

February 13, 2013

Ms. Jennifer Davide
Environmental Health and Safety Engineer
AVOX Systems Inc.
255 Erie Street
Lancaster, New York 14086

Subject: Subsurface Investigation Report at AVOX Systems Inc Plant 2

Dear Ms. Davide:

AECOM Technical Services, Inc. (AECOM) is pleased to submit this letter-report summarizing the soil investigation performed on January 14, 2013 at AVOX Systems Inc. (AVOX) Plant 2 located in Lancaster, New York. This work was conducted in accordance with AECOM's proposal dated November 30, 2012. This letter-report describes the field methodology employed, and summarizes both field observations and analytical results.

Field Activities

On January 10, 2013, AECOM's subcontractor Matrix Environmental Technologies, Inc. (Matrix) met with AVOX and performed a site walk to determine a strategy for performing the soil boring activity. At this meeting, a decision was made to advance borings using a hand auger as an alternative to a direct push technology.

On January 14, 2013, AECOM and Matrix mobilized to AVOX Plant 2 to perform a soil investigation. In total, seven soil borings were advanced using a decontaminated two-inch diameter hand auger; two borings were located outside Plant 2 (north side of the building) and five borings were located within the building; refer to **Figure 1** for boring locations and **Appendix A** for a photograph log. The borings located outside the building were advanced to determine if there was an underground tank or buried drum in the investigation area. The borings located indoors were to determine soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals in advance of facility underground utility upgrades. Soil cuttings were placed back into the borehole and boreholes within Plant 2 were patched with concrete.

Field Observations (Outside Plant 2)

Soil borings located outside the footprint of Plant 2 were advanced to approximately 4.7 feet below ground surface. No buried tanks or drums were encountered during advancement of the two borings. Screening of the collected soil cores were completed utilizing a photo ionization detector (PID); soil cores screened for VOCs were at or below background. A slight sheen was observed in Boring #1 at the 4-foot interval, no sheen was observed in Boring #2. The slight sheen observed at Boring #1 may be related to the June 23, 1999 spill (New York State Department of Environmental Conservation (NYSDEC) Spill Number 99-75-229 which was closed on November 29, 2000). Groundwater was observed in the borehole at Boring #1; no groundwater was observed in the borehole at Boring #2. Visual observations and field screening results were recorded on the attached stratigraphic borehole logs (refer to **Appendix B**). Per direction of AVOX, no soil samples were collected for chemical analyses from Boring #1 or Boring #2.

Field Observations (Inside Plant 2)

Prior to advancing the borings within Plant 2, plastic sheeting was placed around the boring locations identified previously by AVOX. The concrete floor at each location was cored using a four-inch diameter concrete corer. The concrete core thicknesses averaged approximately 6 inches; staining was not observed in the five concrete cores. Immediately following the removal of each concrete core, a PID measurement was recorded from the borehole; VOC results were at or below background. A 2-inch diameter hand auger, decontaminated between borings, was advanced to an average of approximately 4.25 feet below top of slab at the five boring locations. Soil samples were collected at three borings (Boring #4, Boring #5, and Boring #6) for VOC, SVOC, and metals analysis. Each soil sample was collected from the hand auger, characterized, and placed into a set of laboratory-certified sample containers using nitrile gloves. In addition, a composite sample from the top 4-feet of core at each indoor location was collected for US Environmental Protection Agency (EPA) Toxicity Characteristic Leaching Procedure (TCLP) analysis. Refer to **Tables 1, 2, 3, and 4** for a summary of data and **Appendix C** for the laboratory data report. Note the VOC samples were collected prior to homogenization using a Terracore sample device.

Black colored fine to medium size sand was observed at each boring location throughout the entire boring depth. At one location (Boring #6), medium tan-colored silt was identified at the 45 to 46-inch interval (lower-most interval). PID readings ranged from background to 3.5 PPM (Boring #5, 7 to 16-inch interval).

Analytical Results

Soil samples were analyzed for VOCs, SVOCs, and metals using EPA methods 8260B, 8270C, and 6010B respectively. In addition, a grab sample was collected from each of the five boring locations at the zero to four foot interval. The five individual grab samples were composited into one sample and analyzed for TCLP VOCs, SVOCs, metals, Mercury, ignitability, reactive cyanide, reactive sulfide, and pH using EPA methods 8260B, 8270C, 6010B, 7470A, 1010, 9012, 9034, and 9045C respectively to determine future waste disposal. Per AVOX request, no quality assurance/quality control samples were collected (i.e., duplicate sample, equipment rinse sample, matrix spike/matrix spike duplicate).

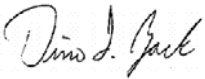
Analytical samples were sent to TestAmerica Buffalo for analysis. Samples were analyzed under standard turnaround time (i.e., 10 business days) and data presented by the laboratory in a Level II digital report.

Analytical data results were compared to the industrial levels listed in NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives (SCO) (December 14, 2006); refer to the attached summary tables. No VOCs or metals were detected above the referenced SCO. Benzo(a)anthracene was detected in three samples above the respective SCO and benzo(b)fluoranthene was detected in one sample (Boring #6) above the respective SCO.

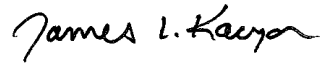
Conclusions

Based on the laboratory data results, the soils at each boring location are not hazardous waste. AECOM recommends discussing soil disposal or reuse options with NYSDEC.

Sincerely Yours,



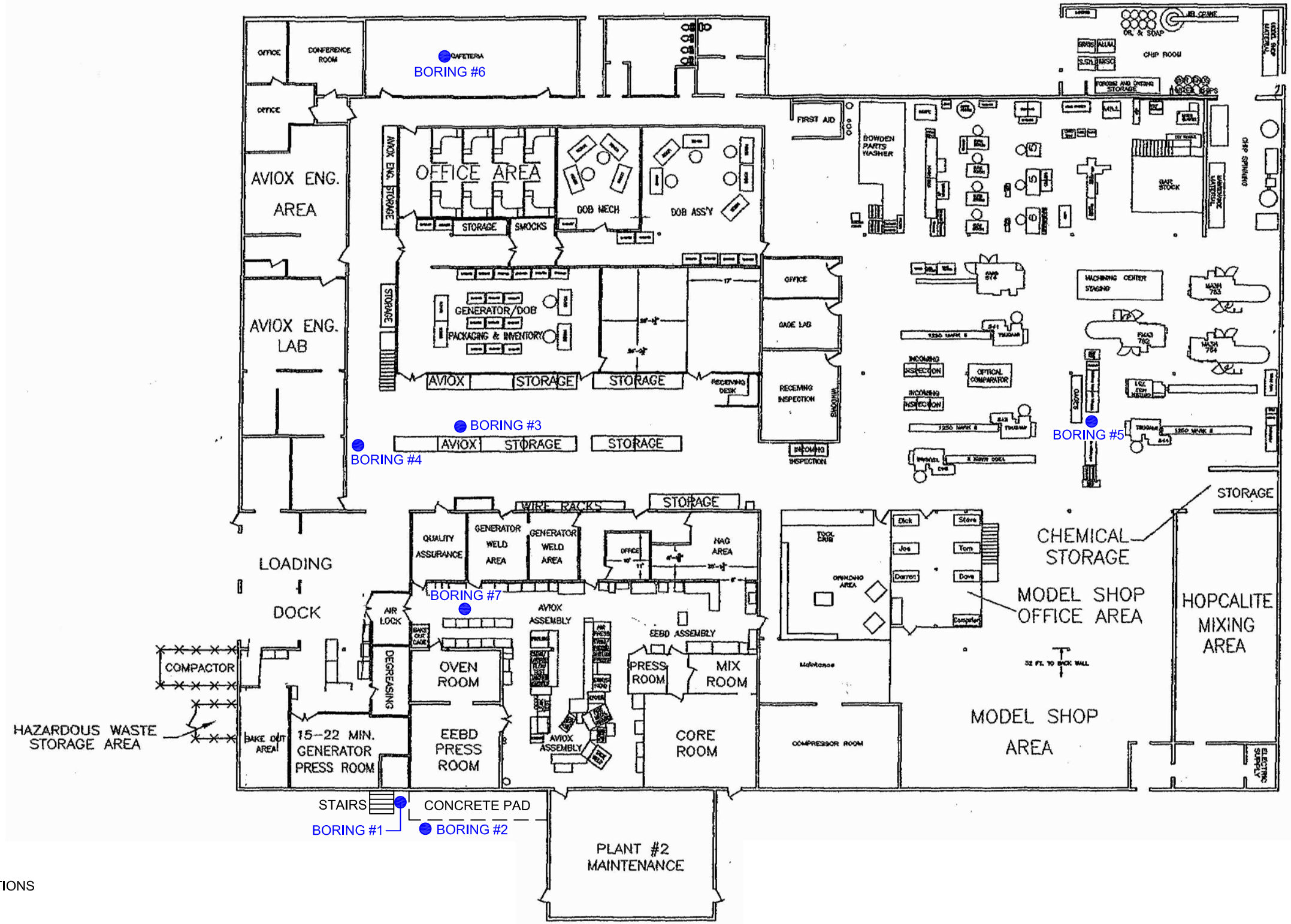
Dino Zack, P.G.
Project Manager



James L. Kaczor, P.G.
Office Manager

cc: Project File 60196345-8

FIGURE



LEGEND:

- BORING LOCATIONS

NOTES:

1. NOT TO SCALE
2. BORING LOCATIONS ARE NOT SURVEYED



**FIGURE 1
BORING LOCATIONS**

AVOX Systems Inc
Lancaster, New York

FEBRUARY 2013

TABLES

Table 1
Soil VOC Data
AVOX Systems Inc
Plant 2 Soil Investigation

Sample ID	Protection of Public Health	BORING 4	BORING 5	BORING 6
Lab Sample Number		480-31593-1	480-31593-2	480-31593-3
Sampling Date	Industrial	1/14/2013 10:00:00 AM	1/14/2013 10:40:00 AM	1/14/2013 11:25:00 AM
1,1,1-Trichloroethane	1,000	ND	ND	ND
1,1,2,2-Tetrachloroethane	NL	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	ND	ND	ND
1,1,2-Trichloroethane	NL	ND	ND	ND
1,1-Dichloroethane	480	ND	ND	ND
1,1-Dichloroethene	1,000	ND	ND	ND
1,2,4-Trichlorobenzene	NL	ND	ND	ND
1,2-Dibromo-3-Chloropropane	NL	ND	ND	ND
1,2-Dibromoethane	NL	ND	ND	ND
1,2-Dichlorobenzene	1,000	ND	ND	ND
1,2-Dichloroethane	60	ND	ND	ND
1,2-Dichloropropane	NL	ND	ND	ND
1,3-Dichlorobenzene	560	ND	ND	ND
1,4-Dichlorobenzene	250	ND	ND	ND
2-Butanone (MEK)	1,000	ND	3.1 J	ND
2-Hexanone	NL	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NL	ND	ND	ND
Acetone	1,000	20 J	32	22
Benzene	89	ND	ND	ND
Bromodichloromethane	NL	ND	ND	ND
Bromoform	NL	ND	ND	ND
Bromomethane	NL	ND	ND	ND
Carbon disulfide	NL	ND	ND	ND
Carbon tetrachloride	44	ND	ND	ND
Chlorobenzene	1,000	ND	ND	ND
Chloroethane	NL	ND	ND	ND
Chloroform	700	ND	ND	ND
Chloromethane	NL	ND	ND	ND
cis-1,2-Dichloroethene	1,000	ND	ND	ND
cis-1,3-Dichloropropene	NL	ND	ND	ND
Cyclohexane	NL	ND	ND	ND
Dibromochloromethane	NL	ND	ND	ND
Dichlorodifluoromethane	NL	ND	ND	ND
Ethylbenzene	780	ND	ND	ND
Isopropylbenzene	NL	ND	ND	ND
Methyl acetate	NL	ND	ND	ND
Methyl tert-butyl ether	1,000	ND	ND	ND
Methylcyclohexane	NL	ND	ND	ND
Methylene Chloride	1,000	ND	ND	ND
Styrene	NL	ND	ND	ND
Tetrachloroethene	300	ND	ND	ND
Toluene	1,000	ND	ND	ND
trans-1,2-Dichloroethene	1,000	ND	ND	ND
trans-1,3-Dichloropropene	NL	ND	ND	ND
Trichloroethene	400	ND	ND	ND
Trichlorofluoromethane	NL	ND	ND	ND
Vinyl chloride	27	ND	ND	ND
Xylenes, Total	1,000	ND	ND	ND

(1) NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives (SCO), December 14, 2006.

Units are in ug/Kg

NL - Indicates compound in not listed on the SCO table.

