

## ANALYTICAL REPORT

Job Number: 460-112888-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.  
625 Broadway 9th Floor  
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas



Approved for release.  
Shalini Williams  
Project Management Assistant II  
5/9/2016 3:42 PM

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05/09/2016

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## **CASE NARRATIVE**

**Client: New York State D.E.C.**

**Project: DEC Elmont546; Site: E130150**

**Report Number: 460-112888-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The sample was received on 4/27/2016 8:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)**

Sample Rinse water (460-112888-1) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/29/2016 and analyzed on 05/01/2016.

The continuing calibration verification (CCV) analyzed in 460-365663 was outside the method criteria for the following analyte(s): Acetophenone, N-Nitrosodi-n-propylamine, 2-Methylphenol, 4,6-Dinitro-2-methylphenol, 2-Nitroaniline, N-Nitrosodiphenylamine and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No other difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

### **METALS**

Sample Rinse water (460-112888-1) was analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 04/30/2016 and analyzed on 05/01/2016.

Iron failed the recovery criteria low for the MS of sample 460-113039-2 in batch 460-365673.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

### **TOTAL MERCURY**

Sample Rinse water (460-112888-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/29/2016.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

## EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-112888-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-112888-1</b>	<b>RINSE WATER</b>					
Aluminum		1590		200	ug/L	6010C
Barium		131	J	200	ug/L	6010C
Calcium		34500		5000	ug/L	6010C
Chromium		5.2	J	10.0	ug/L	6010C
Copper		38.4		25.0	ug/L	6010C
Iron		9460		150	ug/L	6010C
Potassium		4470	J	5000	ug/L	6010C
Magnesium		6030		5000	ug/L	6010C
Manganese		349		15.0	ug/L	6010C
Sodium		36600		5000	ug/L	6010C
Nickel		7.1	J	40.0	ug/L	6010C
Lead		195		10.0	ug/L	6010C
Zinc		183		30.0	ug/L	6010C

## METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-112888-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

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: 460-112888-1

Method	Analyst	Analyst ID
SW846 8270D	Crocco, Michael	MMC
SW846 6010C	Chang, Churn Der	CDC
SW846 7470A	Sheikh, Razia B	RBS

## SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-112888-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-112888-1	Rinse water	Water	04/26/2016 1010	04/27/2016 2000

# **SAMPLE RESULTS**

**Analytical Data**

Client: New York State D.E.C.

