE	18	J	41	8.6	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
4,4'-DDT	ND		41	9.5	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Aldrin	ND		41	10	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
alpha-BHC	ND		41	7.3	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
alpha-Chlordane	ND		41	20	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
beta-BHC	ND		41	7.3	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
delta-BHC	ND		41	7.6	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Dieldrin	ND		41	9.8	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endosulfan I	ND		41	7.8	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endosulfan II	ND		41	7.3	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endosulfan sulfate	ND		41	7.6	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endrin	ND		41	8.1	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endrin aldehyde	ND		41	10	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Endrin ketone	ND		41	10	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
gamma-BHC (Lindane)	ND		41	7.5	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
gamma-Chlordane	ND		41	13	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Heptachlor	ND		41	8.8	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Heptachlor epoxide	ND		41	11	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Methoxychlor	ND		41	8.3	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10
Toxaphene	ND		410	240	ug/Kg	☼	04/07/15 10:46	04/15/15 09:46	10

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-6

Lab Sample ID: 480-77695-6

Date Collected: 04/02/15 14:30

Upstream Sediment

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 40.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	139	X	32 - 136	04/07/15 10:46	04/15/15 09:46	10
Tetrachloro-m-xylene	112		30 - 124	04/07/15 10:46	04/15/15 09:46	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.46	0.089	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1221	ND		0.46	0.089	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1232	ND		0.46	0.089	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1242	ND		0.46	0.089	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1248	ND		0.46	0.089	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1254	ND		0.46	0.21	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1
PCB-1260	ND		0.46	0.21	mg/Kg	☼	04/06/15 11:29	04/07/15 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		46 - 175	04/06/15 11:29	04/07/15 12:08	1
DCB Decachlorobiphenyl	95		47 - 176	04/06/15 11:29	04/07/15 12:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3760		23.2	10.2	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Antimony	ND		34.7	0.93	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Arsenic	2.5	J	4.6	0.93	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Barium	106		1.2	0.25	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Beryllium	0.18	J	0.46	0.065	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Cadmium	0.16	J	0.46	0.069	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Calcium	4540	B	116	7.6	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Chromium	7.4		1.2	0.46	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Cobalt	3.2		1.2	0.12	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Copper	10.0		2.3	0.49	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Iron	35700	B	23.2	2.5	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Lead	6.9		2.3	0.56	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Magnesium	1710		46.3	2.1	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Manganese	1510	B	0.46	0.074	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Nickel	6.7	J	11.6	0.53	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Potassium	1310		69.5	46.3	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Selenium	ND		9.3	0.93	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Silver	ND		1.4	0.46	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Sodium	106	J	324	30.1	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Thallium	ND		13.9	0.69	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Vanadium	14.6		1.2	0.25	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1
Zinc	34.0	B	4.6	0.35	mg/Kg	☼	04/07/15 15:50	04/08/15 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.048	0.020	mg/Kg	☼	04/06/15 11:40	04/06/15 13:50	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-7

Downstream Iron Floc

Lab Sample ID: 480-77695-7

Date Collected: 04/02/15 11:45

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 10.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1400		96.6	42.5	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Silicon	19000	B	478	7.9	mg/Kg	☼	04/10/15 08:52	04/13/15 12:48	1
Antimony	ND		145	3.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Arsenic	78.4		19.3	3.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Barium	1040		4.8	1.1	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Beryllium	0.33	J	1.9	0.27	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Cadmium	ND		1.9	0.29	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Calcium	19600	B	483	31.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Chromium	ND		4.8	1.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Cobalt	37.8		4.8	0.48	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Copper	3.1	J	9.7	2.0	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Iron	568000	B	96.6	10.6	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Lead	5.4	J	9.7	2.3	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Magnesium	1880		193	9.0	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Manganese	34700	B	1.9	0.31	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Nickel	18.6	J	48.3	2.2	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Potassium	666		290	193	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Selenium	ND		38.6	3.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Silver	5.9		5.8	1.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Sodium	158	J	1350	126	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Thallium	ND		58.0	2.9	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Vanadium	23.1		4.8	1.1	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1
Zinc	24.8	B	19.3	1.5	mg/Kg	☼	04/08/15 16:17	04/09/15 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.19	0.078	mg/Kg	☼	04/08/15 11:45	04/08/15 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	75400	B	1000	120	mg/Kg			04/09/15 22:12	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-77695-8