Table 2
Soil SVOC Data
AVOX Systems Inc
Plant 2 Soil Investigation

Sample ID Lab Sample Number	Protection of Public Health	BORING 4	BORING 5	BORING 6
		480-31593-1	480-31593-2	480-31593-3
Sampling Date	Industrial	1/14/2013 10:00:00 AM	1/14/2013 10:40:00 AM	1/14/2013 11:25:00 AM
2,4,5-Trichlorophenol	NL	ND	ND	ND
2,4,6-Trichlorophenol	NL	ND	ND	ND
2,4-Dichlorophenol	NL	ND	ND	ND
2,4-Dimethylphenol	NL	ND	ND	ND
2,4-Dinitrophenol	NL	ND	ND	ND
2,4-Dinitrotoluene	NL	ND	ND	ND
2,6-Dinitrotoluene	NL	ND	ND	ND
2-Chloronaphthalene	NL	ND	ND	ND
2-Chlorophenol	NL	ND	ND	ND
2-Methylnaphthalene	NL	13 J	220	ND
2-Methylphenol	1,000	ND	ND	ND
2-Nitroaniline	NL	ND	ND	ND
2-Nitrophenol	NL	ND	ND	ND
3,3'-Dichlorobenzidine	NL	ND	ND	ND
3-Nitroaniline	NL	ND	ND	ND
4,6-Dinitro-2-methylphenol	NL	ND	ND	ND
4-Bromophenyl phenyl ether	NL	ND	ND	ND
4-Chloro-3-methylphenol	NL	ND	ND	ND
4-Chloroaniline	NL	ND	ND	ND
4-Chlorophenyl phenyl ether	NL	ND	ND	ND
4-Methylphenol	1,000	ND	ND	ND
4-Nitroaniline	NL	ND	ND	ND
4-Nitrophenol	NL	ND	ND	ND
Acenaphthene	1,000	ND	ND	ND
Acenaphthylene	1,000	ND	ND	ND
Acetophenone	NL	ND	66 J	ND
Anthracene	1,000	ND	54 J	ND
Atrazine	NL	ND	ND	ND
Benzaldehyde	NL	32 J	91 J	36 J
Benzo(a)anthracene	11	19 J	54 J	30 J
Benzo(a)pyrene	1.1	ND	ND	ND
Benzo(b)fluoranthene	11	ND	ND	33 J
Benzo(g,h,i)perylene	1,000	ND	ND	ND
Benzo(k)fluoranthene	110	ND	ND	ND
Biphenyl	NL	11 J	84 J	ND
bis (2-chloroisopropyl) ether	NL	ND	ND	ND
Bis(2-chloroethoxy)methane	NL	ND	ND	ND
Bis(2-chloroethyl)ether	NL	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NL	ND	ND	ND
Butyl benzyl phthalate	NL	ND	ND	ND
Caprolactam	NL	ND	420	ND
Carbazole	NL	ND	ND	ND
Chrysene	110	68 J	95 J	54 J
Dibenz(a,h)anthracene	1.1	ND	ND	ND
Dibenzofuran	1,000	ND	48 J	ND
Diethyl phthalate	NL	ND	ND	ND
Dimethyl phthalate	NL	ND	ND	ND
Di-n-butyl phthalate	NL	ND	ND	ND
Di-n-octyl phthalate	NL	ND	ND	ND
Fluoranthene	1,000	49 J	160 J	40 J
Fluorene	1,000	ND	92 J	ND
Hexachlorobenzene	12	ND	ND	ND
Hexachlorobutadiene	NL	ND	ND	ND
Hexachlorocyclopentadiene	NL	ND	ND	ND
Hexachloroethane	NL	ND	ND	ND
Indeno(1,2,3-cd)pyrene	11	ND	ND	ND
Isophorone	NL	ND	ND	ND
Naphthalene	1,000	24 J	240	ND
Nitrobenzene	NL	ND	ND	ND
N-Nitrosodi-n-propylamine	NL	ND	ND	ND
N-Nitrosodiphenylamine	NL	ND	ND	ND
Pentachlorophenol	55	ND	ND	ND
Phenanthrene	1,000	140 J	620	140 J
Phenol	1,000	ND	ND	ND
Pyrene	1,000	40 J	140 J	33 J

(1) NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives (SCO), December 14, 2006.

Units are in ug/Kg

NL - Indicates compound in not listed on the SCO table.

Bold font indicates the analyte was detected.

Bold outline indicates the screening criteria was exceeded.

ND - Indicates compound below associated detection level.

J - Indicates an estimated value.

Table 3
Soil Metals Data
AVOX Systems Inc
Plant 2 Soil Investigation

Sample ID	Protection of Public Health	BORING 4	BORING 5	BORING 6
Lab Sample Number		480-31593-1	480-31593-2	480-31593-3
Sampling Date	Industrial ⁽¹⁾	1/14/2013 10:00:00 AM	1/14/2013 10:40:00 AM	1/14/2013 11:25:00 AM
Aluminum	NL	937	843	1,620
Antimony	NL	ND	ND	ND
Arsenic	16	6.9	1.4 J	3.9
Barium	10,000	34.8	5.7	14.4
Beryllium	2,700	0.042 J	0.041 J	0.083 J
Cadmium	60	0.16 J	0.091 J	0.11 J
Calcium	NL	2,140 B	816 B	1,270 B
Chromium	6,800	75.4	11.3	25.2
Cobalt	NL	4.8	0.89	3.0
Copper	10,000	194	22.4	49.4
Iron	NL	54,200 B	10,600 B	27,400 B
Lead	3,900	11.0	6.9	9.7
Magnesium	NL	623	388	468
Manganese	10,000	555 B	175 B	383 B
Nickel	10,000	58.5	6.8	19.2
Potassium	NL	99.2	135	247
Selenium	6,800	0.44 J	0.51 J	0.59 J
Silver	6,800	0.30 J	ND	ND
Sodium	NL	373	82.3 J	349
Thallium	NL	ND	ND	ND
Vanadium	NL	4.5	1.1	1.9
Zinc	10,000	13.8 B	8.0 B	13.3 B
Mercury	5.7	ND	ND	ND

(1) NYSDEC Subpart 375-6, Remedial Program Soil Cleanup Objectives (SCO), December 14, 2006.

Units are in mg/Kg

NL - Indicates compound in not listed on the SCO table.

Bold font indicates the analyte was detected.

ND - Indicates compound below associated detection level.

J - Indicates an estimated value.

B - Compound was found in the blank and sample.

Table 4
Soil TCLP Data
AVOX Systems Inc
Plant 2 Soil Investigation

Sample ID	IDW-1
Lab Sample Number	480-31593-4
Sampling Date	1/14/2013 5:00:00 PM
Method 8260B - TCLP Volatiles	
Benzene	ND
Carbon tetrachloride	ND
Chlorobenzene	ND
Chloroform	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
2-Butanone (MEK)	ND
Tetrachloroethene	ND
Trichloroethene	ND
Vinyl chloride	ND
Method 8270B - TCLP Semi-Volatiles	
1,4-Dichlorobenzene	ND
2,4-Dinitrotoluene	ND
Hexachlorobenzene	ND
Hexachlorobutadiene	ND
Hexachloroethane	ND
3-Methylphenol	ND
2-Methylphenol	ND
4-Methylphenol	ND
Nitrobenzene	ND
Pentachlorophenol	ND
Pyridine	ND
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND
Method 6010B - TCLP RCRA Metals	
Arsenic	0.042
Barium	0.41 B
Cadmium	0.0034
Chromium	.018 B
Lead	0.26
Selenium	ND
Silver	ND
Method 7470A - TCLP Mercury	
Mercury	ND
General Chemistry	
Cyanide, Reactive	ND
Sulfide, Reactive	ND
Flashpoint	>176.0
pH	9.55

Units are in mg/L

Bold font indicates the analyte was detected.

ND - Indicates compound below associated detection level.

B - Compound was found in the blank and sample.



APPENDIX A

Photograph Log

Client Name: AVOX Systems Inc
Project No.: 60196345

Site Location: AVOX Systems Inc
225 Erie Street, Lancaster, New York

Photo No.
1

Date:
01/14/13

Direction Photo Taken:

South

Description:

View of Matrix using hand auger to advance Boring #1 on north side of Plant 2.



Photo No.
2

Date:
01/14/13

Direction Photo Taken:

South

Description:

View of Matrix using hand auger to advance Boring #2 on north side of Plant 2.



Photo No. 3	Date: 01/14/13
Direction Photo Taken: North	
Description: View of concrete core from Boring #3. No staining observed in core.	



Photo No. 4	Date: 01/14/13
Direction Photo Taken: North	
Description: View of Matrix using hand auger to advance Boring #3. Boring located between storage shelves north of the quality assurance room.	



Photo No. 5	Date: 01/14/13
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Direction Photo Taken: North
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Description: View of black sandy fill in hand auger from Boring #3 (immediately below the slab).
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Photo No. 6	Date: 01/14/13
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Direction Photo Taken: South
--

Description: Close up of black sandy fill from Boring #3.



Photo No.
7

Date:
01/14/13

Direction Photo Taken:

North

Description:

View of black sandy fill in hand auger from Boring #3 (~6' bgs).



Photo No.
8

Date:
01/14/13

Direction Photo Taken:

South

Description:

View of Matrix advancing hand auger at Boring #4.



Photo No. 9	Date: 01/14/13
Direction Photo Taken: Southeast	
Description: View of Matrix removing hand auger at Boring #5.	



Photo No. 10	Date: 01/14/13
Direction Photo Taken: North	
Description: View of concrete core from Boring #6. Boring located in cafeteria. Note two layers of floor tile.	



Photo No. 11	Date: 01/14/13
Direction Photo Taken: West	
Description: View of black sandy fill in hand auger from Boring #6.	



Photo No. 12	Date: 01/14/13
Direction Photo Taken: West	
Description: View of black sandy fill in hand auger from Boring #7. Boring located in AVIOX Assembly Room.	





APPENDIX B

Boring Logs

BORING LOG				HOLE NO.		Boring #1		
PROJECT AVOX Systems Inc - Plant 2 Soil Investigation				10. HOLE LOCATION North of Plant 2		SHEET 1 OF SHEETS 1		
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED NA	UNDISTURBED NA	
2. COMPANY AECOM Technical Services, Inc.				12. SAMPLES FOR CHEMICAL ANALYSIS 0		13. Total Number of Core Boxes NA		
3. DRILLING COMPANY Matrix Environmental Technologies Inc				14. SURFACE ELEVATION AT HOLE NA		15. ELEVATION DATUM NA		
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger				17. DATE HOLE STARTED 1/14/2013		18. DATE HOLE COMPLETED 1/14/2013		
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger				16. DEPTH OF GROUNDWATER ENCOUNTERED NA				
6. NAME OF DRILLER Mark Janus				19. WEATHER Cloudy, 25F				
7. THICKNESS OF OVERBURDEN 4.7 feet				20. DISPOSITION OF HOLE Backfilled				
8. DEPTH DRILLED INTO ROCK NA				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 4.7 feet				22. SIGNATURE OF INSPECTOR				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 8" - grayish brown limestone aggregate (FILL), moist. 8 - 16" - grayish brown limestone aggregate with some reddish brown silt (FILL), moist. 16 - 24" - reddish brown silt, some limestone aggregate (FILL), moist.			0.0		
	2					0.0		
	3		24 - 32" - reddish brown silt, some limestone aggregate (FILL), moist/wet. 32 - 40" - medium brown silt, some f-c sand, little clay, trace plastic (FILL), wet. 40 - 48" - medium brown silt, little f-c sand, little clay, little limestone (FILL), wet, slight sheen.			0.0		
	4					0.0		
	5		48 - 56" - medium brown silt and rounded 1/2" gravel (FILL), wet, slight sheen. Bottom of borehole at 56" Groundwater infiltrated borehole. Backfill borehole with soil cuttings.			0.0		
	6							
	7							
	8							
	9							
	10							

BORING LOG				HOLE NO.		Boring #2		
PROJECT AVOX Systems Inc - Plant 2 Soil Investigation				10. HOLE LOCATION North of Plant 2		SHEET 1 OF SHEETS 1		
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED NA	UNDISTURBED NA	
2. COMPANY AECOM Technical Services, Inc.				12. SAMPLES FOR CHEMICAL ANALYSIS 0		13. Total Number of Core Boxes NA		
3. DRILLING COMPANY Matrix Environmental Technologies Inc				14. SURFACE ELEVATION AT HOLE NA		15. ELEVATION DATUM NA		
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger				17. DATE HOLE STARTED 1/14/2013		18. DATE HOLE COMPLETED 1/14/2013		
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger				16. DEPTH OF GROUNDWATER ENCOUNTERED NA				
6. NAME OF DRILLER Mark Janus				19. WEATHER Cloudy, 25F				
7. THICKNESS OF OVERBURDEN 4.7 feet				20. DISPOSITION OF HOLE Backfilled				
8. DEPTH DRILLED INTO ROCK NA				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 4.7 feet				22. SIGNATURE OF INSPECTOR				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 8" - dark grey limestone aggregate with some reddish brown silt (FILL), moist. 8 - 16" - reddish brown silt, some limestone aggregate (FILL), moist. 16 - 24" - reddish brown silt, some limestone aggregate (FILL), moist.			0.0		
	2		24 - 32" - reddish brown silt (FILL), moist.			0.0		
	3		32 - 40" - reddish brown silt (FILL), dry-moist. 40 - 48" - reddish brown silt (FILL), moist.			0.0		
	4		48 - 56" - reddish brown silt (FILL), moist.			0.0		
	5		Bottom of borehole at 56" Backfill borehole with soil cuttings.					
	6							
	7							
	8							
	9							
	10							

BORING LOG				HOLE NO.		Boring #3		
PROJECT AVOX Systems Inc - Plant 2 Soil Investigation				10. HOLE LOCATION Inside Plant 2		SHEET 1 OF SHEETS 1		
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED NA	UNDISTURBED NA	
2. COMPANY AECOM Technical Services, Inc.				12. SAMPLES FOR CHEMICAL ANALYSIS 1		13. Total Number of Core Boxes NA		
3. DRILLING COMPANY Matrix Environmental Technologies Inc				14. SURFACE ELEVATION AT HOLE NA		15. ELEVATION DATUM NA		
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger				17. DATE HOLE STARTED 1/14/2013		18. DATE HOLE COMPLETED 1/14/2013		
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger and 4-inch concrete corer				16. DEPTH OF GROUNDWATER ENCOUNTERED NA				
6. NAME OF DRILLER Mark Janus				19. WEATHER Cloudy, 25F				
7. THICKNESS OF OVERBURDEN 6 feet				20. DISPOSITION OF HOLE Backfilled and patched with concrete				
8. DEPTH DRILLED INTO ROCK NA				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 6 feet				22. SIGNATURE OF INSPECTOR				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 8" - concrete core. 8 - 24" - black f-m sand (FILL), moist.			0.0 0.0		Sample collected for TCLP composite
	2		24 - 43" - black f-m sand (FILL), moist.			0.0		Sample collected for TCLP composite
	3							
	4		43 - 52" - black f-m sand (FILL), moist.			0.0		
	5		52 - 62" - black f-m sand (FILL), moist.			0.0		
	6		62 - 72" - black f-m sand (FILL), moist.			0.0		
	7		Bottom of borehole at 72" Backfill borehole with soil cuttings and patch with concrete.					
	8							
	9							
	10							

