

ANALYTICAL REPORT

Job Number: 460-109332-1

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

Melissa Haas

Approved for release.
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Project Manager I
3/2/2016 9:22 AM

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03/02/2016

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Job Number: 460-109332-1

Job Description: DEC Elmont546; Site: E130150

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A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
3/2/2016 9:22 AM

Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

Report Number: 460-109332-1

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

Receipt Exceptions

The following samples was collected in an improper container: 110Sand_EAR FILL1 (460-109332-1), 110Sand_EAR FILL2 (460-109332-2) and 110Sand_EAR Composite (460-109332-3). VOC was collected as dirt in jar. Samples were not collected according to 5035L/5035A-L specifications.

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.

VOLATILE ORGANICS

Samples 110Sand_EAR FILL1 (460-109332-1) and 110Sand_EAR FILL2 (460-109332-2) were analyzed for Volatile organics in accordance with EPA SW-846 Method 8260C. The samples were prepared on 02/25/2016 and analyzed on 02/27/2016.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 460-352836 was outside the method criteria for the following analyte: Freon TF. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-352836 recovered outside control limits for the following analyte: 1,1,2-Trichloro-1,2,2-trifluoroethane. This analyte was not detected in the associated samples; therefore, the data have been reported.

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

PESTICIDES

Sample 110Sand_EAR Composite (460-109332-3) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 02/26/2016 and analyzed on 02/27/2016.

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

POLYCHLORINATED BIPHENYLS

Sample 110Sand_EAR Composite (460-109332-3) was analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 02/26/2016 and analyzed on 02/27/2016.

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

SEMIVOLATILE ORGANIC COMPOUNDS

Sample 110Sand_EAR Composite (460-109332-3) was analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 02/26/2016 and analyzed on 02/29/2016.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-353026 was outside the method criteria for the

following analyte(s): 4-Nitrophenol, Indeno[1,2,3-cd]pyrene, Benzo[g,h,i]perylene, 4-Nitroaniline and Dibenzo[a,h]anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

METALS

Sample 110Sand_EAR Composite (460-109332-3) was analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 02/26/2016 and analyzed on 02/27/2016.

Sample 110Sand_EAR Composite (460-109332-3)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL MERCURY

Sample 110Sand_EAR Composite (460-109332-3) was analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 02/29/2016.

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

PERCENT SOLIDS/PERCENT MOISTURE

Samples 110Sand_EAR FILL1 (460-109332-1), 110Sand_EAR FILL2 (460-109332-2) and 110Sand_EAR Composite (460-109332-3) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 02/25/2016.

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

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-109332-1

| Lab Sample ID Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------------------|--------|-----------|--------------------|-------|----------|
| 460-109332-1 | 110SAND_EAR FILL1 | | | | | |
| Percent Moisture | | 3.8 | | 1.0 | % | Moisture |
| Percent Solids | | 96.2 | | 1.0 | % | Moisture |
| 460-109332-2 | 110SAND_EAR FILL2 | | | | | |
| Percent Moisture | | 3.4 | | 1.0 | % | Moisture |
| Percent Solids | | 96.6 | | 1.0 | % | Moisture |
| 460-109332-3 | 110SAND_EAR COMPOSITE | | | | | |
| Aluminum | | 685 | | 40.7 | mg/Kg | 6010C |
| Barium | | 2.8 | J | 40.7 | mg/Kg | 6010C |
| Calcium | | 119 | J | 1020 | mg/Kg | 6010C |
| Chromium | | 2.1 | | 2.0 | mg/Kg | 6010C |
| Copper | | 1.8 | J | 5.1 | mg/Kg | 6010C |
| Iron | | 2000 | | 30.5 | mg/Kg | 6010C |
| Lead | | 1.2 | J | 2.0 | mg/Kg | 6010C |
| Magnesium | | 169 | J | 1020 | mg/Kg | 6010C |
| Manganese | | 47.7 | | 3.1 | mg/Kg | 6010C |
| Potassium | | 64.9 | J | 1020 | mg/Kg | 6010C |
| Vanadium | | 2.5 | J | 10.2 | mg/Kg | 6010C |
| Zinc | | 3.1 | J | 6.1 | mg/Kg | 6010C |
| Percent Moisture | | 3.7 | | 1.0 | % | Moisture |
| Percent Solids | | 96.3 | | 1.0 | % | Moisture |

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-109332-1

| Description | Lab Location | Method | Preparation Method |
|--------------------------------------------------------|--------------|--------------|--------------------|
| Matrix: Solid | | | |
| Volatile Organic Compounds by GC/MS | TAL EDI | SW846 8260C | |
| Closed System Purge and Trap | TAL EDI | | SW846 5035 |
| Semivolatile Organic Compounds (GC/MS) | TAL EDI | SW846 8270D | |
| Microwave Extraction | TAL EDI | | SW846 3546 |
| Organochlorine Pesticides (GC) | TAL EDI | SW846 8081B | |
| Microwave Extraction | TAL EDI | | SW846 3546 |
| Polychlorinated Biphenyls (PCBs) by Gas Chromatography | TAL EDI | SW846 8082A | |
| Microwave Extraction | TAL EDI | | SW846 3546 |
| Metals (ICP) | TAL EDI | SW846 6010C | |
| Preparation, Metals | TAL EDI | | SW846 3050B |
| Mercury (CVAA) | TAL EDI | SW846 7471B | |
| Preparation, Mercury | TAL EDI | | SW846 7471B |
| Percent Moisture | TAL EDI | EPA Moisture | |

Lab References:

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

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: 460-109332-1

| Method | Analyst | Analyst ID |
|--------------|---------------------|------------|
| SW846 8260C | Tupayachi, Audberto | AAT |
| SW846 8270D | Crocco, Michael | MMC |
| SW846 8081B | Kapoor, Sita | SAK |
| SW846 8082A | Patel, Jignesh | JHP |
| SW846 6010C | Chang, Churn Der | CDC |
| SW846 7471B | Staib, Thomas | TJS |
| EPA Moisture | Martinez, Victor | VMM |

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-109332-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|-----------------------|---------------|----------------------|-----------------------|
| 460-109332-1 | 110Sand_EAR FILL1 | Solid | 02/24/2016 0920 | 02/24/2016 1830 |
| 460-109332-2 | 110Sand_EAR FILL2 | Solid | 02/24/2016 0925 | 02/24/2016 1830 |
| 460-109332-3 | 110Sand_EAR Composite | Solid | 02/24/2016 0930 | 02/24/2016 1830 |

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR FILL1

Lab Sample ID: 460-109332-1

Date Sampled: 02/24/2016 0920

Client Matrix: Solid

% Moisture: 3.8

Date Received: 02/24/2016 1830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-352836