Date Collected: 04/02/15 00:00

Matrix: Water

Date Received: 04/03/15 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.35	ug/L			04/07/15 01:20	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/15 01:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/15 01:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/15 01:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/15 01:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/15 01:20	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			04/07/15 01:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/15 01:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/15 01:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/15 01:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/15 01:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/15 01:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/15 01:20	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/15 01:20	1
Methyl Ethyl Ketone	ND		10	1.3	ug/L			04/07/15 01:20	1
methyl isobutyl ketone	ND		5.0	2.1	ug/L			04/07/15 01:20	1
Acetone	ND		10	3.0	ug/L			04/07/15 01:20	1
Acrylonitrile	ND		5.0	0.83	ug/L			04/07/15 01:20	1
Benzene	ND		1.0	0.41	ug/L			04/07/15 01:20	1
Bromochloromethane	ND		1.0	0.87	ug/L			04/07/15 01:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/15 01:20	1
Bromoform	ND		1.0	0.26	ug/L			04/07/15 01:20	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/15 01:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/15 01:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/15 01:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/15 01:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/15 01:20	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/15 01:20	1
Chloroform	ND		1.0	0.34	ug/L			04/07/15 01:20	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/15 01:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/15 01:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/15 01:20	1
Dibromomethane	ND		1.0	0.41	ug/L			04/07/15 01:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/15 01:20	1
Iodomethane	ND		1.0	0.30	ug/L			04/07/15 01:20	1
Methylene Chloride	0.90	J	1.0	0.44	ug/L			04/07/15 01:20	1
Styrene	ND		1.0	0.73	ug/L			04/07/15 01:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/15 01:20	1
Toluene	ND		1.0	0.51	ug/L			04/07/15 01:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/15 01:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/15 01:20	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.22	ug/L			04/07/15 01:20	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/15 01:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/15 01:20	1
Vinyl acetate	ND		5.0	0.85	ug/L			04/07/15 01:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/15 01:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/15 01:20	1
m&p-Xylene	ND		2.0	0.66	ug/L			04/07/15 01:20	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/15 01:20	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-77695-8

Date Collected: 04/02/15 00:00

Matrix: Water

Date Received: 04/03/15 10:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/07/15 01:20	1
Toluene-d8 (Surr)	101		71 - 126		04/07/15 01:20	1
4-Bromofluorobenzene (Surr)	96		73 - 120		04/07/15 01:20	1
Dibromofluoromethane (Surr)	104		60 - 140		04/07/15 01:20	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-1