BORING LOG

HOLE NO. **Boring #4**

PROJECT AVOX Systems Inc - Plant 2 Soil Investigation			10. HOLE LOCATION Inside Plant 2			SHEET 1 OF 1 SHEETS		
1. LOCATION Lancaster, New York			11. NO. OF OVERBURDEN GEOTECH SAMPLES 0			DISTURBED NA UNDISTURBED NA		
2. COMPANY AECOM Technical Services, Inc.			12. SAMPLES FOR CHEMICAL ANALYSIS 2			13. Total Number of Core Boxes NA		
3. DRILLING COMPANY Matrix Environmental Technologies Inc			14. SURFACE ELEVATION AT HOLE NA			15. ELEVATION DATUM NA		
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger			17. DATE HOLE STARTED 1/14/2013			18. DATE HOLE COMPLETED 1/14/2013		
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger and 4-inch concrete corer			16. DEPTH OF GROUNDWATER ENCOUNTERED NA					
6. NAME OF DRILLER Mark Janus			19. WEATHER Cloudy, 25F					
7. THICKNESS OF OVERBURDEN 4.2 feet			20. DISPOSITION OF HOLE Backfilled and patched with concrete					
8. DEPTH DRILLED INTO ROCK NA			21. NAME OF INSPECTOR Dino Zack					
9. TOTAL DEPTH OF HOLE 4.2 feet			22. SIGNATURE OF INSPECTOR					
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 7" - concrete core. 7 - 32" - black f-m sand (FILL), moist.			0.0 0.3		Sample collected for TCLP composite Collect sample from 7-32" for VOC, SVOC, and metals analysis
	2		32 - 40" - black f-m sand (FILL), moist.			0.0		Sample collected for TCLP composite
	3							
	4		40 - 50" - black f-m sand (FILL), moist.			0.0		
	5		Bottom of borehole at 50" Backfill borehole with soil cuttings and patch with concrete.					
	6							
	7							
	8							
	9							
	10							

BORING LOG

HOLE NO. **Boring #5**

PROJECT AVOX Systems Inc - Plant 2 Soil Investigation		10. HOLE LOCATION Inside Plant 2		SHEET SHEETS 1 OF 1	
1. LOCATION Lancaster, New York		11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED UNDISTURBED NA NA	
2. COMPANY AECOM Technical Services, Inc.		12. SAMPLES FOR CHEMICAL ANALYSIS 2		13. Total Number of Core Boxes NA	
3. DRILLING COMPANY Matrix Environmental Technologies Inc		14. SURFACE ELEVATION AT HOLE NA		15. ELEVATION DATUM NA	
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger		17. DATE HOLE STARTED 1/14/2013		18. DATE HOLE COMPLETED 1/14/2013	
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger and 4-inch concrete corer		16. DEPTH OF GROUNDWATER ENCOUNTERED NA			
6. NAME OF DRILLER Mark Janus		19. WEATHER Cloudy, 25F			
7. THICKNESS OF OVERBURDEN 3.7 feet		20. DISPOSITION OF HOLE Backfilled and patched with concrete			
8. DEPTH DRILLED INTO ROCK NA		21. NAME OF INSPECTOR Dino Zack			
9. TOTAL DEPTH OF HOLE 3.7 feet		22. SIGNATURE OF INSPECTOR			

ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
			0 - 7" - concrete core.			0.0		
	1		7 - 16" - black f-m sand (FILL), moist.			3.5		Sample collected for TCLP composite
	2		16 - 27" - black f-m sand (FILL), moist.			1.7		Collect sample from 7-16" for VOC, SVOC, and metals analysis
	3		27 - 45" - black f-m sand (FILL), moist.			0.5		Sample collected for TCLP composite
	4		Bottom of borehole at 45" Backfill borehole with soil cuttings and patch with concrete.					
	5							
	6							
	7							
	8							
	9							
	10							

BORING LOG

HOLE NO. **Boring #6**

PROJECT AVOX Systems Inc - Plant 2 Soil Investigation			10. HOLE LOCATION Inside Plant 2			SHEET 1 OF 1 SHEETS		
1. LOCATION Lancaster, New York			11. NO. OF OVERBURDEN GEOTECH SAMPLES 0			DISTURBED NA		
2. COMPANY AECOM Technical Services, Inc.			12. SAMPLES FOR CHEMICAL ANALYSIS 2			UNDISTURBED NA		
3. DRILLING COMPANY Matrix Environmental Technologies Inc			14. SURFACE ELEVATION AT HOLE NA			13. Total Number of Core Boxes NA		
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger			17. DATE HOLE STARTED 1/14/2013			15. ELEVATION DATUM NA		
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger and 4-inch concrete corer			16. DEPTH OF GROUNDWATER ENCOUNTERED NA			18. DATE HOLE COMPLETED 1/14/2013		
6. NAME OF DRILLER Mark Janus			19. WEATHER Cloudy, 25F					
7. THICKNESS OF OVERBURDEN 3.7 feet			20. DISPOSITION OF HOLE Backfilled and patched with concrete					
8. DEPTH DRILLED INTO ROCK NA			21. NAME OF INSPECTOR Dino Zack					
9. TOTAL DEPTH OF HOLE 3.7 feet			22. SIGNATURE OF INSPECTOR					
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 5" - concrete core. 5 - 32" - black f-m sand (FILL), moist.			0.0 1.7		Sample collected for TCLP composite Collect sample from 5 - 32" for VOC, SVOC, and metals analysis
	2		32 - 45" - black f-m sand (FILL), moist. 45 - 46" - medium tan SILT, little clay, moist.			0.0		Sample collected for TCLP composite
	3		Bottom of borehole at 46"					
	4		Backfill borehole with soil cuttings and patch with concrete.					
	5							
	6							
	7							
	8							
	9							
	10							

BORING LOG

HOLE NO. **Boring #7**

PROJECT AVOX Systems Inc - Plant 2 Soil Investigation				10. HOLE LOCATION Inside Plant 2			SHEET 1 OF 1 SHEETS	
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0			DISTURBED NA	UNDISTURBED NA
2. COMPANY AECOM Technical Services, Inc.				12. SAMPLES FOR CHEMICAL ANALYSIS 1			13. Total Number of Core Boxes NA	
3. DRILLING COMPANY Matrix Environmental Technologies Inc				14. SURFACE ELEVATION AT HOLE NA			15. ELEVATION DATUM NA	
4. MANUFACTURER'S DESIGNATION OF DRILL Hand auger				17. DATE HOLE STARTED 1/14/2013			18. DATE HOLE COMPLETED 1/14/2013	
5. SIZE AND TYPE OF EQUIPMENT 2-inch auger and 4-inch concrete corer				16. DEPTH OF GROUNDWATER ENCOUNTERED NA				
6. NAME OF DRILLER Mark Janus				19. WEATHER Cloudy, 25F				
7. THICKNESS OF OVERBURDEN 3.7 feet				20. DISPOSITION OF HOLE Backfilled and patched with concrete				
8. DEPTH DRILLED INTO ROCK NA				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 3.6 feet				22. SIGNATURE OF INSPECTOR				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0 - 6" - concrete core. 6 - 32" - black f-m sand (FILL), moist.			0.0 0.1		Sample collected for TCLP composite
	2		32 - 41" - black f-m sand (FILL), moist. 41 - 44" - medium tan SILT, little clay, moist.			0.0		Sample collected for TCLP composite
	3		Refusal at 44" Bottom of borehole at 44"					
	4		Backfill borehole with soil cuttings and patch with concrete.					
	5							
	6							
	7							
	8							
	9							
	10							



APPENDIX C

Analytical Laboratory Data

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: 480-31593-1

Client Project/Site: AVOX project

For:

AECOM, Inc.

100 Corporate Parkway

Suite 341

Amherst, New York 14226

Attn: Mr. Dino Zack



Authorized for release by:

1/25/2013 9:58:42 AM

Brian Fischer

Project Manager II

brian.fischer@testamericainc.com

LINKS

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results through

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www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the 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.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
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: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Job ID: 480-31593-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-31593-1

Comments

No additional comments.

Receipt

The samples were received on 1/15/2013 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted due to the nature of the TCLP sample matrix: (LB 480-100037/1-A), IDW-1 (480-31593-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 99850 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C: The laboratory control sample (LCS) for batch 99850 exceeded control limits for multiple analytes. These analytes have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The Method Blank for batch 480-99805 contained total calcium, iron, manganese, and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples BORING 4 (480-31593-1), BORING 5 (480-31593-2), BORING 6 (480-31593-3) was not performed.

Method(s) 6010B: The Matrix Spike/ Matrix Spike Duplicate ((480-31593-1 MS), (480-31593-1 MSD)) recoveries for total nickel in batch 480-99805 were outside control limits. The Matrix Spike Duplicate was also outside the quality control limits for total aluminum and calcium. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample (LCS) met acceptance criteria, therefore no corrective action was necessary.

Method(s) 6010B: The Matrix Spike/ Matrix Spike Duplicate ((480-31593-1 MS), (480-31593-1 MSD)) recoveries for total chromium in batch 480-99805 were outside control limits. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample (LCS) met acceptance criteria, therefore no corrective action was necessary.

Method(s) 6010B: The TCLP Extractor Blank, LB 480-1000000, contained total chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample IDW-1 (480-31593-4) was not performed.

Method(s) 6010B: The TCLP Extractor Blank, LB 480-1000000, contained total barium above the reporting limit (RL). The associated sample IDW-1 (480-31593-4) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the sample was not performed.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Lab Sample ID: 480-31593-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20	J	23	3.8	ug/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	13	J	180	2.2	ug/Kg	1	☼	8270C	Total/NA
Benzaldehyde	32	J	180	20	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	19	J	180	3.1	ug/Kg	1	☼	8270C	Total/NA
Biphenyl	11	J	180	11	ug/Kg	1	☼	8270C	Total/NA
Chrysene	68	J	180	1.8	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	49	J	180	2.6	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	24	J	180	3.0	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	140	J	180	3.8	ug/Kg	1	☼	8270C	Total/NA
Pyrene	40	J	180	1.2	ug/Kg	1	☼	8270C	Total/NA
Aluminum	937		10.8	4.7	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		2.2	0.43	mg/Kg	1	☼	6010B	Total/NA
Barium	34.8		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.042	J	0.22	0.030	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	J	0.22	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	2140	B	53.8	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	75.4		0.54	0.22	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		0.54	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	194		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Iron	54200	B	10.8	1.2	mg/Kg	1	☼	6010B	Total/NA
Lead	11.0		1.1	0.26	mg/Kg	1	☼	6010B	Total/NA
Magnesium	623		21.5	1.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	555	B	0.22	0.034	mg/Kg	1	☼	6010B	Total/NA
Nickel	58.5		5.4	0.25	mg/Kg	1	☼	6010B	Total/NA
Potassium	99.2		32.3	21.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	4.3	0.43	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30	J	0.54	0.22	mg/Kg	1	☼	6010B	Total/NA
Sodium	373		151	14.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.5		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Zinc	13.8	B	2.2	0.16	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: BORING 5

Lab Sample ID: 480-31593-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.1	J	22	1.6	ug/Kg	1	☼	8260B	Total/NA
Acetone	32		22	3.8	ug/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	220		190	2.2	ug/Kg	1	☼	8270C	Total/NA
Acetophenone	66	J	190	9.4	ug/Kg	1	☼	8270C	Total/NA
Anthracene	54	J	190	4.7	ug/Kg	1	☼	8270C	Total/NA
Benzaldehyde	91	J	190	20	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	54	J	190	3.2	ug/Kg	1	☼	8270C	Total/NA
Biphenyl	84	J	190	11	ug/Kg	1	☼	8270C	Total/NA
Caprolactam	420		190	79	ug/Kg	1	☼	8270C	Total/NA
Chrysene	95	J	190	1.8	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	48	J	190	1.9	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	160	J	190	2.7	ug/Kg	1	☼	8270C	Total/NA
Fluorene	92	J	190	4.2	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	240		190	3.1	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	620		190	3.9	ug/Kg	1	☼	8270C	Total/NA
Pyrene	140	J	190	1.2	ug/Kg	1	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 5 (Continued)

Lab Sample ID: 480-31593-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	843		10.7	4.7	mg/Kg	1	☼	6010B	Total/NA
Arsenic	1.4	J	2.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Barium	5.7		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.041	J	0.21	0.030	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.091	J	0.21	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	816	B	53.6	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	11.3		0.54	0.21	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.89		0.54	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	22.4		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Iron	10600	B	10.7	1.2	mg/Kg	1	☼	6010B	Total/NA
Lead	6.9		1.1	0.26	mg/Kg	1	☼	6010B	Total/NA
Magnesium	388		21.5	0.99	mg/Kg	1	☼	6010B	Total/NA
Manganese	175	B	0.21	0.034	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.8		5.4	0.25	mg/Kg	1	☼	6010B	Total/NA
Potassium	135		32.2	21.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	4.3	0.43	mg/Kg	1	☼	6010B	Total/NA
Sodium	82.3	J	150	13.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	1.1		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Zinc	8.0	B	2.1	0.16	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: BORING 6

Lab Sample ID: 480-31593-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22		21	3.5	ug/Kg	1	☼	8260B	Total/NA
Benzaldehyde	36	J	190	20	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	30	J	190	3.2	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	33	J	190	3.6	ug/Kg	1	☼	8270C	Total/NA
Chrysene	54	J	190	1.9	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	40	J	190	2.7	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	140	J	190	3.9	ug/Kg	1	☼	8270C	Total/NA
Pyrene	33	J	190	1.2	ug/Kg	1	☼	8270C	Total/NA
Aluminum	1620		11.1	4.9	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		2.2	0.44	mg/Kg	1	☼	6010B	Total/NA
Barium	14.4		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.083	J	0.22	0.031	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	J	0.22	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	1270	B	55.4	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	25.2		0.55	0.22	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.0		0.55	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	49.4		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Iron	27400	B	11.1	1.2	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		1.1	0.27	mg/Kg	1	☼	6010B	Total/NA
Magnesium	468		22.2	1.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	383	B	0.22	0.035	mg/Kg	1	☼	6010B	Total/NA
Nickel	19.2		5.5	0.25	mg/Kg	1	☼	6010B	Total/NA
Potassium	247		33.2	22.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	4.4	0.44	mg/Kg	1	☼	6010B	Total/NA
Sodium	349		155	14.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	1.9		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Zinc	13.3	B	2.2	0.17	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: IDW-1

Lab Sample ID: 480-31593-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.042		0.010	0.0056	mg/L	1		6010B	TCLP
Barium	0.41	B	0.0020	0.00070	mg/L	1		6010B	TCLP
Cadmium	0.0034		0.0010	0.00050	mg/L	1		6010B	TCLP
Chromium	0.18	B	0.0040	0.0010	mg/L	1		6010B	TCLP
Lead	0.26		0.0050	0.0030	mg/L	1		6010B	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010	Total/NA
pH	9.55		0.100	0.100	SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Lab Sample ID: 480-31593-1