Instrument ID: CVOAMS4

Prep Method: 5035

Prep Batch: 460-352545

Lab File ID: D19939.D

Dilution: 1.0

Initial Weight/Volume: 4.27 g

Analysis Date: 02/27/2016 0828

Final Weight/Volume: 5 mL

Prep Date: 02/25/2016 2037

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---------------------------------------|--------------------|----------------|-----------|------|-----|
| 1,1,1-Trichloroethane | | 1.2 | U | 0.46 | 1.2 |
| 1,1,2,2-Tetrachloroethane | | 1.2 | U | 0.21 | 1.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 1.2 | U * | 0.54 | 1.2 |
| 1,1,2-Trichloroethane | | 1.2 | U | 0.34 | 1.2 |
| 1,1-Dichloroethane | | 1.2 | U | 0.41 | 1.2 |
| 1,1-Dichloroethene | | 1.2 | U | 0.50 | 1.2 |
| 1,2,3-Trichlorobenzene | | 1.2 | U | 0.13 | 1.2 |
| 1,2,4-Trichlorobenzene | | 1.2 | U | 0.39 | 1.2 |
| 1,2-Dibromo-3-Chloropropane | | 1.2 | U | 0.57 | 1.2 |
| 1,2-Dichlorobenzene | | 1.2 | U | 0.17 | 1.2 |
| 1,2-Dichloroethane | | 1.2 | U | 0.13 | 1.2 |
| 1,2-Dichloropropane | | 1.2 | U | 0.21 | 1.2 |
| 1,3-Dichlorobenzene | | 1.2 | U | 0.15 | 1.2 |
| 1,4-Dichlorobenzene | | 1.2 | U | 0.16 | 1.2 |
| 1,4-Dioxane | | 24 | U | 7.8 | 24 |
| 2-Butanone (MEK) | | 6.1 | U | 0.94 | 6.1 |
| 2-Hexanone | | 6.1 | U | 1.1 | 6.1 |
| 4-Methyl-2-pentanone (MIBK) | | 6.1 | U | 2.7 | 6.1 |
| Acetone | | 6.1 | U | 1.3 | 6.1 |
| Benzene | | 1.2 | U | 0.24 | 1.2 |
| Bromoform | | 1.2 | U | 0.16 | 1.2 |
| Bromomethane | | 1.2 | U | 0.39 | 1.2 |
| Carbon disulfide | | 1.2 | U | 0.52 | 1.2 |
| Carbon tetrachloride | | 1.2 | U | 0.52 | 1.2 |
| Chlorobenzene | | 1.2 | U | 0.17 | 1.2 |
| Chlorobromomethane | | 1.2 | U | 0.21 | 1.2 |
| Chlorodibromomethane | | 1.2 | U | 0.18 | 1.2 |
| Chloroethane | | 1.2 | U | 0.43 | 1.2 |
| Chloroform | | 1.2 | U | 0.26 | 1.2 |
| Chloromethane | | 1.2 | U | 0.46 | 1.2 |
| cis-1,2-Dichloroethene | | 1.2 | U | 0.27 | 1.2 |
| cis-1,3-Dichloropropene | | 1.2 | U | 0.18 | 1.2 |
| Cyclohexane | | 1.2 | U | 0.56 | 1.2 |
| Dichlorobromomethane | | 1.2 | U | 0.46 | 1.2 |
| Dichlorodifluoromethane | | 1.2 | U | 0.39 | 1.2 |
| Ethylbenzene | | 1.2 | U | 0.22 | 1.2 |
| Ethylene Dibromide | | 1.2 | U | 0.15 | 1.2 |
| Isopropylbenzene | | 1.2 | U | 0.21 | 1.2 |
| Methyl acetate | | 6.1 | U | 1.1 | 6.1 |
| Methyl tert-butyl ether | | 1.2 | U | 0.21 | 1.2 |
| Methylcyclohexane | | 1.2 | U | 0.61 | 1.2 |
| Methylene Chloride | | 1.2 | U | 0.39 | 1.2 |
| m-Xylene & p-Xylene | | 1.2 | U | 0.13 | 1.2 |
| o-Xylene | | 1.2 | U | 0.19 | 1.2 |
| Styrene | | 1.2 | U | 0.18 | 1.2 |
| Tetrachloroethene | | 1.2 | U | 0.34 | 1.2 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR FILL1

Lab Sample ID: 460-109332-1

Date Sampled: 02/24/2016 0920

Client Matrix: Solid

% Moisture: 3.8

Date Received: 02/24/2016 1830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-352836

Instrument ID: CVOAMS4

Prep Method: 5035

Prep Batch: 460-352545

Lab File ID: D19939.D

Dilution: 1.0

Initial Weight/Volume: 4.27 g

Analysis Date: 02/27/2016 0828

Final Weight/Volume: 5 mL

Prep Date: 02/25/2016 2037

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---------------------------|--------------------|----------------|-----------|------|-----|
| Toluene | | 1.2 | U | 0.23 | 1.2 |
| trans-1,2-Dichloroethene | | 1.2 | U | 0.47 | 1.2 |
| trans-1,3-Dichloropropene | | 1.2 | U | 0.12 | 1.2 |
| Trichloroethene | | 1.2 | U | 0.32 | 1.2 |
| Trichlorofluoromethane | | 1.2 | U | 0.41 | 1.2 |
| Vinyl chloride | | 1.2 | U | 0.47 | 1.2 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 78 - 135 |
| 4-Bromofluorobenzene | 93 | | 67 - 126 |
| Dibromofluoromethane (Surr) | 99 | | 61 - 149 |
| Toluene-d8 (Surr) | 90 | | 73 - 121 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR FILL2

Lab Sample ID: 460-109332-2

Date Sampled: 02/24/2016 0925

Client Matrix: Solid

% Moisture: 3.4

Date Received: 02/24/2016 1830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-352836