Lab Sample ID: 480-77695-1

Date Collected: 04/02/15 11:00

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	234438	04/07/15 06:16	LJF	TAL BUF
Total/NA	Prep	3005A			235555	04/11/15 08:00	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235875	04/13/15 13:12	AMH	TAL BUF
Total/NA	Prep	7470A			234358	04/07/15 09:05	LRK	TAL BUF
Total/NA	Analysis	7470A		1	234663	04/07/15 14:54	LRK	TAL BUF
Total/NA	Analysis	300.0		10	235231	04/10/15 22:57	CAS	TAL BUF
Total/NA	Prep	Distill/CN			234387	04/06/15 14:12	EKB	TAL BUF
Total/NA	Analysis	335.4		1	234603	04/07/15 12:53	NCH	TAL BUF
Total/NA	Analysis	350.1		1	234667	04/07/15 15:38	KMF	TAL BUF
Total/NA	Prep	351.2			235716	04/13/15 03:22	LAW	TAL BUF
Total/NA	Analysis	351.2		1	236101	04/14/15 11:54	EKB	TAL BUF
Total/NA	Analysis	353.2		1	234119	04/03/15 21:52	CLT	TAL BUF
Total/NA	Analysis	410.4		1	234966	04/08/15 14:02	DLG	TAL BUF
Total/NA	Prep	Distill/Phenol			236352	04/15/15 12:26	RP	TAL BUF
Total/NA	Analysis	420.4		1	236463	04/16/15 01:21	ELR	TAL BUF
Total/NA	Analysis	9060A		1	234914	04/08/15 13:00	NDB	TAL BUF
Total/NA	Analysis	D516-90, 02		2	235940	04/13/15 20:32	MRF	TAL BUF
Total/NA	Analysis	SM 2120B		1	234207	04/04/15 10:50	KC	TAL BUF
Total/NA	Analysis	SM 2320B		1	235889	04/13/15 09:00	LED	TAL BUF
Total/NA	Analysis	SM 2340C		1	234958	04/08/15 14:43	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	234718	04/08/15 05:02	ELR	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	235929	04/13/15 18:04	MRF	TAL BUF
Total/NA	Analysis	SM 5210B		1	234122	04/03/15 17:26	CLT	TAL BUF

Client Sample ID: MM3-040215-WCA-2

Lab Sample ID: 480-77695-2

Date Collected: 04/02/15 14:00

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	234438	04/07/15 06:39	LJF	TAL BUF
Total/NA	Prep	3005A			234731	04/08/15 09:05	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	235007	04/08/15 21:32	TRB	TAL BUF
Total/NA	Prep	3005A			234731	04/08/15 09:05	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	235327	04/09/15 11:14	TRB	TAL BUF
Total/NA	Prep	7470A			234358	04/07/15 09:05	LRK	TAL BUF
Total/NA	Analysis	7470A		1	234663	04/07/15 14:59	LRK	TAL BUF
Total/NA	Analysis	300.0		5	235231	04/10/15 23:06	CAS	TAL BUF
Total/NA	Prep	Distill/CN			234387	04/06/15 14:12	EKB	TAL BUF
Total/NA	Analysis	335.4		1	234603	04/07/15 12:55	NCH	TAL BUF
Total/NA	Analysis	350.1		1	234667	04/07/15 15:39	KMF	TAL BUF
Total/NA	Prep	351.2			235716	04/13/15 03:22	LAW	TAL BUF
Total/NA	Analysis	351.2		1	236101	04/14/15 11:54	EKB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-2

Lab Sample ID: 480-77695-2

Date Collected: 04/02/15 14:00

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	234119	04/03/15 18:04	CLT	TAL BUF
Total/NA	Analysis	410.4		1	234966	04/08/15 14:02	DLG	TAL BUF
Total/NA	Prep	Distill/Phenol			236352	04/15/15 12:26	RP	TAL BUF
Total/NA	Analysis	420.4		1	236463	04/16/15 01:21	ELR	TAL BUF
Total/NA	Analysis	9060A		1	234914	04/08/15 13:55	NDB	TAL BUF
Total/NA	Analysis	D516-90, 02		1	235940	04/13/15 20:02	MRF	TAL BUF
Total/NA	Analysis	SM 2120B		1	234207	04/04/15 10:50	KC	TAL BUF
Total/NA	Analysis	SM 2320B		1	235889	04/13/15 09:00	LED	TAL BUF
Total/NA	Analysis	SM 2340C		1	234958	04/08/15 14:43	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	234718	04/08/15 05:02	ELR	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	235929	04/13/15 18:12	MRF	TAL BUF
Total/NA	Analysis	SM 5210B		1	234122	04/03/15 17:26	CLT	TAL BUF