Job Number: 460-112888-1

**Client Sample ID: Rinse water**

Lab Sample ID: 460-112888-1

Date Sampled: 04/26/2016 1010

Client Matrix: Water

Date Received: 04/27/2016 2000

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-365663

Instrument ID: CBNAMS6

Prep Method: 3510C

Prep Batch: 460-365496

Lab File ID: M227179.D

Dilution: 1.0

Initial Weight/Volume: 240 mL

Analysis Date: 05/01/2016 1516

Final Weight/Volume: 2 mL

Prep Date: 04/29/2016 1236

Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	0.66	10
1,2,4,5-Tetrachlorobenzene	10	U	0.45	10
2,2'-oxybis[1-chloropropane]	10	U	0.97	10
2,3,4,6-Tetrachlorophenol	10	U	0.72	10
2,4,5-Trichlorophenol	10	U	0.51	10
2,4,6-Trichlorophenol	10	U	0.55	10
2,4-Dichlorophenol	10	U	0.66	10
2,4-Dimethylphenol	10	U	0.95	10
2,4-Dinitrophenol	21	U	2.5	21
2,4-Dinitrotoluene	2.1	U	1.1	2.1
2,6-Dinitrotoluene	2.1	U	0.92	2.1
2-Chloronaphthalene	10	U	0.64	10
2-Chlorophenol	10	U	0.77	10
2-Methylnaphthalene	10	U	0.92	10
2-Methylphenol	10	U	1.3	10
2-Nitroaniline	10	U	0.68	10
2-Nitrophenol	10	U	0.61	10
3,3'-Dichlorobenzidine	10	U	1.1	10
3-Nitroaniline	10	U	0.85	10
4,6-Dinitro-2-methylphenol	21	U	2.1	21
4-Bromophenyl phenyl ether	10	U	1.1	10
4-Chloro-3-methylphenol	10	U	0.79	10
4-Chloroaniline	10	U	0.76	10
4-Chlorophenyl phenyl ether	10	U	1.0	10
4-Methylphenol	10	U	0.91	10
4-Nitroaniline	10	U	0.50	10
4-Nitrophenol	21	U	4.8	21
Acenaphthene	10	U	0.92	10
Acenaphthylene	10	U	0.68	10
Acetophenone	10	U	1.1	10
Anthracene	10	U	0.59	10
Atrazine	2.1	U	0.80	2.1
Benzaldehyde	10	U	0.90	10
Benzo[a]anthracene	1.0	U	0.57	1.0
Benzo[a]pyrene	1.0	U	0.17	1.0
Benzo[b]fluoranthene	1.0	U	0.46	1.0
Benzo[g,h,i]perylene	10	U	0.78	10
Benzo[k]fluoranthene	1.0	U	0.19	1.0
Bis(2-chloroethoxy)methane	10	U	0.72	10
Bis(2-chloroethyl)ether	1.0	U	0.13	1.0
Bis(2-ethylhexyl) phthalate	2.1	U	0.75	2.1
Butyl benzyl phthalate	10	U	0.63	10
Caprolactam	10	U	1.1	10
Carbazole	10	U	0.89	10
Chrysene	2.1	U	0.70	2.1
Dibenz(a,h)anthracene	1.0	U	0.094	1.0



# Analytical Data

Client: New York State D.E.C.

Job Number: 460-112888-1

Client Sample ID: Rinse water

Lab Sample ID: 460-112888-1

Client Matrix: Water

Date Sampled: 04/26/2016 1010

Date Received: 04/27/2016 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-365663	Instrument ID:	CBNAMS6
Prep Method:	3510C	Prep Batch:	460-365496	Lab File ID:	M227179.D
Dilution:	1.0			Initial Weight/Volume:	240 mL
Analysis Date:	05/01/2016 1516			Final Weight/Volume:	2 mL
Prep Date:	04/29/2016 1236			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	0.89	10
Diethyl phthalate	10	U	1.0	10
Dimethyl phthalate	10	U	1.0	10
Di-n-butyl phthalate	10	U	0.85	10
Di-n-octyl phthalate	10	U	0.72	10
Fluoranthene	10	U	0.75	10
Fluorene	10	U	0.83	10
Hexachlorobenzene	1.0	U	0.49	1.0
Hexachlorobutadiene	1.0	U	0.79	1.0
Hexachlorocyclopentadiene	10	U	0.64	10
Hexachloroethane	1.0	U	0.094	1.0
Indeno[1,2,3-cd]pyrene	1.0	U	0.22	1.0
Isophorone	10	U	0.70	10
Naphthalene	10	U	0.83	10
Nitrobenzene	1.0	U	0.51	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.86	1.0
N-Nitrosodiphenylamine	10	U	0.77	10
Pentachlorophenol	21	U	2.3	21
Phenanthrene	10	U	0.68	10
Phenol	10	U	0.43	10
Pyrene	10	U	0.86	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	69		43 - 126	
2-Fluorobiphenyl	67		63 - 113	
2-Fluorophenol (Surr)	30		13 - 77	
Nitrobenzene-d5 (Surr)	68		62 - 120	
Phenol-d5 (Surr)	21		10 - 53	
Terphenyl-d14 (Surr)	83		57 - 125	

**Analytical Data**

Client: New York State D.E.C.

Job Number: 460-112888-1

**Client Sample ID:** Rinse water

Lab Sample ID: 460-112888-1

Client Matrix: Water

Date Sampled: 04/26/2016 1010

Date Received: 04/27/2016 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-365673

Instrument ID: ICP5

Prep Method: 3010A

Prep Batch: 460-365630

Lab File ID: 365631D1.asc

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/01/2016 1831

Final Weight/Volume: 50 mL

Prep Date: 04/30/2016 1947

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	10.0	U	1.9	10.0
Aluminum	1590		69.5	200
Arsenic	15.0	U	4.4	15.0
Barium	131	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Calcium	34500		317	5000
Cadmium	4.0	U	2.3	4.0
Cobalt	50.0	U	5.1	50.0
Chromium	5.2	J	4.5	10.0
Copper	38.4		5.0	25.0
Iron	9460		65.4	150
Potassium	4470	J	122	5000
Magnesium	6030		260	5000
Manganese	349		4.9	15.0
Sodium	36600		315	5000
Nickel	7.1	J	5.4	40.0
Lead	195		4.2	10.0
Antimony	20.0	U	4.7	20.0
Selenium	20.0	U	6.8	20.0
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	183		5.9	30.0