Instrument ID: CVOAMS4

Prep Method: 5035

Prep Batch: 460-352545

Lab File ID: D19940.D

Dilution: 1.0

Initial Weight/Volume: 5.48 g

Analysis Date: 02/27/2016 0853

Final Weight/Volume: 5 mL

Prep Date: 02/25/2016 2039

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---------------------------------------|--------------------|----------------|-----------|------|------|
| 1,1,1-Trichloroethane | | 0.94 | U | 0.36 | 0.94 |
| 1,1,2,2-Tetrachloroethane | | 0.94 | U | 0.16 | 0.94 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 0.94 | U * | 0.42 | 0.94 |
| 1,1,2-Trichloroethane | | 0.94 | U | 0.26 | 0.94 |
| 1,1-Dichloroethane | | 0.94 | U | 0.32 | 0.94 |
| 1,1-Dichloroethene | | 0.94 | U | 0.39 | 0.94 |
| 1,2,3-Trichlorobenzene | | 0.94 | U | 0.10 | 0.94 |
| 1,2,4-Trichlorobenzene | | 0.94 | U | 0.30 | 0.94 |
| 1,2-Dibromo-3-Chloropropane | | 0.94 | U | 0.44 | 0.94 |
| 1,2-Dichlorobenzene | | 0.94 | U | 0.13 | 0.94 |
| 1,2-Dichloroethane | | 0.94 | U | 0.10 | 0.94 |
| 1,2-Dichloropropane | | 0.94 | U | 0.16 | 0.94 |
| 1,3-Dichlorobenzene | | 0.94 | U | 0.11 | 0.94 |
| 1,4-Dichlorobenzene | | 0.94 | U | 0.12 | 0.94 |
| 1,4-Dioxane | | 19 | U | 6.0 | 19 |
| 2-Butanone (MEK) | | 4.7 | U | 0.73 | 4.7 |
| 2-Hexanone | | 4.7 | U | 0.89 | 4.7 |
| 4-Methyl-2-pentanone (MIBK) | | 4.7 | U | 2.1 | 4.7 |
| Acetone | | 4.7 | U | 1.0 | 4.7 |
| Benzene | | 0.94 | U | 0.19 | 0.94 |
| Bromoform | | 0.94 | U | 0.12 | 0.94 |
| Bromomethane | | 0.94 | U | 0.30 | 0.94 |
| Carbon disulfide | | 0.94 | U | 0.41 | 0.94 |
| Carbon tetrachloride | | 0.94 | U | 0.41 | 0.94 |
| Chlorobenzene | | 0.94 | U | 0.13 | 0.94 |
| Chlorobromomethane | | 0.94 | U | 0.16 | 0.94 |
| Chlorodibromomethane | | 0.94 | U | 0.14 | 0.94 |
| Chloroethane | | 0.94 | U | 0.33 | 0.94 |
| Chloroform | | 0.94 | U | 0.20 | 0.94 |
| Chloromethane | | 0.94 | U | 0.36 | 0.94 |
| cis-1,2-Dichloroethene | | 0.94 | U | 0.21 | 0.94 |
| cis-1,3-Dichloropropene | | 0.94 | U | 0.14 | 0.94 |
| Cyclohexane | | 0.94 | U | 0.43 | 0.94 |
| Dichlorobromomethane | | 0.94 | U | 0.36 | 0.94 |
| Dichlorodifluoromethane | | 0.94 | U | 0.30 | 0.94 |
| Ethylbenzene | | 0.94 | U | 0.17 | 0.94 |
| Ethylene Dibromide | | 0.94 | U | 0.11 | 0.94 |
| Isopropylbenzene | | 0.94 | U | 0.16 | 0.94 |
| Methyl acetate | | 4.7 | U | 0.85 | 4.7 |
| Methyl tert-butyl ether | | 0.94 | U | 0.16 | 0.94 |
| Methylcyclohexane | | 0.94 | U | 0.47 | 0.94 |
| Methylene Chloride | | 0.94 | U | 0.30 | 0.94 |
| m-Xylene & p-Xylene | | 0.94 | U | 0.10 | 0.94 |
| o-Xylene | | 0.94 | U | 0.15 | 0.94 |
| Styrene | | 0.94 | U | 0.14 | 0.94 |
| Tetrachloroethene | | 0.94 | U | 0.26 | 0.94 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR FILL2

Lab Sample ID: 460-109332-2

Date Sampled: 02/24/2016 0925

Client Matrix: Solid

% Moisture: 3.4

Date Received: 02/24/2016 1830

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-352836

Instrument ID: CVOAMS4

Prep Method: 5035

Prep Batch: 460-352545

Lab File ID: D19940.D

Dilution: 1.0

Initial Weight/Volume: 5.48 g

Analysis Date: 02/27/2016 0853

Final Weight/Volume: 5 mL

Prep Date: 02/25/2016 2039

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---------------------------|--------------------|----------------|-----------|-------|------|
| Toluene | | 0.94 | U | 0.18 | 0.94 |
| trans-1,2-Dichloroethene | | 0.94 | U | 0.37 | 0.94 |
| trans-1,3-Dichloropropene | | 0.94 | U | 0.094 | 0.94 |
| Trichloroethene | | 0.94 | U | 0.25 | 0.94 |
| Trichlorofluoromethane | | 0.94 | U | 0.32 | 0.94 |
| Vinyl chloride | | 0.94 | U | 0.37 | 0.94 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 78 - 135 |
| 4-Bromofluorobenzene | 94 | | 67 - 126 |
| Dibromofluoromethane (Surr) | 98 | | 61 - 149 |
| Toluene-d8 (Surr) | 91 | | 73 - 121 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-353026

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-352715

Lab File ID: L130964.D

Dilution: 1.0

Initial Weight/Volume: 15.0731 g

Analysis Date: 02/29/2016 0715

Final Weight/Volume: 1 mL

Prep Date: 02/26/2016 1302

Injection Volume: 1 uL

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|------------------------------|--------------------|----------------|-----------|-----|-----|
| 1,1'-Biphenyl | | 340 | U | 29 | 340 |
| 1,2,4,5-Tetrachlorobenzene | | 340 | U | 25 | 340 |
| 2,2'-oxybis[1-chloropropane] | | 340 | U | 14 | 340 |
| 2,3,4,6-Tetrachlorophenol | | 340 | U | 32 | 340 |
| 2,4,5-Trichlorophenol | | 340 | U | 34 | 340 |
| 2,4,6-Trichlorophenol | | 140 | U | 9.7 | 140 |
| 2,4-Dichlorophenol | | 140 | U | 8.1 | 140 |
| 2,4-Dimethylphenol | | 340 | U | 75 | 340 |
| 2,4-Dinitrophenol | | 270 | U | 260 | 270 |
| 2,4-Dinitrotoluene | | 69 | U | 14 | 69 |
| 2,6-Dinitrotoluene | | 69 | U | 18 | 69 |
| 2-Chloronaphthalene | | 340 | U | 7.7 | 340 |
| 2-Chlorophenol | | 340 | U | 8.7 | 340 |
| 2-Methylnaphthalene | | 340 | U | 7.5 | 340 |
| 2-Methylphenol | | 340 | U | 15 | 340 |
| 2-Nitroaniline | | 340 | U | 11 | 340 |
| 2-Nitrophenol | | 340 | U | 11 | 340 |
| 3,3'-Dichlorobenzidine | | 140 | U | 38 | 140 |
| 3-Nitroaniline | | 340 | U | 10 | 340 |
| 4,6-Dinitro-2-methylphenol | | 270 | U | 91 | 270 |
| 4-Bromophenyl phenyl ether | | 340 | U | 11 | 340 |
| 4-Chloro-3-methylphenol | | 340 | U | 15 | 340 |
| 4-Chloroaniline | | 340 | U | 8.8 | 340 |
| 4-Chlorophenyl phenyl ether | | 340 | U | 10 | 340 |
| 4-Methylphenol | | 340 | U | 9.3 | 340 |
| 4-Nitroaniline | | 340 | U | 13 | 340 |
| 4-Nitrophenol | | 690 | U | 160 | 690 |
| Acenaphthene | | 340 | U | 8.3 | 340 |
| Acenaphthylene | | 340 | U | 8.8 | 340 |
| Acetophenone | | 340 | U | 7.4 | 340 |
| Anthracene | | 340 | U | 32 | 340 |
| Atrazine | | 140 | U | 15 | 140 |
| Benzaldehyde | | 340 | U | 26 | 340 |
| Benzo[a]anthracene | | 34 | U | 29 | 34 |
| Benzo[a]pyrene | | 34 | U | 10 | 34 |
| Benzo[b]fluoranthene | | 34 | U | 13 | 34 |
| Benzo[g,h,i]perylene | | 340 | U | 20 | 340 |
| Benzo[k]fluoranthene | | 34 | U | 15 | 34 |
| Bis(2-chloroethoxy)methane | | 340 | U | 11 | 340 |
| Bis(2-chloroethyl)ether | | 34 | U | 8.1 | 34 |
| Bis(2-ethylhexyl) phthalate | | 340 | U | 13 | 340 |
| Butyl benzyl phthalate | | 340 | U | 11 | 340 |
| Caprolactam | | 340 | U | 25 | 340 |
| Carbazole | | 340 | U | 8.5 | 340 |
| Chrysene | | 340 | U | 9.3 | 340 |
| Dibenz(a,h)anthracene | | 34 | U | 18 | 34 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-353026

