

ANALYTICAL REPORT

Job Number: 460-39379-1

Job Description: Site No: 130050 DEC Hempstead 206

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, NY 12233
Attention: Mr. David Gardner



Approved for release.
Larry Decker
Project Manager I
5/2/2012 10:50 PM

Larry Decker
Project Manager I
larry.decker@testamericainc.com
05/02/2012

cc: Mr. Greg Mann
Mrs. Tracy Salvitti
Ms. Karen Sanford

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

A handwritten signature in black ink, appearing to be 'LD', written over a horizontal line.

Approved for release.
Larry Decker
Project Manager I
5/2/2012 10:50 PM

Larry Decker

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Job Narrative
460-39379-1

Comments

No additional comments.

Receipt

The samples were received on 4/20/2012 8:05 PM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.10 C.

GC/MS VOA

Method(s) 624: The matrix spike / matrix spike duplicate (MS/MSD) %RPD for batch 110351-1 was outside control limits for 2-Chloroethyl vinyl ether due to sample preservation.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-39379-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-39379-1 Tetrachloroethene	EW-1	17		1.0	ug/L	624
460-39379-2 Chloroform	EW-2	0.15	J	1.0	ug/L	624
Trichloroethene		0.16	J	1.0	ug/L	624
Tetrachloroethene		51		1.0	ug/L	624
460-39379-3 Manganese	AS	13.2	J	15.0	ug/L	6010B

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-39379-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL EDI	40CFR136A 624	
Metals (ICP)	TAL EDI	SW846 6010B	
Preparation, Total Metals	TAL EDI		SW846 3010A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-39379-1

Method	Analyst	Analyst ID
40CFR136A 624	Moroney, Christopher J	CJM
SW846 6010B	Chang, Churn Der	CDC

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-39379-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-39379-1	EW-1	Water	04/19/2012 1200	04/20/2012 2005
460-39379-2	EW-2	Water	04/19/2012 1155	04/20/2012 2005
460-39379-3	AS	Water	04/19/2012 1150	04/20/2012 2005

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-39379-1

Client Sample ID: EW-1

Lab Sample ID: 460-39379-1

Date Sampled: 04/19/2012 1200

Client Matrix: Water

Date Received: 04/20/2012 2005

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-110351	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f87897.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/24/2012 1202		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	1.0	U	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	17		0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene	103		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-39379-1

Client Sample ID: EW-2

Lab Sample ID: 460-39379-2

Date Sampled: 04/19/2012 1155

Client Matrix: Water

Date Received: 04/20/2012 2005

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-110351	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f87898.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/24/2012 1224		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	0.15	J	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	0.16	J	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	51		0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene	102		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-39379-1

Client Sample ID: AS

Lab Sample ID: 460-39379-3

Date Sampled: 04/19/2012 1150

Client Matrix: Water

Date Received: 04/20/2012 2005

624 Volatile Organic Compounds (GC/MS)

Analysis Method: 624	Analysis Batch: 460-110351	Instrument ID: VOAMS6
N/A	Prep Batch: N/A	Lab File ID: f87899.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/24/2012 1246		Final Weight/Volume: 5 mL
Prep Date: N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	1.0	U	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	101		70 - 130

Analytical Data

Client: New York State D.E.C.

Job Number: 460-39379-1

Client Sample ID: AS

Lab Sample ID: 460-39379-3

Date Sampled: 04/19/2012 1150

Client Matrix: Water

Date Received: 04/20/2012 2005

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 460-110618

Instrument ID: ICP4

Prep Method: 3010A

Prep Batch: 460-110509

Lab File ID: 04252012A.asc

Dilution: 1.0

Initial Weight/Volume: 100 mL

Analysis Date: 04/25/2012 2130

Final Weight/Volume: 100 mL

Prep Date: 04/25/2012 1034

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	150	U	73.6	150
Manganese	13.2	J	4.3	15.0

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-39379-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-39379-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-110351					
LCS 460-110351/3	Lab Control Sample	T	Water	624	
MB 460-110351/4	Method Blank	T	Water	624	
460-39379-1	EW-1	T	Water	624	
460-39379-2	EW-2	T	Water	624	
460-39379-3	AS	T	Water	624	

Report Basis

T = Total

Metals

Prep Batch: 460-110509					
LCS 460-110509/2-A	Lab Control Sample	T	Water	3010A	
MB 460-110509/1-A	Method Blank	T	Water	3010A	
460-39379-3	AS	T	Water	3010A	
Analysis Batch:460-110618					
LCS 460-110509/2-A	Lab Control Sample	T	Water	6010B	460-110509
MB 460-110509/1-A	Method Blank	T	Water	6010B	460-110509
460-39379-3	AS	T	Water	6010B	460-110509

Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-39379-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
460-39379-1	EW-1	102	96	103
460-39379-2	EW-2	100	96	102
460-39379-3	AS	106	97	101
MB 460-110351/4		103	96	103
LCS 460-110351/3		103	98	100