Date Collected: 01/14/13 10:00

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,1,2-Trichloroethane	ND		4.5	0.59	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.3	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2-Dibromoethane	ND		4.5	0.58	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2-Dichloroethane	ND		4.5	0.23	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,2-Dichloropropane	ND		4.5	2.3	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
2-Butanone (MEK)	ND		23	1.6	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
2-Hexanone	ND		23	2.3	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Acetone	20	J	23	3.8	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Benzene	ND		4.5	0.22	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Bromoform	ND		4.5	2.3	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Bromomethane	ND		4.5	0.41	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Carbon disulfide	ND		4.5	2.3	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Carbon tetrachloride	ND		4.5	0.44	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Chloroethane	ND		4.5	1.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Chloroform	ND		4.5	0.28	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Chloromethane	ND		4.5	0.27	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
cis-1,2-Dichloroethene	ND		4.5	0.58	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
cis-1,3-Dichloropropene	ND		4.5	0.65	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Cyclohexane	ND		4.5	0.63	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Dibromochloromethane	ND		4.5	0.58	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Methyl acetate	ND		4.5	0.84	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Styrene	ND		4.5	0.23	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Toluene	ND		4.5	0.34	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Trichloroethene	ND		4.5	0.99	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Trichlorofluoromethane	ND		4.5	0.43	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	*	01/16/13 10:33	01/16/13 17:12	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Lab Sample ID: 480-31593-1

Date Collected: 01/14/13 10:00

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 92.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		64 - 126	01/16/13 10:33	01/16/13 17:12	1
4-Bromofluorobenzene (Surr)	77		72 - 126	01/16/13 10:33	01/16/13 17:12	1
Toluene-d8 (Surr)	83		71 - 125	01/16/13 10:33	01/16/13 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	39	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,4-Dichlorophenol	ND		180	9.5	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,4-Dimethylphenol	ND		180	49	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,4-Dinitrophenol	ND		350	63	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,4-Dinitrotoluene	ND		180	28	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2,6-Dinitrotoluene	ND		180	44	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Chlorophenol	ND		180	9.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Methylnaphthalene	13	J	180	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Methylphenol	ND		180	5.5	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Nitroaniline	ND		350	58	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
2-Nitrophenol	ND		180	8.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
3,3'-Dichlorobenzidine	ND	*	180	160	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
3-Nitroaniline	ND	*	350	41	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4,6-Dinitro-2-methylphenol	ND		350	62	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Bromophenyl phenyl ether	ND		180	57	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Chloro-3-methylphenol	ND		180	7.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Chloroaniline	ND	*	180	53	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Methylphenol	ND		350	10	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
4-Nitrophenol	ND		350	44	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Acetophenone	ND		180	9.3	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Anthracene	ND		180	4.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Atrazine	ND		180	8.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzaldehyde	32	J	180	20	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzo(a)anthracene	19	J	180	3.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzo(a)pyrene	ND		180	4.3	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzo(b)fluoranthene	ND		180	3.5	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzo(g,h,i)perylene	ND		180	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Biphenyl	11	J	180	11	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Bis(2-chloroethoxy)methane	ND		180	9.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Bis(2-chloroethyl)ether	ND		180	16	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Bis(2-ethylhexyl) phthalate	ND		180	58	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Butyl benzyl phthalate	ND		180	48	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Caprolactam	ND		180	78	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Carbazole	ND		180	2.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Chrysene	68	J	180	1.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Lab Sample ID: 480-31593-1

Date Collected: 01/14/13 10:00

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		180	1.9	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Diethyl phthalate	ND		180	5.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Dimethyl phthalate	ND		180	4.7	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Di-n-butyl phthalate	ND		180	62	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Di-n-octyl phthalate	ND		180	4.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Fluoranthene	49	J	180	2.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Fluorene	ND		180	4.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Hexachlorobenzene	ND		180	9.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Hexachlorobutadiene	ND		180	9.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Hexachlorocyclopentadiene	ND		180	55	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Hexachloroethane	ND		180	14	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Indeno(1,2,3-cd)pyrene	ND		180	5.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Isophorone	ND		180	9.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Naphthalene	24	J	180	3.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Nitrobenzene	ND		180	8.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
N-Nitrosodiphenylamine	ND		180	9.9	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Pentachlorophenol	ND		350	62	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Phenanthrene	140	J	180	3.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Phenol	ND		180	19	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1
Pyrene	40	J	180	1.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		39 - 146	01/16/13 14:11	01/17/13 12:33	1
2-Fluorobiphenyl	87		37 - 120	01/16/13 14:11	01/17/13 12:33	1
2-Fluorophenol	81		18 - 120	01/16/13 14:11	01/17/13 12:33	1
Nitrobenzene-d5	75		34 - 132	01/16/13 14:11	01/17/13 12:33	1
Phenol-d5	77		11 - 120	01/16/13 14:11	01/17/13 12:33	1
p-Terphenyl-d14	91		65 - 153	01/16/13 14:11	01/17/13 12:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	937		10.8	4.7	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Antimony	ND		16.1	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Arsenic	6.9		2.2	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Barium	34.8		0.54	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Beryllium	0.042	J	0.22	0.030	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Cadmium	0.16	J	0.22	0.032	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Calcium	2140	B	53.8	3.6	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Chromium	75.4		0.54	0.22	mg/Kg	☼	01/16/13 11:45	01/18/13 10:36	1
Cobalt	4.8		0.54	0.054	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Copper	194		1.1	0.23	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Iron	54200	B	10.8	1.2	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Lead	11.0		1.1	0.26	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Magnesium	623		21.5	1.0	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Manganese	555	B	0.22	0.034	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Nickel	58.5		5.4	0.25	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Potassium	99.2		32.3	21.5	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Selenium	0.44	J	4.3	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Silver	0.30	J	0.54	0.22	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Lab Sample ID: 480-31593-1

Date Collected: 01/14/13 10:00

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	373		151	14.0	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Thallium	ND		6.5	0.32	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Vanadium	4.5		0.54	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1
Zinc	13.8	B	2.2	0.16	mg/Kg	☼	01/16/13 11:45	01/17/13 17:36	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0086	mg/Kg	☼	01/16/13 10:30	01/16/13 12:15	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 5

Lab Sample ID: 480-31593-2

Date Collected: 01/14/13 10:40

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.32	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,1,2-Trichloroethane	ND		4.5	0.58	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.2	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2-Dibromoethane	ND		4.5	0.57	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2-Dichloroethane	ND		4.5	0.22	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,2-Dichloropropane	ND		4.5	2.2	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
2-Butanone (MEK)	3.1	J	22	1.6	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
2-Hexanone	ND		22	2.2	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Acetone	32		22	3.8	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Benzene	ND		4.5	0.22	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Bromoform	ND		4.5	2.2	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Bromomethane	ND		4.5	0.40	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Carbon disulfide	ND		4.5	2.2	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Carbon tetrachloride	ND		4.5	0.43	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Chloroethane	ND		4.5	1.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Chloroform	ND		4.5	0.28	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Chloromethane	ND		4.5	0.27	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
cis-1,2-Dichloroethene	ND		4.5	0.57	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
cis-1,3-Dichloropropene	ND		4.5	0.64	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Cyclohexane	ND		4.5	0.63	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Dibromochloromethane	ND		4.5	0.57	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Isopropylbenzene	ND		4.5	0.67	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Methyl acetate	ND		4.5	0.83	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Styrene	ND		4.5	0.22	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Toluene	ND		4.5	0.34	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Trichloroethene	ND		4.5	0.98	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Trichlorofluoromethane	ND		4.5	0.42	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1
Xylenes, Total	ND		8.9	0.75	ug/Kg	*	01/16/13 10:33	01/16/13 17:38	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 5

Lab Sample ID: 480-31593-2

Date Collected: 01/14/13 10:40

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		64 - 126	01/16/13 10:33	01/16/13 17:38	1
4-Bromofluorobenzene (Surr)	79		72 - 126	01/16/13 10:33	01/16/13 17:38	1
Toluene-d8 (Surr)	78		71 - 125	01/16/13 10:33	01/16/13 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	40	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,4,6-Trichlorophenol	ND		190	12	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,4-Dichlorophenol	ND		190	9.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,4-Dimethylphenol	ND		190	50	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,4-Dinitrophenol	ND		360	64	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,4-Dinitrotoluene	ND		190	28	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2,6-Dinitrotoluene	ND		190	45	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Chloronaphthalene	ND		190	12	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Chlorophenol	ND		190	9.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Methylnaphthalene	220		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Methylphenol	ND		190	5.7	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Nitroaniline	ND		360	59	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
2-Nitrophenol	ND		190	8.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
3,3'-Dichlorobenzidine	ND	*	190	160	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
3-Nitroaniline	ND	*	360	42	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4,6-Dinitro-2-methylphenol	ND		360	63	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Bromophenyl phenyl ether	ND		190	58	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Chloro-3-methylphenol	ND		190	7.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Chloroaniline	ND	*	190	54	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Chlorophenyl phenyl ether	ND		190	3.9	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Methylphenol	ND		360	10	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Nitroaniline	ND		360	21	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
4-Nitrophenol	ND		360	45	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Acetophenone	66	J	190	9.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Anthracene	54	J	190	4.7	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Atrazine	ND		190	8.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzaldehyde	91	J	190	20	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzo(a)anthracene	54	J	190	3.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzo(a)pyrene	ND		190	4.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzo(b)fluoranthene	ND		190	3.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzo(g,h,i)perylene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Benzo(k)fluoranthene	ND		190	2.0	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Biphenyl	84	J	190	11	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
bis (2-chloroisopropyl) ether	ND		190	19	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Bis(2-chloroethyl)ether	ND		190	16	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Bis(2-ethylhexyl) phthalate	ND		190	59	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Butyl benzyl phthalate	ND		190	49	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Caprolactam	420		190	79	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Carbazole	ND		190	2.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Chrysene	95	J	190	1.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 5

Lab Sample ID: 480-31593-2

Date Collected: 01/14/13 10:40

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	48	J	190	1.9	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Diethyl phthalate	ND		190	5.6	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Dimethyl phthalate	ND		190	4.8	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Di-n-butyl phthalate	ND		190	64	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Di-n-octyl phthalate	ND		190	4.3	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Fluoranthene	160	J	190	2.7	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Fluorene	92	J	190	4.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Hexachlorobenzene	ND		190	9.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Hexachlorobutadiene	ND		190	9.4	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Hexachlorocyclopentadiene	ND		190	56	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Hexachloroethane	ND		190	14	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Indeno(1,2,3-cd)pyrene	ND		190	5.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Isophorone	ND		190	9.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Naphthalene	240		190	3.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Nitrobenzene	ND		190	8.1	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
N-Nitrosodiphenylamine	ND		190	10	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Pentachlorophenol	ND		360	63	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Phenanthrene	620		190	3.9	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Phenol	ND		190	19	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Pyrene	140	J	190	1.2	ug/Kg	☼	01/16/13 14:11	01/17/13 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	93		39 - 146				01/16/13 14:11	01/17/13 12:56	1
<i>2-Fluorobiphenyl</i>	86		37 - 120				01/16/13 14:11	01/17/13 12:56	1
<i>2-Fluorophenol</i>	82		18 - 120				01/16/13 14:11	01/17/13 12:56	1
<i>Nitrobenzene-d5</i>	80		34 - 132				01/16/13 14:11	01/17/13 12:56	1
<i>Phenol-d5</i>	79		11 - 120				01/16/13 14:11	01/17/13 12:56	1
<i>p-Terphenyl-d14</i>	78		65 - 153				01/16/13 14:11	01/17/13 12:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	843		10.7	4.7	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Antimony	ND		16.1	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Arsenic	1.4	J	2.1	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Barium	5.7		0.54	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Beryllium	0.041	J	0.21	0.030	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Cadmium	0.091	J	0.21	0.032	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Calcium	816	B	53.6	3.5	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Chromium	11.3		0.54	0.21	mg/Kg	☼	01/16/13 11:45	01/18/13 10:52	1
Cobalt	0.89		0.54	0.054	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Copper	22.4		1.1	0.23	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Iron	10600	B	10.7	1.2	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Lead	6.9		1.1	0.26	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Magnesium	388		21.5	0.99	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Manganese	175	B	0.21	0.034	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Nickel	6.8		5.4	0.25	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Potassium	135		32.2	21.5	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Selenium	0.51	J	4.3	0.43	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Silver	ND		0.54	0.21	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 5

Lab Sample ID: 480-31593-2

Date Collected: 01/14/13 10:40

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	82.3	J	150	13.9	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Thallium	ND		6.4	0.32	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Vanadium	1.1		0.54	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1
Zinc	8.0	B	2.1	0.16	mg/Kg	☼	01/16/13 11:45	01/17/13 17:52	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0086	mg/Kg	☼	01/16/13 10:30	01/16/13 12:22	1



Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 6

Lab Sample ID: 480-31593-3

Date Collected: 01/14/13 11:25

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.2	0.30	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,1,2,2-Tetrachloroethane	ND		4.2	0.68	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2	0.95	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,1,2-Trichloroethane	ND		4.2	0.54	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,1-Dichloroethane	ND		4.2	0.51	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,1-Dichloroethene	ND		4.2	0.51	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2,4-Trichlorobenzene	ND		4.2	0.25	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2-Dibromo-3-Chloropropane	ND		4.2	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2-Dibromoethane	ND		4.2	0.54	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2-Dichlorobenzene	ND		4.2	0.33	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2-Dichloroethane	ND		4.2	0.21	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,2-Dichloropropane	ND		4.2	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,3-Dichlorobenzene	ND		4.2	0.22	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
1,4-Dichlorobenzene	ND		4.2	0.59	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
2-Butanone (MEK)	ND		21	1.5	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
2-Hexanone	ND		21	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		21	1.4	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Acetone	22		21	3.5	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Benzene	ND		4.2	0.20	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Bromodichloromethane	ND		4.2	0.56	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Bromoform	ND		4.2	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Bromomethane	ND		4.2	0.38	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Carbon disulfide	ND		4.2	2.1	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Carbon tetrachloride	ND		4.2	0.40	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Chlorobenzene	ND		4.2	0.55	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Chloroethane	ND		4.2	0.95	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Chloroform	ND		4.2	0.26	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Chloromethane	ND		4.2	0.25	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
cis-1,2-Dichloroethene	ND		4.2	0.54	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
cis-1,3-Dichloropropene	ND		4.2	0.60	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Cyclohexane	ND		4.2	0.59	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Dibromochloromethane	ND		4.2	0.54	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Dichlorodifluoromethane	ND		4.2	0.35	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Ethylbenzene	ND		4.2	0.29	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Isopropylbenzene	ND		4.2	0.63	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Methyl acetate	ND		4.2	0.78	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Methyl tert-butyl ether	ND		4.2	0.41	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Methylcyclohexane	ND		4.2	0.64	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Methylene Chloride	ND		4.2	1.9	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Styrene	ND		4.2	0.21	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Tetrachloroethene	ND		4.2	0.56	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Toluene	ND		4.2	0.32	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
trans-1,2-Dichloroethene	ND		4.2	0.43	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
trans-1,3-Dichloropropene	ND		4.2	1.8	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Trichloroethene	ND		4.2	0.92	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Trichlorofluoromethane	ND		4.2	0.40	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Vinyl chloride	ND		4.2	0.51	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1
Xylenes, Total	ND		8.4	0.70	ug/Kg	*	01/16/13 10:33	01/16/13 18:03	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 6

Lab Sample ID: 480-31593-3

Date Collected: 01/14/13 11:25

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 90.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		64 - 126	01/16/13 10:33	01/16/13 18:03	1
4-Bromofluorobenzene (Surr)	77		72 - 126	01/16/13 10:33	01/16/13 18:03	1
Toluene-d8 (Surr)	77		71 - 125	01/16/13 10:33	01/16/13 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	41	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,4,6-Trichlorophenol	ND		190	12	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,4-Dichlorophenol	ND		190	9.8	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,4-Dimethylphenol	ND		190	50	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,4-Dinitrophenol	ND		360	65	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,4-Dinitrotoluene	ND		190	29	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2,6-Dinitrotoluene	ND		190	46	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Chloronaphthalene	ND		190	12	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Chlorophenol	ND		190	9.5	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Methylphenol	ND		190	5.7	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Nitroaniline	ND		360	60	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
2-Nitrophenol	ND		190	8.5	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
3,3'-Dichlorobenzidine	ND	*	190	160	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
3-Nitroaniline	ND	*	360	43	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4,6-Dinitro-2-methylphenol	ND		360	64	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Bromophenyl phenyl ether	ND		190	59	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Chloro-3-methylphenol	ND		190	7.7	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Chloroaniline	ND	*	190	55	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Methylphenol	ND		360	10	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Nitroaniline	ND		360	21	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
4-Nitrophenol	ND		360	45	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Acetophenone	ND		190	9.6	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Anthracene	ND		190	4.8	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Atrazine	ND		190	8.3	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzaldehyde	36	J	190	20	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzo(a)anthracene	30	J	190	3.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzo(a)pyrene	ND		190	4.5	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzo(b)fluoranthene	33	J	190	3.6	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzo(g,h,i)perylene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Benzo(k)fluoranthene	ND		190	2.0	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Biphenyl	ND		190	12	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
bis (2-chloroisopropyl) ether	ND		190	19	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Bis(2-chloroethyl)ether	ND		190	16	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Bis(2-ethylhexyl) phthalate	ND		190	60	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Butyl benzyl phthalate	ND		190	50	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Caprolactam	ND		190	81	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Carbazole	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Chrysene	54	J	190	1.9	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 6

Lab Sample ID: 480-31593-3

Date Collected: 01/14/13 11:25

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		190	1.9	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Diethyl phthalate	ND		190	5.6	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Dimethyl phthalate	ND		190	4.9	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Di-n-butyl phthalate	ND		190	64	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Di-n-octyl phthalate	ND		190	4.4	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Fluoranthene	40	J	190	2.7	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Fluorene	ND		190	4.3	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Hexachlorobenzene	ND		190	9.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Hexachlorobutadiene	ND		190	9.5	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Hexachlorocyclopentadiene	ND		190	56	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Hexachloroethane	ND		190	14	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Indeno(1,2,3-cd)pyrene	ND		190	5.1	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Isophorone	ND		190	9.3	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Naphthalene	ND		190	3.1	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Nitrobenzene	ND		190	8.3	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
N-Nitrosodiphenylamine	ND		190	10	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Pentachlorophenol	ND		360	64	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Phenanthrene	140	J	190	3.9	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Phenol	ND		190	20	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Pyrene	33	J	190	1.2	ug/Kg	☼	01/16/13 14:11	01/17/13 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		39 - 146				01/16/13 14:11	01/17/13 13:19	1
2-Fluorobiphenyl	85		37 - 120				01/16/13 14:11	01/17/13 13:19	1
2-Fluorophenol	82		18 - 120				01/16/13 14:11	01/17/13 13:19	1
Nitrobenzene-d5	70		34 - 132				01/16/13 14:11	01/17/13 13:19	1
Phenol-d5	78		11 - 120				01/16/13 14:11	01/17/13 13:19	1
p-Terphenyl-d14	88		65 - 153				01/16/13 14:11	01/17/13 13:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1620		11.1	4.9	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Antimony	ND		16.6	0.44	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Arsenic	3.9		2.2	0.44	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Barium	14.4		0.55	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Beryllium	0.083	J	0.22	0.031	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Cadmium	0.11	J	0.22	0.033	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Calcium	1270	B	55.4	3.7	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Chromium	25.2		0.55	0.22	mg/Kg	☼	01/16/13 11:45	01/18/13 10:54	1
Cobalt	3.0		0.55	0.055	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Copper	49.4		1.1	0.23	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Iron	27400	B	11.1	1.2	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Lead	9.7		1.1	0.27	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Magnesium	468		22.2	1.0	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Manganese	383	B	0.22	0.035	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Nickel	19.2		5.5	0.25	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Potassium	247		33.2	22.2	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Selenium	0.59	J	4.4	0.44	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Silver	ND		0.55	0.22	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 6

Lab Sample ID: 480-31593-3

Date Collected: 01/14/13 11:25

Matrix: Solid

Date Received: 01/15/13 09:55

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	349		155	14.4	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Thallium	ND		6.6	0.33	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Vanadium	1.9		0.55	0.12	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1
Zinc	13.3	B	2.2	0.17	mg/Kg	☼	01/16/13 11:45	01/17/13 17:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022	0.0090	mg/Kg	☼	01/16/13 10:30	01/16/13 12:24	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: IDW-1
Date Collected: 01/14/13 17:00
Date Received: 01/15/13 09:55

Lab Sample ID: 480-31593-4
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			01/18/13 17:22	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/18/13 17:22	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/18/13 17:22	10
Chloroform	ND		0.010	0.0034	mg/L			01/18/13 17:22	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/18/13 17:22	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/18/13 17:22	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/18/13 17:22	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/18/13 17:22	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/18/13 17:22	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/18/13 17:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		01/18/13 17:22	10
Toluene-d8 (Surr)	104		71 - 126		01/18/13 17:22	10
4-Bromofluorobenzene (Surr)	98		73 - 120		01/18/13 17:22	10

Method: 8270C - TCLP Semivolatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		01/18/13 15:05	01/23/13 18:47	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		01/18/13 15:05	01/23/13 18:47	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		01/18/13 15:05	01/23/13 18:47	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		01/18/13 15:05	01/23/13 18:47	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		01/18/13 15:05	01/23/13 18:47	1
3-Methylphenol	ND		0.010	0.00040	mg/L		01/18/13 15:05	01/23/13 18:47	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		01/18/13 15:05	01/23/13 18:47	1
4-Methylphenol	ND		0.010	0.00036	mg/L		01/18/13 15:05	01/23/13 18:47	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		01/18/13 15:05	01/23/13 18:47	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		01/18/13 15:05	01/23/13 18:47	1
Pyridine	ND		0.025	0.00041	mg/L		01/18/13 15:05	01/23/13 18:47	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		01/18/13 15:05	01/23/13 18:47	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		01/18/13 15:05	01/23/13 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	118		52 - 132	01/18/13 15:05	01/23/13 18:47	1
2-Fluorobiphenyl	84		48 - 120	01/18/13 15:05	01/23/13 18:47	1
2-Fluorophenol	44		20 - 120	01/18/13 15:05	01/23/13 18:47	1
Nitrobenzene-d5	86		46 - 120	01/18/13 15:05	01/23/13 18:47	1
p-Terphenyl-d14	102		67 - 150	01/18/13 15:05	01/23/13 18:47	1
Phenol-d5	29		16 - 120	01/18/13 15:05	01/23/13 18:47	1

Method: 6010B - TCLP RCRA Metals - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042		0.010	0.0056	mg/L		01/18/13 10:20	01/21/13 19:51	1
Barium	0.41	B	0.0020	0.00070	mg/L		01/18/13 10:20	01/21/13 19:51	1
Cadmium	0.0034		0.0010	0.00050	mg/L		01/18/13 10:20	01/21/13 19:51	1
Chromium	0.18	B	0.0040	0.0010	mg/L		01/18/13 10:20	01/21/13 19:51	1
Lead	0.26		0.0050	0.0030	mg/L		01/18/13 10:20	01/21/13 19:51	1
Selenium	ND		0.015	0.0087	mg/L		01/18/13 10:20	01/21/13 19:51	1
Silver	ND		0.0030	0.0017	mg/L		01/18/13 10:20	01/21/13 19:51	1

TestAmerica Buffalo

Client Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: IDW-1

Lab Sample ID: 480-31593-4

Date Collected: 01/14/13 17:00

Matrix: Solid

Date Received: 01/15/13 09:55

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/18/13 10:50	01/18/13 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	0.0030	mg/Kg		01/17/13 17:07	01/17/13 21:15	1
Sulfide, Reactive	ND		10.0	0.57	mg/Kg		01/17/13 17:07	01/17/13 22:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			01/21/13 22:49	1
pH	9.55		0.100	0.100	SU			01/17/13 19:27	1

Surrogate Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 8260B - TCLP Volatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	BFB (73-120)	TOL (71-126)
LCS 480-100156/4	Lab Control Sample	102	106	107
MB 480-100156/5	Method Blank	106	102	109

Surrogate Legend

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

Method: 8260B - TCLP Volatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-31593-4	IDW-1	108	104	98
LB 480-100037/1-A LB	Method Blank	108	107	101

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (64-126)	BFB (72-126)	TOL (71-125)
480-31593-1	BORING 4	89	77	83
480-31593-2	BORING 5	84	79	78
480-31593-3	BORING 6	84	77	77
LCS 480-99754/5	Lab Control Sample	79	84	88
MB 480-99754/6	Method Blank	77	80	83

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
480-31593-1	BORING 4	94	87	81	75	77	91
480-31593-1 MS	BORING 4	94	88	82	83	84	80
480-31593-1 MSD	BORING 4	104	93	91	84	94	88
480-31593-2	BORING 5	93	86	82	80	79	78
480-31593-3	BORING 6	100	85	82	70	78	88

TestAmerica Buffalo

Surrogate Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
LCS 480-99850/2-A	Lab Control Sample	93	92	87	81	87	92
MB 480-99850/1-A	Method Blank	88	88	93	78	85	98

Surrogate Legend

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

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	PHL (16-120)	TPH (67-150)
LCS 480-100229/2-A	Lab Control Sample	92	86	46	85	34	87
LCS 480-100229/3-A	Lab Control Sample Dup	98	90	44	85	33	88
MB 480-100229/1-A	Method Blank	76	71	32	64	22	88

Surrogate Legend

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

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	TPH (67-150)	PHL (16-120)
480-31593-4	IDW-1	118	84	44	86	102	29
LB 480-100000/1-E LB	Method Blank	107	85	40	84	116	29

Surrogate Legend

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

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-100156/5

Matrix: Solid

Analysis Batch: 100156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/18/13 12:28	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/18/13 12:28	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/18/13 12:28	1
Benzene	ND		0.0010	0.00041	mg/L			01/18/13 12:28	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/18/13 12:28	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/18/13 12:28	1
Chloroform	ND		0.0010	0.00034	mg/L			01/18/13 12:28	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/18/13 12:28	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/18/13 12:28	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/18/13 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		01/18/13 12:28	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/18/13 12:28	1
Toluene-d8 (Surr)	109		71 - 126		01/18/13 12:28	1

Lab Sample ID: LCS 480-100156/4

Matrix: Solid

Analysis Batch: 100156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0182		mg/L		73	58 - 121
1,2-Dichloroethane	0.0250	0.0248		mg/L		99	75 - 127
Benzene	0.0250	0.0231		mg/L		92	71 - 124
Chlorobenzene	0.0250	0.0269		mg/L		108	72 - 120
Tetrachloroethene	0.0250	0.0260		mg/L		104	74 - 122
Trichloroethene	0.0250	0.0239		mg/L		96	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	107		71 - 126

Lab Sample ID: LB 480-100037/1-A LB

Matrix: Solid

Analysis Batch: 100156

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/18/13 16:59	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/18/13 16:59	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/18/13 16:59	10
Benzene	ND		0.010	0.0041	mg/L			01/18/13 16:59	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/18/13 16:59	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/18/13 16:59	10
Chloroform	ND		0.010	0.0034	mg/L			01/18/13 16:59	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/18/13 16:59	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/18/13 16:59	10

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-100037/1-A LB
Matrix: Solid
Analysis Batch: 100156

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			01/18/13 16:59	10
Surrogate	%Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137					01/18/13 16:59	10
4-Bromofluorobenzene (Surr)	101		73 - 120					01/18/13 16:59	10
Toluene-d8 (Surr)	107		71 - 126					01/18/13 16:59	10