Client Sample ID: MM3-040215-WCA-3

Lab Sample ID: 480-77695-3

Date Collected: 04/02/15 12:50

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	234438	04/07/15 07:02	LJF	TAL BUF
Total/NA	Prep	3005A			234731	04/08/15 09:05	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	235007	04/08/15 21:35	TRB	TAL BUF
Total/NA	Prep	7470A			234358	04/07/15 09:05	LRK	TAL BUF
Total/NA	Analysis	7470A		1	234663	04/07/15 15:01	LRK	TAL BUF
Total/NA	Analysis	300.0		5	235231	04/10/15 23:15	CAS	TAL BUF
Total/NA	Prep	Distill/CN			234387	04/06/15 14:12	EKB	TAL BUF
Total/NA	Analysis	335.4		1	234603	04/07/15 12:57	NCH	TAL BUF
Total/NA	Analysis	350.1		1	234667	04/07/15 15:42	KMF	TAL BUF
Total/NA	Prep	351.2			235716	04/13/15 03:22	LAW	TAL BUF
Total/NA	Analysis	351.2		1	236101	04/14/15 11:54	EKB	TAL BUF
Total/NA	Analysis	353.2		1	234119	04/03/15 18:05	CLT	TAL BUF
Total/NA	Analysis	410.4		1	234966	04/08/15 14:02	DLG	TAL BUF
Total/NA	Prep	Distill/Phenol			236352	04/15/15 12:26	RP	TAL BUF
Total/NA	Analysis	420.4		1	236463	04/16/15 01:21	ELR	TAL BUF
Total/NA	Analysis	9060A		1	235459	04/09/15 17:39	NCH	TAL BUF
Total/NA	Analysis	D516-90, 02		1	235940	04/13/15 20:02	MRF	TAL BUF
Total/NA	Analysis	SM 2120B		1	234207	04/04/15 10:50	KC	TAL BUF
Total/NA	Analysis	SM 2320B		1	235889	04/13/15 09:00	LED	TAL BUF
Total/NA	Analysis	SM 2340C		1	235925	04/13/15 12:00	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	234718	04/08/15 05:02	ELR	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	235929	04/13/15 18:04	MRF	TAL BUF
Total/NA	Analysis	SM 5210B		1	234122	04/03/15 17:26	CLT	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-4

Lab Sample ID: 480-77695-4

Date Collected: 04/02/15 13:00

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	234438	04/07/15 07:25	LJF	TAL BUF
Total/NA	Prep	3005A			234731	04/08/15 09:05	KJ1	TAL BUF
Total/NA	Analysis	6010C		1	235007	04/08/15 21:38	TRB	TAL BUF
Total/NA	Prep	7470A			234358	04/07/15 09:05	LRK	TAL BUF
Total/NA	Analysis	7470A		1	234663	04/07/15 15:03	LRK	TAL BUF
Total/NA	Analysis	300.0		5	235231	04/10/15 23:25	CAS	TAL BUF
Total/NA	Prep	Distill/CN			234387	04/06/15 14:12	EKB	TAL BUF
Total/NA	Analysis	335.4		1	234603	04/07/15 12:58	NCH	TAL BUF
Total/NA	Analysis	350.1		1	234667	04/07/15 15:43	KMF	TAL BUF
Total/NA	Prep	351.2			235716	04/13/15 03:22	LAW	TAL BUF
Total/NA	Analysis	351.2		1	236101	04/14/15 11:54	EKB	TAL BUF
Total/NA	Analysis	353.2		1	234119	04/03/15 18:06	CLT	TAL BUF
Total/NA	Analysis	410.4		1	234966	04/08/15 14:02	DLG	TAL BUF
Total/NA	Prep	Distill/Phenol			236352	04/15/15 12:26	RP	TAL BUF
Total/NA	Analysis	420.4		1	236463	04/16/15 01:21	ELR	TAL BUF
Total/NA	Analysis	9060A		1	235459	04/09/15 18:07	NCH	TAL BUF
Total/NA	Analysis	D516-90, 02		1	235940	04/13/15 19:52	MRF	TAL BUF
Total/NA	Analysis	SM 2120B		1	234207	04/04/15 10:50	KC	TAL BUF
Total/NA	Analysis	SM 2320B		1	235889	04/13/15 09:00	LED	TAL BUF
Total/NA	Analysis	SM 2340C		1	235925	04/13/15 12:00	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	234718	04/08/15 05:02	ELR	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	235929	04/13/15 18:12	MRF	TAL BUF
Total/NA	Analysis	SM 5210B		1	234122	04/03/15 17:26	CLT	TAL BUF