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-352715

Lab File ID: L130964.D

Dilution: 1.0

Initial Weight/Volume: 15.0731 g

Analysis Date: 02/29/2016 0715

Final Weight/Volume: 1 mL

Prep Date: 02/26/2016 1302

Injection Volume: 1 uL

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---------------------------|--------------------|----------------|-----------|-----|-----|
| Dibenzofuran | | 340 | U | 10 | 340 |
| Diethyl phthalate | | 340 | U | 9.7 | 340 |
| Dimethyl phthalate | | 340 | U | 9.9 | 340 |
| Di-n-butyl phthalate | | 340 | U | 10 | 340 |
| Di-n-octyl phthalate | | 340 | U | 17 | 340 |
| Fluoranthene | | 340 | U | 10 | 340 |
| Fluorene | | 340 | U | 7.4 | 340 |
| Hexachlorobenzene | | 34 | U | 14 | 34 |
| Hexachlorobutadiene | | 69 | U | 9.6 | 69 |
| Hexachlorocyclopentadiene | | 340 | U | 21 | 340 |
| Hexachloroethane | | 34 | U | 13 | 34 |
| Indeno[1,2,3-cd]pyrene | | 34 | U | 23 | 34 |
| Isophorone | | 140 | U | 7.3 | 140 |
| Naphthalene | | 340 | U | 8.7 | 340 |
| Nitrobenzene | | 34 | U | 11 | 34 |
| N-Nitrosodi-n-propylamine | | 34 | U | 11 | 34 |
| N-Nitrosodiphenylamine | | 340 | U | 31 | 340 |
| Pentachlorophenol | | 270 | U | 41 | 270 |
| Phenanthrene | | 340 | U | 9.1 | 340 |
| Phenol | | 340 | U | 11 | 340 |
| Pyrene | | 340 | U | 15 | 340 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|-----------------------------|------|-----------|-------------------|
| 2,4,6-Tribromophenol (Surr) | 61 | | 10 - 95 |
| 2-Fluorobiphenyl | 72 | | 27 - 84 |
| 2-Fluorophenol (Surr) | 68 | | 21 - 84 |
| Nitrobenzene-d5 (Surr) | 76 | | 28 - 92 |
| Phenol-d5 (Surr) | 73 | | 22 - 88 |
| Terphenyl-d14 (Surr) | 99 | | 16 - 114 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-352869

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-352814

Initial Weight/Volume: 15.0046 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 02/27/2016 1056

Injection Volume: 1 uL

Prep Date: 02/26/2016 2235

Result Type: PRIMARY

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|-----------------------|--------------------|----------------|-----------|------|-----|
| 4,4'-DDD | | 7.0 | U | 0.91 | 7.0 |
| 4,4'-DDE | | 7.0 | U | 1.0 | 7.0 |
| 4,4'-DDT | | 7.0 | U | 0.72 | 7.0 |
| Aldrin | | 7.0 | U | 0.84 | 7.0 |
| alpha-BHC | | 2.1 | U | 0.63 | 2.1 |
| beta-BHC | | 2.1 | U | 0.67 | 2.1 |
| Chlordane (technical) | | 70 | U | 31 | 70 |
| delta-BHC | | 2.1 | U | 0.76 | 2.1 |
| Dieldrin | | 2.1 | U | 0.90 | 2.1 |
| Endosulfan I | | 7.0 | U | 0.97 | 7.0 |
| Endosulfan II | | 7.0 | U | 1.1 | 7.0 |
| Endosulfan sulfate | | 7.0 | U | 0.81 | 7.0 |
| Endrin | | 7.0 | U | 0.88 | 7.0 |
| Endrin aldehyde | | 7.0 | U | 0.86 | 7.0 |
| Endrin ketone | | 7.0 | U | 0.97 | 7.0 |
| gamma-BHC (Lindane) | | 2.1 | U | 0.62 | 2.1 |
| Heptachlor | | 7.0 | U | 0.89 | 7.0 |
| Heptachlor epoxide | | 7.0 | U | 1.4 | 7.0 |
| Methoxychlor | | 7.0 | U | 1.5 | 7.0 |
| Toxaphene | | 70 | U | 20 | 70 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------|------|-----------|-------------------|
| DCB Decachlorobiphenyl | 118 | | 55 - 148 |
| Tetrachloro-m-xylene | 109 | p | 55 - 139 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-352869

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-352814

Initial Weight/Volume: 15.0046 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 02/27/2016 1056

Injection Volume: 1 uL

Prep Date: 02/26/2016 2235

Result Type: SECONDARY

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------|------|-----------|-------------------|
| DCB Decachlorobiphenyl | 116 | | 55 - 148 |
| Tetrachloro-m-xylene | 265 | * | 55 - 139 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-352877

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-352828

Initial Weight/Volume: 15.0046 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 02/27/2016 1422

Injection Volume: 1 uL

Prep Date: 02/26/2016 2304

Result Type: PRIMARY

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|----------------------------------|--------------------|----------------|-----------|-----|----|
| Aroclor 1016 | | 70 | U | 9.2 | 70 |
| Aroclor 1221 | | 70 | U | 9.2 | 70 |
| Aroclor 1232 | | 70 | U | 9.2 | 70 |
| Aroclor 1242 | | 70 | U | 9.2 | 70 |
| Aroclor 1248 | | 70 | U | 9.2 | 70 |
| Aroclor 1254 | | 70 | U | 9.5 | 70 |
| Aroclor 1260 | | 70 | U | 9.5 | 70 |
| Aroclor 1268 | | 70 | U | 9.5 | 70 |
| Aroclor-1262 | | 70 | U | 9.5 | 70 |
| Polychlorinated biphenyls, Total | | 70 | U | 9.5 | 70 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------|------|-----------|-------------------|
| DCB Decachlorobiphenyl | 122 | | 47 - 150 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-352877