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

Lab Sample ID: MB 480-99754/6
Matrix: Solid
Analysis Batch: 99754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			01/16/13 11:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			01/16/13 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			01/16/13 11:32	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			01/16/13 11:32	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			01/16/13 11:32	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			01/16/13 11:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			01/16/13 11:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			01/16/13 11:32	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			01/16/13 11:32	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			01/16/13 11:32	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			01/16/13 11:32	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			01/16/13 11:32	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			01/16/13 11:32	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			01/16/13 11:32	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			01/16/13 11:32	1
2-Hexanone	ND		25	2.5	ug/Kg			01/16/13 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			01/16/13 11:32	1
Acetone	ND		25	4.2	ug/Kg			01/16/13 11:32	1
Benzene	ND		5.0	0.25	ug/Kg			01/16/13 11:32	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			01/16/13 11:32	1
Bromoform	ND		5.0	2.5	ug/Kg			01/16/13 11:32	1
Bromomethane	ND		5.0	0.45	ug/Kg			01/16/13 11:32	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			01/16/13 11:32	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			01/16/13 11:32	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			01/16/13 11:32	1
Chloroethane	ND		5.0	1.1	ug/Kg			01/16/13 11:32	1
Chloroform	ND		5.0	0.31	ug/Kg			01/16/13 11:32	1
Chloromethane	ND		5.0	0.30	ug/Kg			01/16/13 11:32	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			01/16/13 11:32	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			01/16/13 11:32	1
Cyclohexane	ND		5.0	0.70	ug/Kg			01/16/13 11:32	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			01/16/13 11:32	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			01/16/13 11:32	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			01/16/13 11:32	1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: MB 480-99754/6

Matrix: Solid

Analysis Batch: 99754

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropylbenzene	ND		5.0	0.75	ug/Kg			01/16/13 11:32	1
Methyl acetate	ND		5.0	0.93	ug/Kg			01/16/13 11:32	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			01/16/13 11:32	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			01/16/13 11:32	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			01/16/13 11:32	1
Styrene	ND		5.0	0.25	ug/Kg			01/16/13 11:32	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			01/16/13 11:32	1
Toluene	ND		5.0	0.38	ug/Kg			01/16/13 11:32	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			01/16/13 11:32	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			01/16/13 11:32	1
Trichloroethene	ND		5.0	1.1	ug/Kg			01/16/13 11:32	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg			01/16/13 11:32	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			01/16/13 11:32	1
Xylenes, Total	ND		10	0.84	ug/Kg			01/16/13 11:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	77		64 - 126		01/16/13 11:32	1
4-Bromofluorobenzene (Surr)	80		72 - 126		01/16/13 11:32	1
Toluene-d8 (Surr)	83		71 - 125		01/16/13 11:32	1

Lab Sample ID: LCS 480-99754/5

Matrix: Solid

Analysis Batch: 99754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	52.8		ug/Kg		106	59 - 125
1,2-Dichlorobenzene	50.0	52.0		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	52.0		ug/Kg		104	77 - 122
Benzene	50.0	52.1		ug/Kg		104	79 - 127
Chlorobenzene	50.0	53.6		ug/Kg		107	76 - 124
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	81 - 117
Ethylbenzene	50.0	53.7		ug/Kg		107	80 - 120
Methyl tert-butyl ether	50.0	51.1		ug/Kg		102	63 - 125
Tetrachloroethene	50.0	54.7		ug/Kg		109	74 - 122
Toluene	50.0	52.7		ug/Kg		105	74 - 128
trans-1,2-Dichloroethene	50.0	52.3		ug/Kg		105	78 - 126
Trichloroethene	50.0	53.1		ug/Kg		106	77 - 129

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	79		64 - 126
4-Bromofluorobenzene (Surr)	84		72 - 126
Toluene-d8 (Surr)	88		71 - 125

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 8270C - TCLP Semivolatiles

Lab Sample ID: MB 480-100229/1-A
Matrix: Solid
Analysis Batch: 100707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		01/18/13 15:05	01/23/13 13:04	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		01/18/13 15:05	01/23/13 13:04	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		01/18/13 15:05	01/23/13 13:04	1
Pyridine	ND		0.0063	0.00010	mg/L		01/18/13 15:05	01/23/13 13:04	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		01/18/13 15:05	01/23/13 13:04	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		01/18/13 15:05	01/23/13 13:04	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		01/18/13 15:05	01/23/13 13:04	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		01/18/13 15:05	01/23/13 13:04	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		01/18/13 15:05	01/23/13 13:04	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		01/18/13 15:05	01/23/13 13:04	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		01/18/13 15:05	01/23/13 13:04	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		01/18/13 15:05	01/23/13 13:04	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		01/18/13 15:05	01/23/13 13:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		52 - 132	01/18/13 15:05	01/23/13 13:04	1
2-Fluorobiphenyl	71		48 - 120	01/18/13 15:05	01/23/13 13:04	1
2-Fluorophenol	32		20 - 120	01/18/13 15:05	01/23/13 13:04	1
Nitrobenzene-d5	64		46 - 120	01/18/13 15:05	01/23/13 13:04	1
Phenol-d5	22		16 - 120	01/18/13 15:05	01/23/13 13:04	1
p-Terphenyl-d14	88		67 - 150	01/18/13 15:05	01/23/13 13:04	1

Lab Sample ID: LCS 480-100229/2-A
Matrix: Solid
Analysis Batch: 100707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.100	0.0719		mg/L		72	32 - 120
2,4-Dinitrotoluene	0.100	0.107		mg/L		107	65 - 154
Hexachloroethane	0.100	0.0673		mg/L		67	14 - 101
Pentachlorophenol	0.100	0.0714		mg/L		71	39 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	92		52 - 132
2-Fluorobiphenyl	86		48 - 120
2-Fluorophenol	46		20 - 120
Nitrobenzene-d5	85		46 - 120
Phenol-d5	34		16 - 120
p-Terphenyl-d14	87		67 - 150

Lab Sample ID: LCSD 480-100229/3-A
Matrix: Solid
Analysis Batch: 100707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.100	0.0669		mg/L		67	32 - 120	7	36
2,4-Dinitrotoluene	0.100	0.110		mg/L		110	65 - 154	2	20

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: LCSD 480-100229/3-A

Matrix: Solid

Analysis Batch: 100707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane	0.100	0.0600		mg/L		60	14 - 101	12	46
Pentachlorophenol	0.100	0.0884		mg/L		88	39 - 136	21	37

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol	98		52 - 132
2-Fluorobiphenyl	90		48 - 120
2-Fluorophenol	44		20 - 120
Nitrobenzene-d5	85		46 - 120
Phenol-d5	33		16 - 120
p-Terphenyl-d14	88		67 - 150

Lab Sample ID: LB 480-100000/1-E LB

Matrix: Solid

Analysis Batch: 100707

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 100229

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		01/18/13 15:05	01/23/13 16:30	1
3-Methylphenol	ND		0.010	0.00040	mg/L		01/18/13 15:05	01/23/13 16:30	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		01/18/13 15:05	01/23/13 16:30	1
Pyridine	ND		0.025	0.00041	mg/L		01/18/13 15:05	01/23/13 16:30	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		01/18/13 15:05	01/23/13 16:30	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		01/18/13 15:05	01/23/13 16:30	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		01/18/13 15:05	01/23/13 16:30	1
4-Methylphenol	ND		0.010	0.00036	mg/L		01/18/13 15:05	01/23/13 16:30	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		01/18/13 15:05	01/23/13 16:30	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		01/18/13 15:05	01/23/13 16:30	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		01/18/13 15:05	01/23/13 16:30	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		01/18/13 15:05	01/23/13 16:30	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		01/18/13 15:05	01/23/13 16:30	1

Surrogate	LB %Recovery	LB Qualifier	LB Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		52 - 132	01/18/13 15:05	01/23/13 16:30	1
2-Fluorobiphenyl	85		48 - 120	01/18/13 15:05	01/23/13 16:30	1
2-Fluorophenol	40		20 - 120	01/18/13 15:05	01/23/13 16:30	1
Nitrobenzene-d5	84		46 - 120	01/18/13 15:05	01/23/13 16:30	1
Phenol-d5	29		16 - 120	01/18/13 15:05	01/23/13 16:30	1
p-Terphenyl-d14	116		67 - 150	01/18/13 15:05	01/23/13 16:30	1

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

Lab Sample ID: MB 480-99850/1-A

Matrix: Solid

Analysis Batch: 99981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		170	8.7	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		01/16/13 14:11	01/17/13 11:02	1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: MB 480-99850/1-A

Matrix: Solid

Analysis Batch: 99981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99850

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dinitrophenol	ND		330	58	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Chloronaphthalene	ND		170	11	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Chlorophenol	ND		170	8.5	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2,4,5-Trichlorophenol	ND		170	36	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Methylphenol	ND		170	5.1	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Nitroaniline	ND		330	54	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
2-Nitrophenol	ND		170	7.6	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
3-Nitroaniline	ND		330	38	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Bromophenyl phenyl ether	ND		170	53	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Chloroaniline	ND		170	49	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Methylphenol	ND		330	9.3	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Nitroaniline	ND		330	19	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
4-Nitrophenol	ND		330	40	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Acenaphthene	ND		170	2.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Acenaphthylene	ND		170	1.4	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Acetophenone	ND		170	8.6	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Anthracene	ND		170	4.3	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Atrazine	ND		170	7.4	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzaldehyde	ND		170	18	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzo(a)pyrene	ND		170	4.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzo(b)fluoranthene	ND		170	3.2	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzo(g,h,i)perylene	ND		170	2.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Benzo(k)fluoranthene	ND		170	1.8	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Biphenyl	ND		170	10	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
bis (2-chloroisopropyl) ether	ND		170	17	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Bis(2-chloroethoxy)methane	ND		170	9.1	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Bis(2-chloroethyl)ether	ND		170	14	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Caprolactam	ND		170	72	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Carbazole	ND		170	1.9	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Chrysene	ND		170	1.7	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Dibenzofuran	ND		170	1.7	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Diethyl phthalate	ND		170	5.0	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Fluoranthene	ND		170	2.4	ug/Kg		01/16/13 14:11	01/17/13 11:02	1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: MB 480-99850/1-A

Matrix: Solid

Analysis Batch: 99981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		170	3.8	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Hexachlorobutadiene	ND		170	8.5	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Hexachlorocyclopentadiene	ND		170	50	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Hexachloroethane	ND		170	13	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Indeno(1,2,3-cd)pyrene	ND		170	4.6	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Isophorone	ND		170	8.3	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Naphthalene	ND		170	2.8	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Nitrobenzene	ND		170	7.4	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
N-Nitrosodiphenylamine	ND		170	9.1	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Pentachlorophenol	ND		330	57	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Phenanthrene	ND		170	3.5	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Phenol	ND		170	18	ug/Kg		01/16/13 14:11	01/17/13 11:02	1
Pyrene	ND		170	1.1	ug/Kg		01/16/13 14:11	01/17/13 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		39 - 146	01/16/13 14:11	01/17/13 11:02	1
2-Fluorobiphenyl	88		37 - 120	01/16/13 14:11	01/17/13 11:02	1
2-Fluorophenol	93		18 - 120	01/16/13 14:11	01/17/13 11:02	1
Nitrobenzene-d5	78		34 - 132	01/16/13 14:11	01/17/13 11:02	1
Phenol-d5	85		11 - 120	01/16/13 14:11	01/17/13 11:02	1
p-Terphenyl-d14	98		65 - 153	01/16/13 14:11	01/17/13 11:02	1

Lab Sample ID: LCS 480-99850/2-A

Matrix: Solid

Analysis Batch: 99981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	3300	3760		ug/Kg		114	55 - 125
2-Chlorophenol	3300	2820		ug/Kg		85	38 - 120
4-Chloro-3-methylphenol	3300	2950		ug/Kg		89	49 - 125
4-Nitrophenol	3300	2840		ug/Kg		86	43 - 137
Acenaphthene	3300	3370		ug/Kg		102	53 - 120
Bis(2-ethylhexyl) phthalate	3300	3310		ug/Kg		100	61 - 133
Fluorene	3300	3580		ug/Kg		108	63 - 126
Hexachloroethane	3300	2240		ug/Kg		68	41 - 120
N-Nitrosodi-n-propylamine	3300	2900		ug/Kg		88	46 - 120
Pentachlorophenol	3300	2610		ug/Kg		79	33 - 136
Phenol	3300	2700		ug/Kg		82	36 - 120
Pyrene	3300	3410		ug/Kg		103	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	93		39 - 146
2-Fluorobiphenyl	92		37 - 120
2-Fluorophenol	87		18 - 120
Nitrobenzene-d5	81		34 - 132

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: LCS 480-99850/2-A
Matrix: Solid
Analysis Batch: 99981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99850

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Phenol-d5	87		11 - 120
p-Terphenyl-d14	92		65 - 153

Lab Sample ID: 480-31593-1 MS
Matrix: Solid
Analysis Batch: 99981

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99850

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
2,4-Dinitrotoluene	ND		3550	3580		ug/Kg	☼	101		55 - 125
2-Chlorophenol	ND		3550	2910		ug/Kg	☼	82		38 - 120
4-Chloro-3-methylphenol	ND		3550	3200		ug/Kg	☼	90		49 - 125
4-Nitrophenol	ND		3550	3340		ug/Kg	☼	94		43 - 137
Acenaphthene	ND		3550	3290		ug/Kg	☼	93		53 - 120
Bis(2-ethylhexyl) phthalate	ND		3550	3270		ug/Kg	☼	92		61 - 133
Fluorene	ND		3550	3520		ug/Kg	☼	99		63 - 126
Hexachloroethane	ND		3550	2320		ug/Kg	☼	66		41 - 120
N-Nitrosodi-n-propylamine	ND		3550	2900		ug/Kg	☼	82		46 - 120
Pentachlorophenol	ND		3550	2700		ug/Kg	☼	76		33 - 136
Phenol	ND		3550	3040		ug/Kg	☼	86		36 - 120
Pyrene	40	J	3550	3200		ug/Kg	☼	89		51 - 133

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	94		39 - 146
2-Fluorobiphenyl	88		37 - 120
2-Fluorophenol	82		18 - 120
Nitrobenzene-d5	83		34 - 132
Phenol-d5	84		11 - 120
p-Terphenyl-d14	80		65 - 153