Client Sample ID: MM3-040215-WCA-5

Lab Sample ID: 480-77695-5

Date Collected: 04/02/15 13:30

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 20.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C	DL		234046	04/03/15 14:19	CPH	TAL BUF
Total/NA	Analysis	8270D	DL	10	234246	04/06/15 13:09	LMW	TAL BUF
Total/NA	Prep	3550C			234551	04/07/15 10:46	RJS	TAL BUF
Total/NA	Analysis	8081B		10	236211	04/15/15 09:28	MAN	TAL BUF
Total/NA	Prep	3550C			234316	04/06/15 11:29	MRB	TAL BUF
Total/NA	Analysis	8082A		1	234492	04/07/15 11:48	KS	TAL BUF
Total/NA	Prep	3050B			234601	04/07/15 15:50	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235005	04/08/15 17:16	TRB	TAL BUF
Total/NA	Prep	7471B			234299	04/06/15 11:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	234383	04/06/15 13:51	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	234201	04/04/15 16:28	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Client Sample ID: MM3-040215-WCA-6

Lab Sample ID: 480-77695-6

Date Collected: 04/02/15 14:30

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 40.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C	DL		234046	04/03/15 14:19	CPH	TAL BUF
Total/NA	Analysis	8270D	DL	10	234246	04/06/15 13:33	LMW	TAL BUF
Total/NA	Prep	3550C			234551	04/07/15 10:46	RJS	TAL BUF
Total/NA	Analysis	8081B		10	236211	04/15/15 09:46	MAN	TAL BUF
Total/NA	Prep	3550C			234316	04/06/15 11:29	MRB	TAL BUF
Total/NA	Analysis	8082A		1	234492	04/07/15 12:08	KS	TAL BUF
Total/NA	Prep	3050B			234601	04/07/15 15:50	TAS	TAL BUF
Total/NA	Analysis	6010C		1	235005	04/08/15 17:18	TRB	TAL BUF
Total/NA	Prep	7471B			234299	04/06/15 11:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	234383	04/06/15 13:50	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	234201	04/04/15 16:28	CMK	TAL BUF

Client Sample ID: MM3-040215-WCA-7

Lab Sample ID: 480-77695-7

Date Collected: 04/02/15 11:45

Matrix: Solid

Date Received: 04/03/15 10:00

Percent Solids: 10.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			138126	04/10/15 08:52	AB1	TAL PIT
Total/NA	Analysis	6010C		1	138371	04/13/15 12:48	RJG	TAL PIT
Total/NA	Prep	3050B			234893	04/08/15 16:17	LRK	TAL BUF
Total/NA	Analysis	6010C		1	235328	04/09/15 15:40	AMH	TAL BUF
Total/NA	Prep	7471B			234811	04/08/15 11:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	234898	04/08/15 14:47	LRK	TAL BUF
Total/NA	Analysis	Lloyd Kahn		1	86734	04/09/15 22:12	MDK	TAL BUR
Total/NA	Analysis	Moisture		1	235276	04/09/15 22:32	CMK	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-77695-8

Date Collected: 04/02/15 00:00

Matrix: Water

Date Received: 04/03/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	234438	04/07/15 01:20	LJF	TAL BUF

Laboratory References:

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

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: New York State D.E.C.
 Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

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

Analysis Method	Prep Method	Matrix	Analyte
420.4	Distill/Phenol	Water	Phenolics, Total Recoverable