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-352828

Initial Weight/Volume: 15.0046 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 02/27/2016 1422

Injection Volume: 1 uL

Prep Date: 02/26/2016 2304

Result Type: SECONDARY

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------|------|-----------|-------------------|
| DCB Decachlorobiphenyl | 110 | | 47 - 150 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

% Moisture: 3.7

Date Received: 02/24/2016 1830

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-352913

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-352643

Lab File ID: 02272016.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 02/27/2016 1825

Final Weight/Volume: 50 mL

Prep Date: 02/26/2016 0757

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|-----------|--------------------|----------------|-----------|------|------|
| Aluminum | | 685 | | 21.0 | 40.7 |
| Antimony | | 4.1 | U | 1.6 | 4.1 |
| Arsenic | | 3.1 | U | 1.0 | 3.1 |
| Barium | | 2.8 | J | 1.5 | 40.7 |
| Beryllium | | 0.41 | U | 0.35 | 0.41 |
| Cadmium | | 0.81 | U | 0.42 | 0.81 |
| Calcium | | 119 | J | 60.3 | 1020 |
| Chromium | | 2.1 | | 0.98 | 2.0 |
| Cobalt | | 10.2 | U | 1.2 | 10.2 |
| Copper | | 1.8 | J | 1.3 | 5.1 |
| Iron | | 2000 | | 23.0 | 30.5 |
| Lead | | 1.2 | J | 0.80 | 2.0 |
| Magnesium | | 169 | J | 50.8 | 1020 |
| Manganese | | 47.7 | | 1.1 | 3.1 |
| Nickel | | 8.1 | U | 1.5 | 8.1 |
| Potassium | | 64.9 | J | 30.8 | 1020 |
| Selenium | | 4.1 | U | 1.4 | 4.1 |
| Silver | | 2.0 | U | 0.36 | 2.0 |
| Sodium | | 1020 | U | 68.9 | 1020 |
| Thallium | | 4.1 | U | 1.8 | 4.1 |
| Vanadium | | 2.5 | J | 1.0 | 10.2 |
| Zinc | | 3.1 | J | 1.5 | 6.1 |

7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-353166

Instrument ID: LEEMAN5

Prep Method: 7471B

Prep Batch: 460-353060

Lab File ID: 353058HG1.PRN

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 02/29/2016 1137

Final Weight/Volume: 50 mL

Prep Date: 02/29/2016 0514

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---------|--------------------|----------------|-----------|-------|-------|
| Mercury | | 0.016 | U | 0.012 | 0.016 |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

General Chemistry

Client Sample ID: 110Sand_EAR FILL1

Lab Sample ID: 460-109332-1

Client Matrix: Solid

Date Sampled: 02/24/2016 0920

Date Received: 02/24/2016 1830

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|------------------|----------------------------|---------------------------|-------|-----|-----|-----|--------------------|
| Percent Moisture | 3.8 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |
| Percent Solids | 96.2 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

General Chemistry

Client Sample ID: 110Sand_EAR FILL2

Lab Sample ID: 460-109332-2

Client Matrix: Solid

Date Sampled: 02/24/2016 0925

Date Received: 02/24/2016 1830

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|------------------|----------------------------|---------------------------|-------|-----|-----|-----|--------------------|
| Percent Moisture | 3.4 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |
| Percent Solids | 96.6 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |

Analytical Data

Client: New York State D.E.C.

Job Number: 460-109332-1

General Chemistry

Client Sample ID: 110Sand_EAR Composite

Lab Sample ID: 460-109332-3

Date Sampled: 02/24/2016 0930

Client Matrix: Solid

Date Received: 02/24/2016 1830

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|------------------|----------------------------|---------------------------|-------|-----|-----|-----|--------------------|
| Percent Moisture | 3.7 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |
| Percent Solids | 96.3 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| | Analysis Batch: 460-352499 | Analysis Date: 02/25/2016 | 1554 | | | | DryWt Corrected: N |

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-109332-1

| Lab Section | Qualifier | Description |
|----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| GC/MS VOA | U | Analyzed for but not detected. |
| | * | LCS or LCSD is outside acceptance limits. |
| GC/MS Semi VOA | U | Analyzed for but not detected. |
| | * | MS or MSD is outside acceptance limits. |
| GC Semi VOA | U | Analyzed for but not detected. |
| | * | Surrogate is outside acceptance limits. |
| | p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |
| 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 |
| | N | Spiked sample recovery is not within control limits. |

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|----------------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Prep Batch: 460-352545 | | | | | |
| LB3 460-352545/1-A | Neutral Leach or MeOH Extraction Blank | T | Solid | 5035 | |
| 460-109332-1 | 110Sand_EAR FILL1 | T | Solid | 5035 | |
| 460-109332-2 | 110Sand_EAR FILL2 | T | Solid | 5035 | |
| Analysis Batch:460-352836 | | | | | |
| LCS 460-352836/3 | Lab Control Sample | T | Solid | 8260C | |
| LCSD 460-352836/4 | Lab Control Sample Duplicate | T | Solid | 8260C | |
| MB 460-352836/7 | Method Blank | T | Solid | 8260C | |
| LB3 460-352545/1-A | Neutral Leach or MeOH Extraction Blank | T | Solid | 8260C | 460-352545 |
| 460-109332-1 | 110Sand_EAR FILL1 | T | Solid | 8260C | 460-352545 |
| 460-109332-2 | 110Sand_EAR FILL2 | T | Solid | 8260C | 460-352545 |

Report Basis

T = Total

GC/MS Semi VOA

| | | | | | |
|----------------------------------|------------------------|---|-------|-------|------------|
| Prep Batch: 460-352715 | | | | | |
| LCS 460-352715/2-A | Lab Control Sample | T | Solid | 3546 | |
| LCS 460-352715/3-A | Lab Control Sample | T | Solid | 3546 | |
| MB 460-352715/1-A | Method Blank | T | Solid | 3546 | |
| 460-109268-E-1-C MS | Matrix Spike | T | Solid | 3546 | |
| 460-109268-E-1-D MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 3546 | |
| Analysis Batch:460-353026 | | | | | |
| LCS 460-352715/2-A | Lab Control Sample | T | Solid | 8270D | 460-352715 |
| LCS 460-352715/3-A | Lab Control Sample | T | Solid | 8270D | 460-352715 |
| MB 460-352715/1-A | Method Blank | T | Solid | 8270D | 460-352715 |
| 460-109268-E-1-C MS | Matrix Spike | T | Solid | 8270D | 460-352715 |
| 460-109268-E-1-D MSD | Matrix Spike Duplicate | T | Solid | 8270D | 460-352715 |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 8270D | 460-352715 |