Lab Sample ID: 480-31593-1 MSD
Matrix: Solid
Analysis Batch: 99981

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99850

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
2,4-Dinitrotoluene	ND		3580	3700		ug/Kg	☼	104		55 - 125	3	20
2-Chlorophenol	ND		3580	3170		ug/Kg	☼	89		38 - 120	9	25
4-Chloro-3-methylphenol	ND		3580	3350		ug/Kg	☼	94		49 - 125	4	27
4-Nitrophenol	ND		3580	3180		ug/Kg	☼	89		43 - 137	5	25
Acenaphthene	ND		3580	3540		ug/Kg	☼	99		53 - 120	7	35
Bis(2-ethylhexyl) phthalate	ND		3580	3620		ug/Kg	☼	101		61 - 133	10	15
Fluorene	ND		3580	3700		ug/Kg	☼	103		63 - 126	5	15
Hexachloroethane	ND		3580	2630		ug/Kg	☼	73		41 - 120	12	46
N-Nitrosodi-n-propylamine	ND		3580	3290		ug/Kg	☼	92		46 - 120	13	31
Pentachlorophenol	ND		3580	2810		ug/Kg	☼	78		33 - 136	4	35
Phenol	ND		3580	3340		ug/Kg	☼	93		36 - 120	9	35
Pyrene	40	J	3580	3400		ug/Kg	☼	94		51 - 133	6	35

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: 480-31593-1 MSD
Matrix: Solid
Analysis Batch: 99981

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99850

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	104		39 - 146
2-Fluorobiphenyl	93		37 - 120
2-Fluorophenol	91		18 - 120
Nitrobenzene-d5	84		34 - 132
Phenol-d5	94		11 - 120
p-Terphenyl-d14	88		65 - 153

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-99805/1-A
Matrix: Solid
Analysis Batch: 100139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99805

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		9.9	4.4	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Antimony	ND		14.9	0.40	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Arsenic	ND		2.0	0.40	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Barium	ND		0.50	0.11	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Beryllium	ND		0.20	0.028	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Cadmium	ND		0.20	0.030	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Calcium	6.09	J	49.7	3.3	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Cobalt	ND		0.50	0.050	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Copper	ND		0.99	0.21	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Iron	2.77	J	9.9	1.1	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Lead	ND		0.99	0.24	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Magnesium	ND		19.9	0.92	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Manganese	0.0983	J	0.20	0.032	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Nickel	ND		5.0	0.23	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Potassium	ND		29.8	19.9	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Selenium	ND		4.0	0.40	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Silver	ND		0.50	0.20	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Sodium	ND		139	12.9	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Thallium	ND		6.0	0.30	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Vanadium	ND		0.50	0.11	mg/Kg		01/16/13 11:45	01/17/13 17:32	1
Zinc	0.261	J	2.0	0.15	mg/Kg		01/16/13 11:45	01/17/13 17:32	1

Lab Sample ID: MB 480-99805/1-A
Matrix: Solid
Analysis Batch: 100179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99805

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	ND		0.50	0.20	mg/Kg		01/16/13 11:45	01/18/13 10:31	1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: LCSSRM 480-99805/2-A

Matrix: Solid

Analysis Batch: 100139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99805

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8350	6583		mg/Kg		78.8	40.4 - 159.1
Antimony	92.8	72.64		mg/Kg		78.3	8.2 - 191.6
Arsenic	94.4	95.87		mg/Kg		101.5	82.2 - 117.5
Barium	166	152.1		mg/Kg		91.7	83.1 - 116.3
Beryllium	52.5	53.73		mg/Kg		102.3	83.8 - 116.2
Cadmium	59.8	60.77		mg/Kg		101.6	84.0 - 115.9
Calcium	6150	6335		mg/Kg		102.9	82.3 - 117.5
Cobalt	101	108.9		mg/Kg		108.0	83.8 - 115.8
Copper	77.9	79.64		mg/Kg		102.2	83.7 - 116.2
Iron	12800	10190		mg/Kg		79.7	50.6 - 149.2
Lead	91.6	95.94		mg/Kg		104.7	82.4 - 117.8
Magnesium	3030	2795		mg/Kg		92.3	76.2 - 123.8
Manganese	283	285.1		mg/Kg		100.8	81.6 - 118.0
Nickel	56.5	60.99		mg/Kg		107.9	82.2 - 117.8
Potassium	3820	3433		mg/Kg		90.0	73.6 - 126.4
Selenium	159	162.7		mg/Kg		102.4	79.2 - 120.8
Silver	33.9	35.13		mg/Kg		103.7	66.4 - 133.9
Sodium	651	645.3		mg/Kg		99.1	73.6 - 126.2
Thallium	119	125.3		mg/Kg		105.4	81.1 - 119.3
Vanadium	56.2	52.73		mg/Kg		93.8	72.8 - 127.2
Zinc	137	143.5		mg/Kg		104.9	81.0 - 119.0

Lab Sample ID: LCSSRM 480-99805/2-A

Matrix: Solid

Analysis Batch: 100179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99805

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	69.2	66.80		mg/Kg		96.5	81.4 - 118.6

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: 480-31593-1 MS

Matrix: Solid

Analysis Batch: 100139

Client Sample ID: BORING 4

Prep Type: Total/NA

Prep Batch: 99805

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Aluminum	937		2150	4181	F	mg/Kg	☼	151	75 - 125	
Antimony	ND		43.0	36.54		mg/Kg	☼	85	75 - 125	
Arsenic	6.9		43.0	43.47		mg/Kg	☼	85	75 - 125	
Barium	34.8		43.0	68.46		mg/Kg	☼	78	75 - 125	
Beryllium	0.042	J	43.0	41.33		mg/Kg	☼	96	75 - 125	
Cadmium	0.16	J	43.0	40.83		mg/Kg	☼	95	75 - 125	
Calcium	2140	B	2150	3852		mg/Kg	☼	80	75 - 125	
Cobalt	4.8		43.0	45.18		mg/Kg	☼	94	75 - 125	
Copper	194		43.0	82.94	4	mg/Kg	☼	-259	75 - 125	
Iron	54200	B	2150	23600	4	mg/Kg	☼	-1424	75 - 125	
Lead	11.0		43.0	53.62		mg/Kg	☼	99	75 - 125	
Magnesium	623		2150	2734		mg/Kg	☼	98	75 - 125	
Manganese	555	B	43.0	458.4	4	mg/Kg	☼	-223	75 - 125	
Nickel	58.5		43.0	59.36	F	mg/Kg	☼	2	75 - 125	
Potassium	99.2		2150	2022		mg/Kg	☼	89	75 - 125	
Selenium	0.44	J	43.0	40.60		mg/Kg	☼	93	75 - 125	
Silver	0.30	J	10.8	11.71		mg/Kg	☼	106	75 - 125	
Sodium	373		2160	2444		mg/Kg	☼	96	75 - 125	
Thallium	ND		43.0	40.52		mg/Kg	☼	94	75 - 125	
Vanadium	4.5		43.0	45.81		mg/Kg	☼	96	75 - 125	
Zinc	13.8	B	43.0	55.87		mg/Kg	☼	98	75 - 125	

Lab Sample ID: 480-31593-1 MS

Matrix: Solid

Analysis Batch: 100179

Client Sample ID: BORING 4

Prep Type: Total/NA

Prep Batch: 99805

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chromium	75.4		43.0	72.11	F	mg/Kg	☼	-8	75 - 125	

Lab Sample ID: 480-31593-1 MSD

Matrix: Solid

Analysis Batch: 100139

Client Sample ID: BORING 4

Prep Type: Total/NA

Prep Batch: 99805

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Aluminum	937		2150	4351	F	mg/Kg	☼	159	75 - 125	4	20	
Antimony	ND		43.0	37.75		mg/Kg	☼	88	75 - 125	3	20	
Arsenic	6.9		43.0	45.39		mg/Kg	☼	90	75 - 125	4	20	
Barium	34.8		43.0	69.80		mg/Kg	☼	81	75 - 125	2	20	
Beryllium	0.042	J	43.0	42.64		mg/Kg	☼	99	75 - 125	3	20	
Cadmium	0.16	J	43.0	41.92		mg/Kg	☼	97	75 - 125	3	20	
Calcium	2140	B	2150	3710	F	mg/Kg	☼	73	75 - 125	4	20	
Cobalt	4.8		43.0	46.58		mg/Kg	☼	97	75 - 125	3	20	
Copper	194		43.0	100.9	4	mg/Kg	☼	-217	75 - 125	20	20	
Iron	54200	B	2150	26720	4	mg/Kg	☼	-1279	75 - 125	12	20	
Lead	11.0		43.0	54.50		mg/Kg	☼	101	75 - 125	2	20	
Magnesium	623		2150	2731		mg/Kg	☼	98	75 - 125	0	20	
Manganese	555	B	43.0	468.5	4	mg/Kg	☼	-200	75 - 125	2	20	
Nickel	58.5		43.0	65.80	F	mg/Kg	☼	17	75 - 125	10	20	

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

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

Lab Sample ID: 480-31593-1 MSD
Matrix: Solid
Analysis Batch: 100139

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99805

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Potassium	99.2		2150	2024		mg/Kg	✱	89	75 - 125	0	20
Selenium	0.44	J	43.0	42.59		mg/Kg	✱	98	75 - 125	5	20
Silver	0.30	J	10.8	11.77		mg/Kg	✱	107	75 - 125	1	20
Sodium	373		2150	2440		mg/Kg	✱	96	75 - 125	0	20
Thallium	ND		43.0	41.09		mg/Kg	✱	96	75 - 125	1	20
Vanadium	4.5		43.0	46.99		mg/Kg	✱	99	75 - 125	3	20
Zinc	13.8	B	43.0	57.83		mg/Kg	✱	102	75 - 125	3	20

Lab Sample ID: 480-31593-1 MSD
Matrix: Solid
Analysis Batch: 100179

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99805

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chromium	75.4		43.0	71.73	F	mg/Kg	✱	-9	75 - 125	1	20

Method: 6010B - TCLP RCRA Metals

Lab Sample ID: MB 480-100155/2-A
Matrix: Solid
Analysis Batch: 100510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100155

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		01/18/13 10:20	01/21/13 19:47	1
Barium	ND		0.0020	0.00070	mg/L		01/18/13 10:20	01/21/13 19:47	1
Cadmium	ND		0.0010	0.00050	mg/L		01/18/13 10:20	01/21/13 19:47	1
Chromium	ND		0.0040	0.0010	mg/L		01/18/13 10:20	01/21/13 19:47	1
Lead	ND		0.0050	0.0030	mg/L		01/18/13 10:20	01/21/13 19:47	1
Selenium	ND		0.015	0.0087	mg/L		01/18/13 10:20	01/21/13 19:47	1
Silver	ND		0.0030	0.0017	mg/L		01/18/13 10:20	01/21/13 19:47	1

Lab Sample ID: LCS 480-100155/3-A
Matrix: Solid
Analysis Batch: 100510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100155

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Arsenic	1.00	1.18		mg/L		118	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Cadmium	1.00	1.11		mg/L		111	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Lead	1.00	1.08		mg/L		108	80 - 120
Selenium	1.00	1.18		mg/L		118	80 - 120
Silver	1.00	1.12		mg/L		112	80 - 120

Lab Sample ID: LB 480-100000/1-B LB
Matrix: Solid
Analysis Batch: 100510

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 100155

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010	0.0056	mg/L		01/18/13 10:20	01/21/13 19:40	1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 6010B - TCLP RCRA Metals (Continued)

Lab Sample ID: LB 480-100000/1-B LB
Matrix: Solid
Analysis Batch: 100510

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 100155

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0309		0.0020	0.00070	mg/L		01/18/13 10:20	01/21/13 19:40	1
Cadmium	ND		0.0010	0.00050	mg/L		01/18/13 10:20	01/21/13 19:40	1
Chromium	0.00202	J	0.0040	0.0010	mg/L		01/18/13 10:20	01/21/13 19:40	1
Lead	ND		0.0050	0.0030	mg/L		01/18/13 10:20	01/21/13 19:40	1
Selenium	ND		0.015	0.0087	mg/L		01/18/13 10:20	01/21/13 19:40	1
Silver	ND		0.0030	0.0017	mg/L		01/18/13 10:20	01/21/13 19:40	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-100162/2-A
Matrix: Solid
Analysis Batch: 100227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/18/13 10:50	01/18/13 14:04	1

Lab Sample ID: LCS 480-100162/3-A
Matrix: Solid
Analysis Batch: 100227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100162

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

Lab Sample ID: LB 480-100000/1-C LB
Matrix: Solid
Analysis Batch: 100227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 100162

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/18/13 10:50	01/18/13 14:02	1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-99795/1-A
Matrix: Solid
Analysis Batch: 99836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0081	mg/Kg		01/16/13 10:30	01/16/13 12:12	1

Lab Sample ID: LCSSRM 480-99795/2-A
Matrix: Solid
Analysis Batch: 99836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99795

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	3.77	2.59		mg/Kg		68.7	50.9 - 149.
							1

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-31593-1 MS
Matrix: Solid
Analysis Batch: 99836

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.341	0.326		mg/Kg	☼	95	75 - 125

Lab Sample ID: 480-31593-1 MSD
Matrix: Solid
Analysis Batch: 99836

Client Sample ID: BORING 4
Prep Type: Total/NA
Prep Batch: 99795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.336	0.326		mg/Kg	☼	97	75 - 125	0	20

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

Lab Sample ID: LCS 480-100467/1
Matrix: Solid
Analysis Batch: 100467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-100079/1-A
Matrix: Solid
Analysis Batch: 100096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10.0	0.0030	mg/Kg		01/17/13 17:07	01/17/13 21:15	1

Lab Sample ID: LCS 480-100079/2-A
Matrix: Solid
Analysis Batch: 100096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	553.7		mg/Kg		55	10 - 100

Lab Sample ID: 480-31593-4 DU
Matrix: Solid
Analysis Batch: 100096

Client Sample ID: IDW-1
Prep Type: Total/NA
Prep Batch: 100079

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

TestAmerica Buffalo

QC Sample Results

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-100080/1-A
Matrix: Solid
Analysis Batch: 100098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10.0	0.57	mg/Kg		01/17/13 17:07	01/17/13 22:45	1

Lab Sample ID: LCS 480-100080/2-A
Matrix: Solid
Analysis Batch: 100098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	781.5		mg/Kg		78	10 - 100

Lab Sample ID: 480-31593-4 DU
Matrix: Solid
Analysis Batch: 100098

Client Sample ID: IDW-1
Prep Type: Total/NA
Prep Batch: 100080

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

Method: 9045C - pH

Lab Sample ID: LCS 480-100094/1
Matrix: Solid
Analysis Batch: 100094

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.040		SU		101	99 - 101

QC Association Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

GC/MS VOA

Analysis Batch: 99754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	8260B	99801
480-31593-2	BORING 5	Total/NA	Solid	8260B	99801
480-31593-3	BORING 6	Total/NA	Solid	8260B	99801
LCS 480-99754/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-99754/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 99801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	5035	
480-31593-2	BORING 5	Total/NA	Solid	5035	
480-31593-3	BORING 6	Total/NA	Solid	5035	