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	03-31-16

Analysis Method	Prep Method	Matrix	Analyte
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Laboratory: TestAmerica Pittsburgh

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	88-0690	06-27-15
California	State Program	9	2891	03-31-16
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	04-30-15 *
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-16
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-16
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-15 *
South Carolina	State Program	4	89014	04-30-15 *
Texas	NELAP	6	T104704528	03-31-16
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P-Soil-01	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
D516-90, 02	Sulfate	ASTM	TAL BUF
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaCO ₃)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater",
- 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
- TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: New York State D.E.C.
Project/Site: Westchester County Airport Landfill

TestAmerica Job ID: 480-77695-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-77695-1	MM3-040215-WCA-1	Water	04/02/15 11:00	04/03/15 10:00
480-77695-2	MM3-040215-WCA-2	Water	04/02/15 14:00	04/03/15 10:00
480-77695-3	MM3-040215-WCA-3	Water	04/02/15 12:50	04/03/15 10:00
480-77695-4	MM3-040215-WCA-4	Water	04/02/15 13:00	04/03/15 10:00
480-77695-5	MM3-040215-WCA-5	Solid	04/02/15 13:30	04/03/15 10:00
480-77695-6	MM3-040215-WCA-6	Solid	04/02/15 14:30	04/03/15 10:00
480-77695-7	MM3-040215-WCA-7	Solid	04/02/15 11:45	04/03/15 10:00
480-77695-8	TRIP BLANK	Water	04/02/15 00:00	04/03/15 10:00



Chain of Custody Record

Client Contact New York State Department of Environmental Conservation 21 South Puff Corners Rd New Paltz, NY 12561 (845) 256-3126 Phone (845) 255-3414 FAX Project Name: Region 3/Solid Waste Site: Westchester County Airport Landfill P O #		Project Manager: Steven Parsio Tel/Fax: 845-256-3126 Analysis Turnaround Time Calendar (C) or Work Days (W) 10 W TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Date: 04-02-15 Lab Contact: Judy Stone Carrier: UPS		COC No: 1 of 1 COCs Job No. SDG No.	
Sample Identification MM3-040215-WCA-1 MM3-040215-WCA-2 U MM3-040215-WCA-3 D MM3-040215-WCA-4 D MM3-040215-WCA-5 D MM3-040215-WCA-6 U MM3-040215-WCA-7		Sample Date 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015	Sample Time 11:00 14:00 12:50 13:00 13:30 14:30 11:45	Sample Type GW SW GW SW SED SED FLOC	Matrix W W W W S S S	# of Cont. 17 17 17 17 4 4 4	
350.1, 410.4, 351.2 6010G, 7470A Hardness Phenols VOCs TOC BOD TDS 300.0 28D Cyanide Color, Nitrate, Cl, SO4 Alkalinity TAL Metals, Mercury SVOC, Pesticide/PCBs Moisture Metals, TOC		Sample Specific Notes: 480-77695 Chain of Custody		Date/Time: 4/2/15 15:30 Date/Time: 4/3/15 1000 Date/Time:			
Relinquished by: S. Parsio Relinquished by: Relinquished by:		Company: NYSDEC Company: Company:		Received by: [Signature] Received by: [Signature] Received by: [Signature]		Company: [Signature] Company: TA BAF Company:	

#1 2.3, 2.5, 2.9

Chain of Custody Record



480-77695 Chain of Custody

Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc. Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State/Zip: PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email: Project Name: Westchester County Airport Landfill Site:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Due Date Requested: 4/15/2015 TAT Requested (days): PO #: WO #: Project #: 48011489 SOW#:	Sampler: Phone: Analysis Requested:	COC No: 480-23425.1 Page: Page 1 of 1 Job #: 480-77695-1 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 Other: 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)
Sample Identification - Client ID (Lab ID) MMS-040215-WCA-7 (480-77695-7)		Matrix (W=water, S=solid, O=water/sol, BT=Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time: 11-45 Eastern Sample Date: 4/2/15 Preservation Code: Solid Field Filtered Sample (Yes or No)	Total Number of Containers: 1 Special Instructions/Note:	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	Special Instructions/QC Requirements:	
Relinquished by: <i>Kenneth Wallace</i> Relinquished by: _____ Relinquished by: _____		Date: 4-8-15 1700 Date/Time: _____ Date/Time: _____ Date/Time: _____	Date/Time: _____ Date/Time: _____ Date/Time: _____	
Custody Seals Intact: _____ Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:		