Report Basis

T = Total

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Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|------------------------|--------------|---------------|--------|------------|
| GC Semi VOA | | | | | |
| Prep Batch: 460-352814 | | | | | |
| LCS 460-352814/2-A | Lab Control Sample | T | Solid | 3546 | |
| MB 460-352814/1-A | Method Blank | T | Solid | 3546 | |
| 460-109307-D-1-D MS | Matrix Spike | T | Solid | 3546 | |
| 460-109307-D-1-E MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 3546 | |
| Prep Batch: 460-352828 | | | | | |
| LCS 460-352828/2-A | Lab Control Sample | T | Solid | 3546 | |
| MB 460-352828/1-A | Method Blank | T | Solid | 3546 | |
| 460-109307-E-4-A MS | Matrix Spike | T | Solid | 3546 | |
| 460-109307-E-4-B MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 3546 | |
| Analysis Batch:460-352869 | | | | | |
| LCS 460-352814/2-A | Lab Control Sample | T | Solid | 8081B | 460-352814 |
| MB 460-352814/1-A | Method Blank | T | Solid | 8081B | 460-352814 |
| 460-109307-D-1-D MS | Matrix Spike | T | Solid | 8081B | 460-352814 |
| 460-109307-D-1-E MSD | Matrix Spike Duplicate | T | Solid | 8081B | 460-352814 |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 8081B | 460-352814 |
| Analysis Batch:460-352877 | | | | | |
| LCS 460-352828/2-A | Lab Control Sample | T | Solid | 8082A | 460-352828 |
| MB 460-352828/1-A | Method Blank | T | Solid | 8082A | 460-352828 |
| 460-109307-E-4-A MS | Matrix Spike | T | Solid | 8082A | 460-352828 |
| 460-109307-E-4-B MSD | Matrix Spike Duplicate | T | Solid | 8082A | 460-352828 |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 8082A | 460-352828 |

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|----------------------------------|--------------|---------------|--------|------------|
| Metals | | | | | |
| Prep Batch: 460-352643 | | | | | |
| LCSSRM 460-352643/2-A ^4 | LCS-Certified Reference Material | T | Solid | 3050B | |
| MB 460-352643/1-A ^2 | Method Blank | T | Solid | 3050B | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 3050B | |
| 460-109332-3DU | Duplicate | T | Solid | 3050B | |
| 460-109332-3MS | Matrix Spike | T | Solid | 3050B | |
| Analysis Batch:460-352913 | | | | | |
| LCSSRM 460-352643/2-A ^4 | LCS-Certified Reference Material | T | Solid | 6010C | 460-352643 |
| MB 460-352643/1-A ^2 | Method Blank | T | Solid | 6010C | 460-352643 |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 6010C | 460-352643 |
| 460-109332-3DU | Duplicate | T | Solid | 6010C | 460-352643 |
| 460-109332-3MS | Matrix Spike | T | Solid | 6010C | 460-352643 |
| Prep Batch: 460-353060 | | | | | |
| LCSSRM 460-353060/2-A ^20 | LCS-Certified Reference Material | T | Solid | 7471B | |
| MB 460-353060/1-A | Method Blank | T | Solid | 7471B | |
| 460-109259-B-91-M DU | Duplicate | T | Solid | 7471B | |
| 460-109259-B-91-N MS | Matrix Spike | T | Solid | 7471B | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 7471B | |
| Analysis Batch:460-353166 | | | | | |
| LCSSRM 460-353060/2-A ^20 | LCS-Certified Reference Material | T | Solid | 7471B | 460-353060 |
| MB 460-353060/1-A | Method Blank | T | Solid | 7471B | 460-353060 |
| 460-109259-B-91-M DU | Duplicate | T | Solid | 7471B | 460-353060 |
| 460-109259-B-91-N MS | Matrix Spike | T | Solid | 7471B | 460-353060 |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | 7471B | 460-353060 |

Report Basis

T = Total

General Chemistry

| | | | | | |
|----------------------------------|-----------------------|---|-------|----------|--|
| Analysis Batch:460-352499 | | | | | |
| 460-109312-B-1 DU | Duplicate | T | Solid | Moisture | |
| 460-109332-1 | 110Sand_EAR FILL1 | T | Solid | Moisture | |
| 460-109332-2 | 110Sand_EAR FILL2 | T | Solid | Moisture | |
| 460-109332-3 | 110Sand_EAR Composite | T | Solid | Moisture | |

Report Basis

T = Total

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Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

| Lab Sample ID | Client Sample ID | DCA %Rec | BFB %Rec | DBFM %Rec | TOL %Rec |
|--------------------|-------------------|-------------|-------------|--------------|-------------|
| 460-109332-1 | 110Sand_EAR FILL1 | 98 | 93 | 99 | 90 |
| 460-109332-2 | 110Sand_EAR FILL2 | 97 | 94 | 98 | 91 |
| MB 460-352836/7 | | 109 | 104 | 105 | 100 |
| LB3 460-352545/1-A | | 100 | 96 | 101 | 95 |
| LCS 460-352836/3 | | 103 | 97 | 108 | 96 |
| LCSD 460-352836/4 | | 104 | 99 | 105 | 97 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| DCA = 1,2-Dichloroethane-d4 (Surr) | 78-135 |
| BFB = 4-Bromofluorobenzene | 67-126 |
| DBFM = Dibromofluoromethane (Surr) | 61-149 |
| TOL = Toluene-d8 (Surr) | 73-121 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

| Lab Sample ID | Client Sample ID | TBP %Rec | FBP %Rec | 2FP %Rec | NBZ %Rec | PHL %Rec | TPH %Rec |
|-------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 460-109332-3 | 110Sand_EAR Composite | 61 | 72 | 68 | 76 | 73 | 99 |
| MB 460-352715/1-A | | 70 | 78 | 76 | 88 | 85 | 104 |
| LCS 460-352715/2-A | | 79 | 82 | 75 | 88 | 85 | 98 |
| LCS 460-352715/3-A | | 73 | 80 | 77 | 91 | 83 | 107 |
| 460-109268-E-1-C MS | | 58 | 71 | 65 | 75 | 73 | 92 |
| 460-109268-E-1-D MSD | | 56 | 62 | 58 | 63 | 64 | 81 |

| Surrogate | Acceptance Limits |
|-----------------------------------|-------------------|
| TBP = 2,4,6-Tribromophenol (Surr) | 10-95 |
| FBP = 2-Fluorobiphenyl | 27-84 |
| 2FP = 2-Fluorophenol (Surr) | 21-84 |
| NBZ = Nitrobenzene-d5 (Surr) | 28-92 |
| PHL = Phenol-d5 (Surr) | 22-88 |
| TPH = Terphenyl-d14 (Surr) | 16-114 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Surrogate Recovery Report

8081B Organochlorine Pesticides (GC)