**7470A Mercury (CVAA)**

Analysis Method: 7470A

Analysis Batch: 460-365532

Instrument ID: LEEMAN6

Prep Method: 7470A

Prep Batch: 460-365470

Lab File ID: 365470hg.CSV

Dilution: 1.0

Initial Weight/Volume: 30 mL

Analysis Date: 04/29/2016 1432

Final Weight/Volume: 30 mL

Prep Date: 04/29/2016 1125

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

## DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-112888-1

Lab Section	Qualifier	Description
GC/MS Semi VOA	U	Analyzed for but not detected.
Metals	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL

# **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 460-365496</b>					
LCS 460-365496/2-A	Lab Control Sample	T	Water	3510C	
LCS 460-365496/4-A	Lab Control Sample	T	Water	3510C	
LCSD 460-365496/3-A	Lab Control Sample Duplicate	T	Water	3510C	
LCSD 460-365496/5-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-365496/1-A	Method Blank	T	Water	3510C	
460-112888-1	Rinse water	T	Water	3510C	
<b>Analysis Batch:460-365663</b>					
LCS 460-365496/2-A	Lab Control Sample	T	Water	8270D	460-365496
LCS 460-365496/4-A	Lab Control Sample	T	Water	8270D	460-365496
LCSD 460-365496/3-A	Lab Control Sample Duplicate	T	Water	8270D	460-365496
LCSD 460-365496/5-A	Lab Control Sample Duplicate	T	Water	8270D	460-365496
MB 460-365496/1-A	Method Blank	T	Water	8270D	460-365496
460-112888-1	Rinse water	T	Water	8270D	460-365496

#### Report Basis

T = Total

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-365470</b>					
LCS 460-365470/2-A	Lab Control Sample	T	Water	7470A	
MB 460-365470/1-A	Method Blank	T	Water	7470A	
460-112760-A-11-A DU	Duplicate	T	Water	7470A	
460-112760-D-11-B MS	Matrix Spike	T	Water	7470A	
460-112888-1	Rinse water	T	Water	7470A	
<b>Analysis Batch:460-365532</b>					
LCS 460-365470/2-A	Lab Control Sample	T	Water	7470A	460-365470
MB 460-365470/1-A	Method Blank	T	Water	7470A	460-365470
460-112760-A-11-A DU	Duplicate	T	Water	7470A	460-365470
460-112760-D-11-B MS	Matrix Spike	T	Water	7470A	460-365470
460-112888-1	Rinse water	T	Water	7470A	460-365470
<b>Prep Batch: 460-365630</b>					
LCS 460-365630/2-A	Lab Control Sample	T	Water	3010A	
MB 460-365630/1-A	Method Blank	T	Water	3010A	
460-112888-1	Rinse water	T	Water	3010A	
460-113039-D-2-B DU	Duplicate	T	Water	3010A	
460-113039-D-2-C MS	Matrix Spike	T	Water	3010A	
<b>Analysis Batch:460-365673</b>					
LCS 460-365630/2-A	Lab Control Sample	T	Water	6010C	460-365630
MB 460-365630/1-A	Method Blank	T	Water	6010C	460-365630
460-112888-1	Rinse water	T	Water	6010C	460-365630
460-113039-D-2-B DU	Duplicate	T	Water	6010C	460-365630
460-113039-D-2-C MS	Matrix Spike	T	Water	6010C	460-365630

#### Report Basis

T = Total

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
460-112888-1	Rinse water	69	67	30	68	21	83
MB 460-365496/1-A		65	69	40	70	28	108
LCS 460-365496/2-A		79	74	36	75	25	85
LCS 460-365496/4-A		61	65	33	65	22	95
LCSD 460-365496/3-A		84	76	36	76	25	102
LCSD 460-365496/5-A		66	69	38	66	24	97