Client Information (Sub Contract Lab)		Sampler: Stone, Judy L		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-23424.1	
Shipping/Receiving		Phone:		E-Mail: judy.stone@testamericainc.com		Page 1 of 1		Job #: 480-77695-1	
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 4/15/2015		TAT Requested (days):		Analysis Requested		Preservation Codes:	
Address: 30 Community Drive, Suite 11, South Burlington, VT, 05403		PO #:		WO #:		Field Filtered Sample (Yes or No)		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 Other:	
Phone: 802-660-1990(Tel) 802-660-1919(Fax)		Project #: 48011489		SSOW#:		Perform MS/MSD (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Email:		Site: Westchester County Airport Landfill		Sample Date: 4/2/15		Sample Time: 11:45 Eastern		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID)		MM3-040215-WCA-7 (480-77695-7)		Sample Date: 4/2/15		Sample Time: 11:45 Eastern		Special Instructions/Note: MUST centrifuge original liquid sample FIRST, then send a portion of solids to	
Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)		Sample Type (C=Comp, G=grab)		Preservation Code:		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Solid						X			
Possible Hazard Identification		Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: <i>Jameson Wallace</i>		Date/Time: 4-8-15 1700		Company: TAB		Return To Client		Archive For	
Relinquished by:		Date/Time:		Company:		Disposal By Lab		Months	
Relinquished by:		Date/Time:		Company:		Special Instructions/QC Requirements:		Method of Shipment:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Received by: <i>Judy</i>		Date/Time: 4/9/15 1000	
						Received by:		Date/Time:	
						Received by:		Date/Time:	



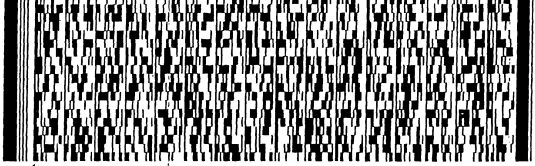
ORIGIN ID:DKKA (716) 504-9848
KEN KINECKI
TESTAMERICA LABS
10 HAZELWOOD DRIVE

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 08APR15
ACTWGT: 54.7 LB
CAD: 846654/CAFE2807
DIMS: 23x16x15 IN

BILL RECIPIENT

**TO MARK PHILLIPS
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403**
(802) 660-1990 REF: BURLINGTON
DEPT: SAMPLE CONTROL



FedEx
Express



52101/0403/0503

J14121402001-14

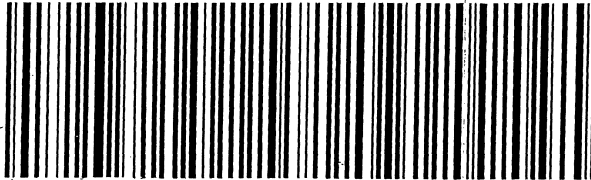
TRK# 5657 0118 1518
0201

THU - 09 APR AA
STANDARD OVERNIGHT

EK BTVA

05403
VT-US BTV

0201 1403 0118 1518



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Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-77695-1

Login Number: 77695

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

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	NYS DEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-77695-1

Login Number: 77695

List Source: TestAmerica Burlington

List Number: 2

List Creation: 04/09/15 12:58 PM

Creator: Young, Joseph W

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	234015
Sample custody seals, if present, are 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	5.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-77695-1

Login Number: 77695

List Number: 3

Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

List Creation: 04/09/15 04:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