Client Matrix: Solid

| Lab Sample ID | Client Sample ID | DCB1 %Rec | DCB2 %Rec | TCX1 %Rec | TCX2 %Rec |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|
| 460-109332-3 | 110Sand_EAR Composite | 116 | 118 | 265* | 109p |
| MB 460-352814/1-A | | 111 | 111 | 107 | 113 |
| LCS 460-352814/2-A | | 106 | 110 | 130 | 106 |
| 460-109307-D-1-D MS | | 108 | 112 | 101 | 119 |
| 460-109307-D-1-E MSD | | 118 | 118 | 109 | 110 |

| Surrogate | Acceptance Limits |
|------------------------------|-------------------|
| DCB = DCB Decachlorobiphenyl | 55-148 |
| TCX = Tetrachloro-m-xylene | 55-139 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

| Lab Sample ID | Client Sample ID | DCB1 %Rec | DCB2 %Rec |
|-------------------------|--------------------------|--------------|--------------|
| 460-109332-3 | 110Sand_EAR Composite | 122 | 110 |
| MB 460-352828/1-A | | 105 | 104 |
| LCS 460-352828/2-A | | 148 | 114 |
| 460-109307-E-4-A MS | | 134 | 138 |
| 460-109307-E-4-B MSD | | 139 | 115 |

Surrogate

Acceptance Limits

DCB = DCB Decachlorobiphenyl

47-150

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Neutral Leach or MeOH Extraction Blank - Batch: 460-352545

Method: 8260C

Preparation: 5035

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|----------|
| Lab Sample ID: | LB3 460-352545/1-A | Analysis Batch: | 460-352836 | Instrument ID: | CVOAMS4 |
| Client Matrix: | Solid | Prep Batch: | 460-352545 | Lab File ID: | D19938.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 02/27/2016 0804 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 02/25/2016 2031 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---------------------------------------|--------|------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.17 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.44 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.34 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.41 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.11 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.32 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.47 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.11 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.17 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.12 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,4-Dioxane | 20 | U | 6.4 | 20 |
| 2-Butanone (MEK) | 5.0 | U | 0.77 | 5.0 |
| 2-Hexanone | 5.0 | U | 0.94 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.2 | 5.0 |
| Acetone | 5.0 | U | 1.1 | 5.0 |
| Benzene | 1.0 | U | 0.20 | 1.0 |
| Bromoform | 1.0 | U | 0.13 | 1.0 |
| Bromomethane | 1.0 | U | 0.32 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.43 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.43 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.14 | 1.0 |
| Chlorobromomethane | 1.0 | U | 0.17 | 1.0 |
| Chlorodibromomethane | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.35 | 1.0 |
| Chloroform | 1.0 | U | 0.21 | 1.0 |
| Chloromethane | 1.0 | U | 0.38 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.22 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.15 | 1.0 |
| Cyclohexane | 1.0 | U | 0.46 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.38 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.32 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.18 | 1.0 |
| Ethylene Dibromide | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.17 | 1.0 |
| Methyl acetate | 5.0 | U | 0.90 | 5.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.17 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.50 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.32 | 1.0 |
| m-Xylene & p-Xylene | 1.0 | U | 0.11 | 1.0 |
| o-Xylene | 1.0 | U | 0.16 | 1.0 |
| Styrene | 1.0 | U | 0.15 | 1.0 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Neutral Leach or MeOH Extraction Blank - Batch: 460-352545

Method: 8260C
Preparation: 5035

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|----------|
| Lab Sample ID: | LB3 460-352545/1-A | Analysis Batch: | 460-352836 | Instrument ID: | CVOAMS4 |
| Client Matrix: | Solid | Prep Batch: | 460-352545 | Lab File ID: | D19938.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 02/27/2016 0804 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | 02/25/2016 2031 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---------------------------|--------|------|------|-----|
| Tetrachloroethene | 1.0 | U | 0.28 | 1.0 |
| Toluene | 1.0 | U | 0.19 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.39 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.10 | 1.0 |
| Trichloroethene | 1.0 | U | 0.26 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.34 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.39 | 1.0 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | 78 - 135 |
| 4-Bromofluorobenzene | 96 | 67 - 126 |
| Dibromofluoromethane (Surr) | 101 | 61 - 149 |
| Toluene-d8 (Surr) | 95 | 73 - 121 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352836

Method: 8260C Preparation: N/A

Lab Sample ID: MB 460-352836/7
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 02/27/2016 0729
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 460-352836
Prep Batch: N/A
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CVOAMS4
Lab File ID: D19937.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------------------|--------|------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.17 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.44 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.34 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.41 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.11 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.32 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.47 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.14 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.11 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.17 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.12 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.13 | 1.0 |
| 1,4-Dioxane | 20 | U | 6.4 | 20 |
| 2-Butanone (MEK) | 5.0 | U | 0.77 | 5.0 |
| 2-Hexanone | 5.0 | U | 0.94 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.2 | 5.0 |
| Acetone | 5.0 | U | 1.1 | 5.0 |
| Benzene | 1.0 | U | 0.20 | 1.0 |
| Bromoform | 1.0 | U | 0.13 | 1.0 |
| Bromomethane | 1.0 | U | 0.32 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.43 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.43 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.14 | 1.0 |
| Chlorobromomethane | 1.0 | U | 0.17 | 1.0 |
| Chlorodibromomethane | 1.0 | U | 0.15 | 1.0 |
| Chloroethane | 1.0 | U | 0.35 | 1.0 |
| Chloroform | 1.0 | U | 0.21 | 1.0 |
| Chloromethane | 1.0 | U | 0.38 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.22 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.15 | 1.0 |
| Cyclohexane | 1.0 | U | 0.46 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.38 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.32 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.18 | 1.0 |
| Ethylene Dibromide | 1.0 | U | 0.12 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.17 | 1.0 |
| Methyl acetate | 5.0 | U | 0.90 | 5.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.17 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.50 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.32 | 1.0 |
| m-Xylene & p-Xylene | 1.0 | U | 0.11 | 1.0 |
| o-Xylene | 1.0 | U | 0.16 | 1.0 |
| Styrene | 1.0 | U | 0.15 | 1.0 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352836

Method: 8260C
Preparation: N/A

Lab Sample ID: MB 460-352836/7
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 02/27/2016 0729
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 460-352836
Prep Batch: N/A
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CVOAMS4
Lab File ID: D19937.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------|--------|------|------|-----|
| Tetrachloroethene | 1.0 | U | 0.28 | 1.0 |
| Toluene | 1.0 | U | 0.19 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.39 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.10 | 1.0 |
| Trichloroethene | 1.0 | U | 0.26 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.34 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.39 | 1.0 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | 78 - 135 |
| 4-Bromofluorobenzene | 104 | 67 - 126 |
| Dibromofluoromethane (Surr) | 105 | 61 - 149 |
| Toluene-d8 (Surr) | 100 | 73 - 121 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-352836