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	43-126
FBP = 2-Fluorobiphenyl	63-113
2FP = 2-Fluorophenol (Surr)	13-77
NBZ = Nitrobenzene-d5 (Surr)	62-120
PHL = Phenol-d5 (Surr)	10-53
TPH = Terphenyl-d14 (Surr)	57-125

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Method Blank - Batch: 460-365496

Method: 8270D

Preparation: 3510C

Lab Sample ID: MB 460-365496/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/01/2016 1623  
 Prep Date: 04/29/2016 1236  
 Leach Date: N/A

Analysis Batch: 460-365663  
 Prep Batch: 460-365496  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS6  
 Lab File ID: M227182.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	10	U	0.63	10
1,2,4,5-Tetrachlorobenzene	10	U	0.43	10
2,2'-oxybis[1-chloropropane]	10	U	0.93	10
2,3,4,6-Tetrachlorophenol	10	U	0.69	10
2,4,5-Trichlorophenol	10	U	0.49	10
2,4,6-Trichlorophenol	10	U	0.53	10
2,4-Dichlorophenol	10	U	0.63	10
2,4-Dimethylphenol	10	U	0.91	10
2,4-Dinitrophenol	20	U	2.4	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.88	2.0
2-Chloronaphthalene	10	U	0.61	10
2-Chlorophenol	10	U	0.74	10
2-Methylnaphthalene	10	U	0.88	10
2-Methylphenol	10	U	1.3	10
2-Nitroaniline	10	U	0.65	10
2-Nitrophenol	10	U	0.59	10
3,3'-Dichlorobenzidine	10	U	1.0	10
3-Nitroaniline	10	U	0.82	10
4,6-Dinitro-2-methylphenol	20	U	2.0	20
4-Bromophenyl phenyl ether	10	U	1.0	10
4-Chloro-3-methylphenol	10	U	0.76	10
4-Chloroaniline	10	U	0.73	10
4-Chlorophenyl phenyl ether	10	U	0.96	10
4-Methylphenol	10	U	0.87	10
4-Nitroaniline	10	U	0.48	10
4-Nitrophenol	20	U	4.7	20
Acenaphthene	10	U	0.88	10
Acenaphthylene	10	U	0.65	10
Acetophenone	10	U	1.0	10
Anthracene	10	U	0.57	10
Atrazine	2.0	U	0.77	2.0
Benzaldehyde	10	U	0.86	10
Benzo[a]anthracene	1.0	U	0.55	1.0
Benzo[a]pyrene	1.0	U	0.16	1.0
Benzo[b]fluoranthene	1.0	U	0.44	1.0
Benzo[g,h,i]perylene	10	U	0.75	10
Benzo[k]fluoranthene	1.0	U	0.18	1.0
Bis(2-chloroethoxy)methane	10	U	0.69	10
Bis(2-chloroethyl)ether	1.0	U	0.12	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	0.72	2.0
Butyl benzyl phthalate	10	U	0.60	10
Caprolactam	10	U	1.1	10
Carbazole	10	U	0.85	10
Chrysene	2.0	U	0.67	2.0



## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Method Blank - Batch: 460-365496

Method: 8270D

Preparation: 3510C

Lab Sample ID: MB 460-365496/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/01/2016 1623  
 Prep Date: 04/29/2016 1236  
 Leach Date: N/A

Analysis Batch: 460-365663  
 Prep Batch: 460-365496  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS6  
 Lab File ID: M227182.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	1.0	U	0.090	1.0
Dibenzofuran	10	U	0.85	10
Diethyl phthalate	10	U	1.0	10
Dimethyl phthalate	10	U	0.98	10
Di-n-butyl phthalate	10	U	0.82	10
Di-n-octyl phthalate	10	U	0.69	10
Fluoranthene	10	U	0.72	10
Fluorene	10	U	0.80	10
Hexachlorobenzene	1.0	U	0.47	1.0
Hexachlorobutadiene	1.0	U	0.76	1.0
Hexachlorocyclopentadiene	10	U	0.61	10
Hexachloroethane	1.0	U	0.090	1.0
Indeno[1,2,3-cd]pyrene	1.0	U	0.21	1.0
Isophorone	10	U	0.67	10
Naphthalene	10	U	0.80	10
Nitrobenzene	1.0	U	0.49	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.83	1.0
N-Nitrosodiphenylamine	10	U	0.74	10
Pentachlorophenol	20	U	2.2	20
Phenanthrene	10	U	0.65	10
Phenol	10	U	0.41	10
Pyrene	10	U	0.83	10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	65	43 - 126
2-Fluorobiphenyl	69	63 - 113
2-Fluorophenol (Surr)	40	13 - 77
Nitrobenzene-d5 (Surr)	70	62 - 120
Phenol-d5 (Surr)	28	10 - 53
Terphenyl-d14 (Surr)	108	57 - 125