Leach Batch: 100037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	1311	
LB 480-100037/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 100156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	8260B	100037
LB 480-100037/1-A LB	Method Blank	TCLP	Solid	8260B	100037
LCS 480-100156/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-100156/5	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 99850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	3550B	
480-31593-1 MS	BORING 4	Total/NA	Solid	3550B	
480-31593-1 MSD	BORING 4	Total/NA	Solid	3550B	
480-31593-2	BORING 5	Total/NA	Solid	3550B	
480-31593-3	BORING 6	Total/NA	Solid	3550B	
LCS 480-99850/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-99850/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 99981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	8270C	99850
480-31593-1 MS	BORING 4	Total/NA	Solid	8270C	99850
480-31593-1 MSD	BORING 4	Total/NA	Solid	8270C	99850
480-31593-2	BORING 5	Total/NA	Solid	8270C	99850
480-31593-3	BORING 6	Total/NA	Solid	8270C	99850
LCS 480-99850/2-A	Lab Control Sample	Total/NA	Solid	8270C	99850
MB 480-99850/1-A	Method Blank	Total/NA	Solid	8270C	99850

Leach Batch: 100000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	1311	
LB 480-100000/1-E LB	Method Blank	TCLP	Solid	1311	

TestAmerica Buffalo

QC Association Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

GC/MS Semi VOA (Continued)

Prep Batch: 100229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	3510C	100000
LB 480-100000/1-E LB	Method Blank	TCLP	Solid	3510C	100000
LCS 480-100229/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-100229/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	
MB 480-100229/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 100707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	8270C	100229
LB 480-100000/1-E LB	Method Blank	TCLP	Solid	8270C	100229
LCS 480-100229/2-A	Lab Control Sample	Total/NA	Solid	8270C	100229
LCSD 480-100229/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	100229
MB 480-100229/1-A	Method Blank	Total/NA	Solid	8270C	100229

Metals

Prep Batch: 99795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	7471A	
480-31593-1 MS	BORING 4	Total/NA	Solid	7471A	
480-31593-1 MSD	BORING 4	Total/NA	Solid	7471A	
480-31593-2	BORING 5	Total/NA	Solid	7471A	
480-31593-3	BORING 6	Total/NA	Solid	7471A	
LCSSRM 480-99795/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-99795/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 99805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	3050B	
480-31593-1 MS	BORING 4	Total/NA	Solid	3050B	
480-31593-1 MSD	BORING 4	Total/NA	Solid	3050B	
480-31593-2	BORING 5	Total/NA	Solid	3050B	
480-31593-3	BORING 6	Total/NA	Solid	3050B	
LCSSRM 480-99805/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-99805/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 99836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	7471A	99795
480-31593-1 MS	BORING 4	Total/NA	Solid	7471A	99795
480-31593-1 MSD	BORING 4	Total/NA	Solid	7471A	99795
480-31593-2	BORING 5	Total/NA	Solid	7471A	99795
480-31593-3	BORING 6	Total/NA	Solid	7471A	99795
LCSSRM 480-99795/2-A	Lab Control Sample	Total/NA	Solid	7471A	99795
MB 480-99795/1-A	Method Blank	Total/NA	Solid	7471A	99795

Leach Batch: 100000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	1311	
LB 480-100000/1-B LB	Method Blank	TCLP	Solid	1311	

TestAmerica Buffalo

QC Association Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Metals (Continued)

Leach Batch: 100000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-100000/1-C LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 100139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	6010B	99805
480-31593-1 MS	BORING 4	Total/NA	Solid	6010B	99805
480-31593-1 MSD	BORING 4	Total/NA	Solid	6010B	99805
480-31593-2	BORING 5	Total/NA	Solid	6010B	99805
480-31593-3	BORING 6	Total/NA	Solid	6010B	99805
LCSSRM 480-99805/2-A	Lab Control Sample	Total/NA	Solid	6010B	99805
MB 480-99805/1-A	Method Blank	Total/NA	Solid	6010B	99805

Prep Batch: 100155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	3010A	100000
LB 480-100000/1-B LB	Method Blank	TCLP	Solid	3010A	100000
LCS 480-100155/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-100155/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 100162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	7470A	100000
LB 480-100000/1-C LB	Method Blank	TCLP	Solid	7470A	100000
LCS 480-100162/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-100162/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 100179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	6010B	99805
480-31593-1 MS	BORING 4	Total/NA	Solid	6010B	99805
480-31593-1 MSD	BORING 4	Total/NA	Solid	6010B	99805
480-31593-2	BORING 5	Total/NA	Solid	6010B	99805
480-31593-3	BORING 6	Total/NA	Solid	6010B	99805
LCSSRM 480-99805/2-A	Lab Control Sample	Total/NA	Solid	6010B	99805
MB 480-99805/1-A	Method Blank	Total/NA	Solid	6010B	99805

Analysis Batch: 100227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	7470A	100162
LB 480-100000/1-C LB	Method Blank	TCLP	Solid	7470A	100162
LCS 480-100162/3-A	Lab Control Sample	Total/NA	Solid	7470A	100162
MB 480-100162/2-A	Method Blank	Total/NA	Solid	7470A	100162

Analysis Batch: 100510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	TCLP	Solid	6010B	100155
LB 480-100000/1-B LB	Method Blank	TCLP	Solid	6010B	100155
LCS 480-100155/3-A	Lab Control Sample	Total/NA	Solid	6010B	100155
MB 480-100155/2-A	Method Blank	Total/NA	Solid	6010B	100155

TestAmerica Buffalo

QC Association Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

General Chemistry

Analysis Batch: 100021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-1	BORING 4	Total/NA	Solid	Moisture	
480-31593-2	BORING 5	Total/NA	Solid	Moisture	
480-31593-3	BORING 6	Total/NA	Solid	Moisture	

Prep Batch: 100079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	7.3.3	
480-31593-4 DU	IDW-1	Total/NA	Solid	7.3.3	
LCS 480-100079/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
MB 480-100079/1-A	Method Blank	Total/NA	Solid	7.3.3	

Prep Batch: 100080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	7.3.4	
480-31593-4 DU	IDW-1	Total/NA	Solid	7.3.4	
LCS 480-100080/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 480-100080/1-A	Method Blank	Total/NA	Solid	7.3.4	

Analysis Batch: 100094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	9045C	
LCS 480-100094/1	Lab Control Sample	Total/NA	Solid	9045C	

Analysis Batch: 100096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	9012	100079
480-31593-4 DU	IDW-1	Total/NA	Solid	9012	100079
LCS 480-100079/2-A	Lab Control Sample	Total/NA	Solid	9012	100079
MB 480-100079/1-A	Method Blank	Total/NA	Solid	9012	100079

Analysis Batch: 100098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	9034	100080
480-31593-4 DU	IDW-1	Total/NA	Solid	9034	100080
LCS 480-100080/2-A	Lab Control Sample	Total/NA	Solid	9034	100080
MB 480-100080/1-A	Method Blank	Total/NA	Solid	9034	100080

Analysis Batch: 100467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-31593-4	IDW-1	Total/NA	Solid	1010	
LCS 480-100467/1	Lab Control Sample	Total/NA	Solid	1010	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: BORING 4

Date Collected: 01/14/13 10:00

Date Received: 01/15/13 09:55

Lab Sample ID: 480-31593-1

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			99801	01/16/13 10:33	JMB	TAL BUF
Total/NA	Analysis	8260B		1	99754	01/16/13 17:12	JMB	TAL BUF
Total/NA	Prep	3550B			99850	01/16/13 14:11	ND	TAL BUF
Total/NA	Analysis	8270C		1	99981	01/17/13 12:33	RMM	TAL BUF
Total/NA	Prep	3050B			99805	01/16/13 11:45	JM	TAL BUF
Total/NA	Analysis	6010B		1	100139	01/17/13 17:36	LH	TAL BUF
Total/NA	Analysis	6010B		1	100179	01/18/13 10:36	LH	TAL BUF
Total/NA	Prep	7471A			99795	01/16/13 10:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	99836	01/16/13 12:15	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	100021	01/17/13 12:31	KK	TAL BUF

Client Sample ID: BORING 5

Date Collected: 01/14/13 10:40

Date Received: 01/15/13 09:55

Lab Sample ID: 480-31593-2

Matrix: Solid

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			99801	01/16/13 10:33	JMB	TAL BUF
Total/NA	Analysis	8260B		1	99754	01/16/13 17:38	JMB	TAL BUF
Total/NA	Prep	3550B			99850	01/16/13 14:11	ND	TAL BUF
Total/NA	Analysis	8270C		1	99981	01/17/13 12:56	RMM	TAL BUF
Total/NA	Prep	3050B			99805	01/16/13 11:45	JM	TAL BUF
Total/NA	Analysis	6010B		1	100139	01/17/13 17:52	LH	TAL BUF
Total/NA	Analysis	6010B		1	100179	01/18/13 10:52	LH	TAL BUF
Total/NA	Prep	7471A			99795	01/16/13 10:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	99836	01/16/13 12:22	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	100021	01/17/13 12:31	KK	TAL BUF

Client Sample ID: BORING 6

Date Collected: 01/14/13 11:25

Date Received: 01/15/13 09:55

Lab Sample ID: 480-31593-3

Matrix: Solid

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			99801	01/16/13 10:33	JMB	TAL BUF
Total/NA	Analysis	8260B		1	99754	01/16/13 18:03	JMB	TAL BUF
Total/NA	Prep	3550B			99850	01/16/13 14:11	ND	TAL BUF
Total/NA	Analysis	8270C		1	99981	01/17/13 13:19	RMM	TAL BUF
Total/NA	Prep	3050B			99805	01/16/13 11:45	JM	TAL BUF
Total/NA	Analysis	6010B		1	100139	01/17/13 17:54	LH	TAL BUF
Total/NA	Analysis	6010B		1	100179	01/18/13 10:54	LH	TAL BUF
Total/NA	Prep	7471A			99795	01/16/13 10:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	99836	01/16/13 12:24	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	100021	01/17/13 12:31	KK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Client Sample ID: IDW-1

Lab Sample ID: 480-31593-4

Date Collected: 01/14/13 17:00

Matrix: Solid

Date Received: 01/15/13 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100037	01/17/13 14:16	DE	TAL BUF
TCLP	Analysis	8260B		10	100156	01/18/13 17:22	JMB	TAL BUF
TCLP	Leach	1311			100000	01/17/13 10:53	DE	TAL BUF
TCLP	Prep	3510C			100229	01/18/13 15:05	TG	TAL BUF
TCLP	Analysis	8270C		1	100707	01/23/13 18:47	RMM	TAL BUF
TCLP	Leach	1311			100000	01/17/13 10:53	DE	TAL BUF
TCLP	Prep	7470A			100162	01/18/13 10:50	JRK	TAL BUF
TCLP	Analysis	7470A		1	100227	01/18/13 14:08	JRK	TAL BUF
TCLP	Prep	3010A			100155	01/18/13 10:20	SS	TAL BUF
TCLP	Analysis	6010B		1	100510	01/21/13 19:51	LH	TAL BUF
Total/NA	Analysis	9045C		1	100094	01/17/13 19:27	JB	TAL BUF
Total/NA	Prep	7.3.3			100079	01/17/13 17:07	LAW	TAL BUF
Total/NA	Analysis	9012		1	100096	01/17/13 21:15	LAW	TAL BUF
Total/NA	Prep	7.3.4			100080	01/17/13 17:07	LAW	TAL BUF
Total/NA	Analysis	9034		1	100098	01/17/13 22:45	LAW	TAL BUF
Total/NA	Analysis	1010		1	100467	01/21/13 22:49	JB	TAL BUF

Laboratory References:

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

Certification Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAP	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8260B	TCLP Volatiles	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	TCLP Semivolatiles	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
6010B	TCLP RCRA Metals	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
7471A	Mercury (CVAA)	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045C	pH	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: AECOM, Inc.
Project/Site: AVOX project

TestAmerica Job ID: 480-31593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-31593-1	BORING 4	Solid	01/14/13 10:00	01/15/13 09:55
480-31593-2	BORING 5	Solid	01/14/13 10:40	01/15/13 09:55
480-31593-3	BORING 6	Solid	01/14/13 11:25	01/15/13 09:55
480-31593-4	IDW-1	Solid	01/14/13 17:00	01/15/13 09:55

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Chain of Custody Record

Temperature on Receipt Yes No

Drinking Water? Yes No

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record
TAL-1124 (1/007)

Client: **AECOM** Project Manager: **Dino Zack** Date: **1/14/13** Chain of Custody Number: **241348**

Address: **100 Corporate Pkwy, Suite 341** Telephone Number (Area Code)/Fax Number: **716-836-4506** Lab Number: **Buff** Page **1** of **1**

City: **Amhurst** State: **NY** Zip Code: **14226** Lab Contact: **B. Fisher**

Project Name and Location (State): **AVOX Plant 2** Carrier/Hubbill Number: **D.Zack**

Contract/Purchase Order/Quote No. **Plant 2**

Special Instructions/Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	
			Air	Soil	Soil	Water	Sludge	GC/MS	GC	GC/MS	GC	GC/MS		
Boring 4	1/14/13	1000h		X										VOC (8260)
Boring 5	1/14/13	1040h		Y										SUOC (8270)
Boring 6	1/14/13	1125h		X										5UOC (8270)
Bo TDW-1	1/14/13	1720h		Y										7CLP-8260h

Possible Hazard Identification: Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown

Sample Disposal: Return To Client, Other: **STD**

Turn Around Time Required: 24 Hours, 48 Hours, 7 Days, 14 Days, 21 Days

1. Relinquished By: **D.J. [Signature]** Date: **1/15/13** Time: **0855**

2. Relinquished By: **[Signature]** Date: **1/15/13** Time: **0855**

3. Relinquished By: **[Signature]** Date: **1/15/13** Time: **0855**

Comments: **1,6#2**

Disposal By Lab: Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

GC Requirements (Specify)

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-31593-1

Login Number: 31593

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

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