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-39379-1

Method Blank - Batch: 460-110351

Method: 624

Preparation: N/A

Lab Sample ID: MB 460-110351/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/24/2012 0906
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 460-110351
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: VOAMS6
 Lab File ID: f87889.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.18	1.0
Vinyl chloride	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.17	1.0
Methylene Chloride	1.0	U	0.18	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
1,1-Dichloroethene	1.0	U	0.090	1.0
1,1-Dichloroethane	1.0	U	0.13	1.0
trans-1,2-Dichloroethene	1.0	U	0.13	1.0
cis-1,2-Dichloroethene	1.0	U	0.18	1.0
Chloroform	1.0	U	0.080	1.0
1,2-Dichloroethane	1.0	U	0.19	1.0
1,1,1-Trichloroethane	1.0	U	0.060	1.0
Carbon tetrachloride	1.0	U	0.060	1.0
Bromodichloromethane	1.0	U	0.12	1.0
1,2-Dichloropropane	1.0	U	0.090	1.0
cis-1,3-Dichloropropene	1.0	U	0.18	1.0
Trichloroethene	1.0	U	0.090	1.0
Dibromochloromethane	1.0	U	0.20	1.0
1,1,2-Trichloroethane	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.24	1.0
2-Chloroethyl vinyl ether	1.0	U	0.34	1.0
Bromoform	1.0	U	0.19	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.16	1.0
Chlorobenzene	1.0	U	0.11	1.0
1,3-Dichlorobenzene	1.0	U	0.14	1.0
1,4-Dichlorobenzene	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
Dichlorodifluoromethane	1.0	U	0.22	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 130
Toluene-d8 (Surr)	96	70 - 130
4-Bromofluorobenzene	103	70 - 130

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-39379-1

Lab Control Sample - Batch: 460-110351

Method: 624

Preparation: N/A

Lab Sample ID:	LCS 460-110351/3	Analysis Batch:	460-110351	Instrument ID:	VOAMS6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	f87886.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/24/2012 0740	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	20.0	22.2	111	0 - 273	
Bromomethane	20.0	28.0	140	0 - 242	
Vinyl chloride	20.0	21.5	107	0 - 251	
Chloroethane	20.0	23.8	119	14 - 230	
Methylene Chloride	20.0	19.5	97	0 - 221	
Trichlorofluoromethane	20.0	26.9	134	17 - 181	
1,1-Dichloroethene	20.0	21.5	107	0 - 234	
1,1-Dichloroethane	20.0	19.7	99	59 - 155	
trans-1,2-Dichloroethene	20.0	20.6	103	54 - 156	
cis-1,2-Dichloroethene	20.0	20.2	101	80 - 120	
Chloroform	20.0	21.5	107	51 - 138	
1,2-Dichloroethane	20.0	22.1	111	49 - 155	
1,1,1-Trichloroethane	20.0	21.9	110	52 - 162	
Carbon tetrachloride	20.0	23.5	117	70 - 140	
Bromodichloromethane	20.0	21.2	106	35 - 155	
1,2-Dichloropropane	20.0	18.2	91	0 - 210	
cis-1,3-Dichloropropene	20.0	18.9	94	0 - 227	
Trichloroethene	20.0	20.7	104	71 - 157	
Dibromochloromethane	20.0	22.2	111	53 - 149	
1,1,2-Trichloroethane	20.0	19.5	98	52 - 150	
trans-1,3-Dichloropropene	20.0	19.1	96	17 - 183	
2-Chloroethyl vinyl ether	20.0	16.5	83	0 - 305	
Bromoform	20.0	24.5	123	45 - 169	
Tetrachloroethene	20.0	22.2	111	64 - 148	
1,1,2,2-Tetrachloroethane	20.0	18.5	92	46 - 157	
Chlorobenzene	20.0	20.3	101	37 - 160	
1,3-Dichlorobenzene	20.0	19.9	99	59 - 156	
1,4-Dichlorobenzene	20.0	20.2	101	18 - 190	
1,2-Dichlorobenzene	20.0	20.2	101	18 - 190	
Dichlorodifluoromethane	20.0	23.3	117	46 - 145	
<hr/>					
Surrogate		% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		103		70 - 130	
Toluene-d8 (Surr)		98		70 - 130	
4-Bromofluorobenzene		100		70 - 130	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-39379-1

Method Blank - Batch: 460-110509

Lab Sample ID: MB 460-110509/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/25/2012 2104
 Prep Date: 04/25/2012 1034
 Leach Date: N/A

Analysis Batch: 460-110618
 Prep Batch: 460-110509
 Leach Batch: N/A
 Units: ug/L

**Method: 6010B
 Preparation: 3010A**

Instrument ID: ICP4
 Lab File ID: 04252012A.asc
 Initial Weight/Volume: 100 mL
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Iron	150	U	73.6	150
Manganese	15.0	U	4.3	15.0

Lab Control Sample - Batch: 460-110509

Lab Sample ID: LCS 460-110509/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/25/2012 2054
 Prep Date: 04/25/2012 1034
 Leach Date: N/A

Analysis Batch: 460-110618
 Prep Batch: 460-110509
 Leach Batch: N/A
 Units: ug/L

**Method: 6010B
 Preparation: 3010A**

Instrument ID: ICP4
 Lab File ID: 04252012A.asc
 Initial Weight/Volume: 100 mL
 Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1000	1007	101	80 - 120	
Manganese	500	501.4	100	80 - 120	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-39379-1

Login Number: 39379
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ° C IR #50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	