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-365496

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-365496/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1130  
Prep Date: 04/29/2016 1236  
Leach Date: N/A

Analysis Batch: 460-365663  
Prep Batch: 460-365496  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CBNAMS6  
Lab File ID: M227169.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 5 uL

LCSD Lab Sample ID: LCSD 460-365496/3-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1152  
Prep Date: 04/29/2016 1236  
Leach Date: N/A

Analysis Batch: 460-365663  
Prep Batch: 460-365496  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CBNAMS6  
Lab File ID: M227170.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1'-Biphenyl	72	75	62 - 108	3	30		
1,2,4,5-Tetrachlorobenzene	70	78	57 - 113	11	30		
2,2'-oxybis[1-chloropropane]	74	75	48 - 107	2	30		
2,3,4,6-Tetrachlorophenol	84	88	61 - 118	5	30		
2,4,5-Trichlorophenol	77	80	66 - 111	4	30		
2,4,6-Trichlorophenol	74	80	67 - 115	7	30		
2,4-Dichlorophenol	72	73	70 - 103	2	30		
2,4-Dimethylphenol	72	70	65 - 104	2	30		
2,4-Dinitrophenol	75	79	41 - 114	4	30		
2,4-Dinitrotoluene	87	92	60 - 119	5	30		
2,6-Dinitrotoluene	84	89	69 - 112	6	30		
2-Chloronaphthalene	74	77	62 - 105	4	30		
2-Chlorophenol	66	67	55 - 96	2	30		
2-Methylnaphthalene	69	72	62 - 104	5	30		
2-Methylphenol	57	61	41 - 88	6	30		
2-Nitroaniline	89	91	59 - 111	2	30		
2-Nitrophenol	79	80	72 - 105	1	30		
3,3'-Dichlorobenzidine	76	83	71 - 132	9	30		
3-Nitroaniline	79	81	54 - 108	3	30		
4,6-Dinitro-2-methylphenol	94	101	72 - 125	7	30		
4-Bromophenyl phenyl ether	90	91	66 - 134	2	30		
4-Chloro-3-methylphenol	75	76	58 - 109	1	30		
4-Chloroaniline	72	75	61 - 106	4	30		
4-Chlorophenyl phenyl ether	80	78	63 - 112	3	30		
4-Methylphenol	55	55	35 - 81	0	30		
4-Nitroaniline	71	77	42 - 128	7	30		
4-Nitrophenol	28	29	10 - 53	2	30		
Acenaphthene	82	90	55 - 110	10	30		
Acenaphthylene	75	78	67 - 110	4	30		
Acetophenone	86	85	61 - 118	2	30		
Anthracene	83	88	76 - 113	5	30		
Benzo[a]anthracene	78	84	75 - 116	8	30		
Benzo[a]pyrene	88	98	75 - 122	11	30		
Benzo[b]fluoranthene	95	97	74 - 125	2	30		
Benzo[g,h,i]perylene	91	96	66 - 144	6	30		

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-365496

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-365496/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1130  
Prep Date: 04/29/2016 1236  
Leach Date: N/A

Analysis Batch: 460-365663  
Prep Batch: 460-365496  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CBNAMS6  
Lab File ID: M227169.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 5 uL

LCSD Lab Sample ID: LCSD 460-365496/3-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1152  
Prep Date: 04/29/2016 1236  
Leach Date: N/A

Analysis Batch: 460-365663  
Prep Batch: 460-365496  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CBNAMS6  
Lab File ID: M227170.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[k]fluoranthene	87	100	70 - 120	14	30		
Bis(2-chloroethoxy)methane	79	80	68 - 109	2	30		
Bis(2-chloroethyl)ether	78	78	60 - 104	0	30		
Bis(2-ethylhexyl) phthalate	86	94	68 - 131	9	30		
Butyl benzyl phthalate	88	95	68 - 122	7	30		
Carbazole	86	92	69 - 118	6	30		
Chrysene	84	84	73 - 115	0	30		
Dibenz(a,h)anthracene	89	101	72 - 142	12	30		
Dibenzofuran	80	82	63 - 106	3	30		
Diethyl phthalate	88	96	62 - 115	8	30		
Dimethyl phthalate	84	90	68 - 111	6	30		
Di-n-butyl phthalate	97	100	66 - 127	3	30		
Di-n-octyl phthalate	95	99	58 - 126	4	30		
Fluoranthene	82	89	65 - 125	8	30		
Fluorene	81	80	66 - 112	1	30		
Hexachlorobenzene	86	91	66 - 136	6	30		
Hexachlorobutadiene	69	65	47 - 100	6	30		
Hexachlorocyclopentadiene	68	76	42 - 115	10	30		
Hexachloroethane	64	68	44 - 91	6	30		
Indeno[1,2,3-cd]pyrene	100	103	72 - 139	3	30		
Isophorone	71	70	61 - 107	1	30		
Naphthalene	74	71	61 - 100	5	30		
Nitrobenzene	71	70	66 - 105	1	30		
N-Nitrosodi-n-propylamine	86	88	57 - 120	3	30		
N-Nitrosodiphenylamine	87	87	65 - 121	1	30		
Pentachlorophenol	83	90	58 - 125	8	30		
Phenanthrene	82	89	76 - 116	9	30		
Phenol	31	30	14 - 50	3	30		
Pyrene	82	91	57 - 120	10	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4,6-Tribromophenol (Surr)	79		84		43 - 126		
2-Fluorobiphenyl	74		76		63 - 113		
2-Fluorophenol (Surr)	36		36		13 - 77		
Nitrobenzene-d5 (Surr)	75		76		62 - 120		
Phenol-d5 (Surr)	25		25		10 - 53		

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Terphenyl-d14 (Surr)	85	102	57 - 125

### Lab Control Sample/

Method: 8270D

Lab Control Sample Duplicate Recovery Report - Batch: 460-365496 Preparation: 3510C

LCS Lab Sample ID: LCS 460-365496/4-A	Analysis Batch: 460-365663	Instrument ID: CBNAMS6
Client Matrix: Water	Prep Batch: 460-365496	Lab File ID: M227183.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/01/2016 1645	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 04/29/2016 1236		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-365496/5-A	Analysis Batch: 460-365663	Instrument ID: CBNAMS6
Client Matrix: Water	Prep Batch: 460-365496	Lab File ID: M227184.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/01/2016 1707	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 04/29/2016 1236		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Atrazine	80	81	58 - 134	1	30		
Benzaldehyde	64	70	56 - 114	9	30		
Caprolactam	21	24	10 - 45	14	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	61	66	43 - 126
2-Fluorobiphenyl	65	69	63 - 113
2-Fluorophenol (Surr)	33	38	13 - 77
Nitrobenzene-d5 (Surr)	65	66	62 - 120
Phenol-d5 (Surr)	22	24	10 - 53
Terphenyl-d14 (Surr)	95	97	57 - 125

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Method Blank - Batch: 460-365630

Method: 6010C

Preparation: 3010A

Lab Sample ID: MB 460-365630/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1812  
Prep Date: 04/30/2016 1947  
Leach Date: N/A

Analysis Batch: 460-365673  
Prep Batch: 460-365630  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICP5  
Lab File ID: 365631D1.asc  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Silver	10.0	U	1.9	10.0
Aluminum	200	U	69.5	200
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Beryllium	2.0	U	1.8	2.0
Calcium	5000	U	317	5000
Cadmium	4.0	U	2.3	4.0
Cobalt	50.0	U	5.1	50.0
Chromium	10.0	U	4.5	10.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Potassium	5000	U	122	5000
Magnesium	5000	U	260	5000
Manganese	15.0	U	4.9	15.0
Sodium	5000	U	315	5000
Nickel	40.0	U	5.4	40.0
Lead	10.0	U	4.2	10.0
Antimony	20.0	U	4.7	20.0
Selenium	20.0	U	6.8	20.0
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Lab Control Sample - Batch: 460-365630

Method: 6010C

Preparation: 3010A

Lab Sample ID: LCS 460-365630/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1757  
Prep Date: 04/30/2016 1947  
Leach Date: N/A

Analysis Batch: 460-365673  
Prep Batch: 460-365630  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICP5  
Lab File ID: 365631D1.asc  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	48.75	98	80 - 120	
Aluminum	2000	1953	98	80 - 120	
Arsenic	2000	1984	99	80 - 120	
Barium	2000	2045	102	80 - 120	
Beryllium	50.0	51.03	102	80 - 120	
Calcium	20000	19760	99	80 - 120	
Cadmium	50.0	51.05	102	80 - 120	
Cobalt	500	511.4	102	80 - 120	
Chromium	200	211.6	106	80 - 120	
Copper	250	252.0	101	80 - 120	
Iron	1000	989.7	99	80 - 120	
Potassium	20000	18610	93	80 - 120	
Magnesium	20000	19460	97	80 - 120	
Manganese	500	532.5	107	80 - 120	
Sodium	20000	19840	99	80 - 120	
Nickel	500	524.1	105	80 - 120	
Lead	500	519.0	104	80 - 120	
Antimony	500	489.1	98	80 - 120	
Selenium	2000	1999	100	80 - 120	
Thallium	2000	2148	107	80 - 120	
Vanadium	500	525.9	105	80 - 120	
Zinc	500	530.9	106	80 - 120	

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Matrix Spike - Batch: 460-365630

Method: 6010C

Preparation: 3010A

Lab Sample ID: 460-113039-D-2-C MS  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1753  
Prep Date: 04/30/2016 1947  
Leach Date: N/A

Analysis Batch: 460-365673  
Prep Batch: 460-365630  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICP5  
Lab File ID: 365631D1.asc  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Silver	10.0	U	50.0	49.30	99	75 - 125	
Aluminum	200	U	2000	2007	100	75 - 125	
Arsenic	15.0	U	2000	2038	102	75 - 125	
Barium	1560		2000	3632	104	75 - 125	
Beryllium	2.0	U	50.0	51.26	103	75 - 125	
Calcium	97500		20000	119300	109	75 - 125	4
Cadmium	4.0	U	50.0	50.61	101	75 - 125	
Cobalt	50.0	U	500	510.9	102	75 - 125	
Chromium	10.0	U	200	209.3	105	75 - 125	
Copper	25.0	U	250	260.9	104	75 - 125	
Iron	21500		1000	22090	61	75 - 125	4
Potassium	44600		20000	64610	100	75 - 125	
Magnesium	50300		20000	71490	106	75 - 125	
Manganese	66.8		500	584.3	104	75 - 125	
Sodium	120000		20000	143500	116	75 - 125	4
Nickel	14.0	J	500	529.5	103	75 - 125	
Lead	10.0	U	500	510.3	102	75 - 125	
Antimony	20.0	U	500	504.7	101	75 - 125	
Selenium	20.0	U	2000	2062	103	75 - 125	
Thallium	20.0	U	2000	2123	106	75 - 125	
Vanadium	50.0	U	500	516.4	103	75 - 125	
Zinc	30.0	U	500	534.9	107	75 - 125	

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

**Duplicate - Batch: 460-365630**

**Method: 6010C**  
**Preparation: 3010A**

Lab Sample ID: 460-113039-D-2-B DU  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/01/2016 1816  
Prep Date: 04/30/2016 1947  
Leach Date: N/A

Analysis Batch: 460-365673  
Prep Batch: 460-365630  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICP5  
Lab File ID: 365631D1.asc  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	10.0	U	10.0	NC	20	U
Aluminum	200	U	200	NC	20	U
Arsenic	15.0	U	15.0	NC	20	U
Barium	1560		1611	3	20	
Beryllium	2.0	U	2.0	NC	20	U
Calcium	97500		99240	2	20	
Cadmium	4.0	U	4.0	NC	20	U
Cobalt	50.0	U	50.0	NC	20	U
Chromium	10.0	U	10.0	NC	20	U
Copper	25.0	U	25.0	NC	20	U
Iron	21500		21590	0.5	20	
Potassium	44600		45930	3	20	
Magnesium	50300		50890	1	20	
Manganese	66.8		68.33	2	20	
Sodium	120000		124800	4	20	
Nickel	14.0	J	14.22	2	20	J
Lead	10.0	U	10.0	NC	20	U
Antimony	20.0	U	20.0	NC	20	U
Selenium	20.0	U	20.0	NC	20	U
Thallium	20.0	U	20.0	NC	20	U
Vanadium	50.0	U	50.0	NC	20	U
Zinc	30.0	U	30.0	NC	20	U



## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

### Method Blank - Batch: 460-365470

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	MB 460-365470/1-A	Analysis Batch:	460-365532	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-365470	Lab File ID:	365470hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	04/29/2016 1412	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2016 1125				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.14	0.20

### Lab Control Sample - Batch: 460-365470

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	LCS 460-365470/2-A	Analysis Batch:	460-365532	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-365470	Lab File ID:	365470hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	04/29/2016 1414	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2016 1125				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.963	96	80 - 120	

### Matrix Spike - Batch: 460-365470

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	460-112760-D-11-B MS	Analysis Batch:	460-365532	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-365470	Lab File ID:	365470hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	04/29/2016 1419	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2016 1125				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.40	1.00	1.55	115	80 - 120	

## Quality Control Results

Client: New York State D.E.C.

Job Number: 460-112888-1

**Duplicate - Batch: 460-365470**

**Method: 7470A**

**Preparation: 7470A**

Lab Sample ID: 460-112760-A-11-A DU  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 04/29/2016 1417  
Prep Date: 04/29/2016 1125  
Leach Date: N/A

Analysis Batch: 460-365532  
Prep Batch: 460-365470  
Leach Batch: N/A  
Units: ug/L

Instrument ID: LEEMAN6  
Lab File ID: 365470hg.CSV  
Initial Weight/Volume: 30 mL  
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.40	0.402	1	20	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice)

IAN HOFMANN

Samplers Name (Printed)

DE-ELMONT SL6 / SITE# E130150

Company

EAR

P. O. #

State (Location of site): NJ: ☒ NY: ☐ Other: ☐

Address

285 ATLANTIC AVE

Analysis Turnaround Time

Standard ☒ (10-24H)

Rush Charges Authorized For:

2 Week ☐

1 Week ☐

Other ☐

ANALYSIS REQUESTED (ENTER % BELOW TO INDICATE REQUEST)

LAB USE ONLY  
Project No:

Job No:

112888

Sample Numbers

City

PATNAUGUE

State

NY

Phone

631-447-6400

Fax

631-447-6497

Sample Identification

RIUSE WATER

Date

4/26/16

Time

1010

Matrix

Hg

No. of Cont.

3

EPA METHOD

8270 (TCL)

EPA METHOD

6010 (TAL)

EPA METHOD

7470 (Hg)



460-112888 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH

6 = Other WATERS, 7 = Other

Soil:

Water:

6

6

4

### Special Instructions

CATEGORIES A DELIVERABLES REQUESTED

Water Metals Filtered (Yes/No)?

Relinquished by

Steve Gault

Company

EAR

Date / Time

4/26/16 1600

Received by

EAR Sample House

Company

EAR

Relinquished by

Steve Gault

Company

EAR

Date / Time

4-27-16 1050

Received by

MURRAY A. VIOLETTA

Company

EAR

Relinquished by

MURRAY A. VIOLETTA

Company

EAR

Date / Time

4-27-16 1050

Received by

[Signature]

Company

EAR

Relinquished by

[Signature]

Company

EAR

Date / Time

4/27/16 120100

Received by

[Signature]

Company

EAR

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL-0016 (07-15)

112888

第

Number of Coolers:

IR Gun #

## Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED		RAW		CORRECTED	
Cooler #1:	10 °C	10 °C		Cooler #4:	°C	°C		Cooler #7:	°C	°C	
Cooler #2:	°C	°C		Cooler #5:	°C	°C		Cooler #8:	°C	°C	
Cooler #3:	°C	°C		Cooler #6:	°C	°C		Cooler #9:	°C	°C	

05/09/2016

Date: 9/11/10

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-112888-1

**Login Number: 112888**

**List Source: TestAmerica Edison**

**List Number: 1**

**Creator: Meyers, Gary**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 ° C IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.