Method: 8260C

Preparation: N/A

| | | |
|-------------------------------------|----------------------------|-----------------------------|
| LCS Lab Sample ID: LCS 460-352836/3 | Analysis Batch: 460-352836 | Instrument ID: CVOAMS4 |
| Client Matrix: Solid | Prep Batch: N/A | Lab File ID: D19933.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 02/27/2016 0539 | Units: ug/Kg | Final Weight/Volume: 5 mL |
| Prep Date: N/A | | 5 mL |
| Leach Date: N/A | | |

| | | |
|---------------------------------------|----------------------------|-----------------------------|
| LCSD Lab Sample ID: LCSD 460-352836/4 | Analysis Batch: 460-352836 | Instrument ID: CVOAMS4 |
| Client Matrix: Solid | Prep Batch: N/A | Lab File ID: D19934.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 02/27/2016 0603 | Units: ug/Kg | Final Weight/Volume: 5 mL |
| Prep Date: N/A | | 5 mL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---------------------------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | | | | | |
| 1,1,1-Trichloroethane | 115 | 116 | 78 - 139 | 1 | 30 | | |
| 1,1,2,2-Tetrachloroethane | 82 | 81 | 64 - 128 | 1 | 30 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 73 | 79 | 83 - 136 | 8 | 30 | * | * |
| 1,1,2-Trichloroethane | 93 | 92 | 76 - 118 | 1 | 30 | | |
| 1,1-Dichloroethane | 106 | 106 | 83 - 131 | 0 | 30 | | |
| 1,1-Dichloroethene | 101 | 105 | 80 - 120 | 4 | 30 | | |
| 1,2,3-Trichlorobenzene | 98 | 95 | 77 - 116 | 2 | 30 | | |
| 1,2,4-Trichlorobenzene | 99 | 97 | 77 - 116 | 2 | 30 | | |
| 1,2-Dibromo-3-Chloropropane | 89 | 87 | 63 - 131 | 2 | 30 | | |
| 1,2-Dichlorobenzene | 94 | 94 | 80 - 120 | 1 | 30 | | |
| 1,2-Dichloroethane | 107 | 105 | 75 - 132 | 1 | 30 | | |
| 1,2-Dichloropropane | 100 | 102 | 77 - 124 | 2 | 30 | | |
| 1,3-Dichlorobenzene | 94 | 93 | 80 - 120 | 0 | 30 | | |
| 1,4-Dichlorobenzene | 91 | 91 | 80 - 120 | 1 | 30 | | |
| 1,4-Dioxane | 84 | 86 | 80 - 128 | 2 | 30 | | |
| 2-Butanone (MEK) | 99 | 99 | 58 - 150 | 0 | 30 | | |
| 2-Hexanone | 97 | 96 | 75 - 137 | 1 | 30 | | |
| 4-Methyl-2-pentanone (MIBK) | 100 | 100 | 81 - 121 | 0 | 30 | | |
| Acetone | 100 | 102 | 66 - 150 | 2 | 30 | | |
| Benzene | 98 | 99 | 78 - 122 | 1 | 30 | | |
| Bromoform | 95 | 91 | 47 - 150 | 5 | 30 | | |
| Bromomethane | 115 | 115 | 74 - 125 | 0 | 30 | | |
| Carbon disulfide | 85 | 89 | 82 - 127 | 4 | 30 | | |
| Carbon tetrachloride | 118 | 116 | 62 - 150 | 1 | 30 | | |
| Chlorobenzene | 99 | 97 | 80 - 120 | 2 | 30 | | |
| Chlorobromomethane | 112 | 107 | 73 - 132 | 5 | 30 | | |
| Chlorodibromomethane | 96 | 95 | 68 - 132 | 2 | 30 | | |
| Chloroethane | 73 | 75 | 63 - 143 | 2 | 30 | | |
| Chloroform | 111 | 110 | 80 - 120 | 0 | 30 | | |
| Chloromethane | 101 | 102 | 73 - 130 | 1 | 30 | | |
| cis-1,2-Dichloroethene | 109 | 108 | 80 - 120 | 1 | 30 | | |
| cis-1,3-Dichloropropene | 93 | 94 | 75 - 118 | 1 | 30 | | |
| Cyclohexane | 114 | 111 | 77 - 137 | 3 | 30 | | |
| Dichlorobromomethane | 102 | 100 | 76 - 130 | 2 | 30 | | |
| Dichlorodifluoromethane | 118 | 115 | 73 - 122 | 3 | 30 | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-352836

Method: 8260C

Preparation: N/A

| | | |
|-------------------------------------|----------------------------|-----------------------------|
| LCS Lab Sample ID: LCS 460-352836/3 | Analysis Batch: 460-352836 | Instrument ID: CVOAMS4 |
| Client Matrix: Solid | Prep Batch: N/A | Lab File ID: D19933.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 02/27/2016 0539 | Units: ug/Kg | Final Weight/Volume: 5 mL |
| Prep Date: N/A | | 5 mL |
| Leach Date: N/A | | |

| | | |
|---------------------------------------|----------------------------|-----------------------------|
| LCSD Lab Sample ID: LCSD 460-352836/4 | Analysis Batch: 460-352836 | Instrument ID: CVOAMS4 |
| Client Matrix: Solid | Prep Batch: N/A | Lab File ID: D19934.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 02/27/2016 0603 | Units: ug/Kg | Final Weight/Volume: 5 mL |
| Prep Date: N/A | | 5 mL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---------------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | | | | | |
| Ethylbenzene | 103 | 100 | 80 - 120 | 3 | 30 | | |
| Ethylene Dibromide | 93 | 93 | 80 - 120 | 1 | 30 | | |
| Isopropylbenzene | 108 | 105 | 80 - 120 | 2 | 30 | | |
| Methyl acetate | 100 | 98 | 66 - 150 | 2 | 30 | | |
| Methyl tert-butyl ether | 89 | 89 | 80 - 120 | 0 | 30 | | |
| Methylcyclohexane | 118 | 116 | 84 - 127 | 2 | 30 | | |
| Methylene Chloride | 92 | 95 | 80 - 120 | 3 | 30 | | |
| m-Xylene & p-Xylene | 104 | 101 | 80 - 120 | 2 | 30 | | |
| o-Xylene | 102 | 101 | 80 - 120 | 1 | 30 | | |
| Styrene | 102 | 101 | 80 - 120 | 1 | 30 | | |
| Tetrachloroethene | 117 | 113 | 68 - 130 | 4 | 30 | | |
| Toluene | 99 | 100 | 80 - 120 | 0 | 30 | | |
| trans-1,2-Dichloroethene | 111 | 108 | 86 - 126 | 2 | 30 | | |
| trans-1,3-Dichloropropene | 91 | 90 | 73 - 118 | 2 | 30 | | |
| Trichloroethene | 110 | 111 | 80 - 120 | 1 | 30 | | |
| Trichlorofluoromethane | 97 | 102 | 73 - 134 | 6 | 30 | | |
| Vinyl chloride | 114 | 114 | 77 - 130 | 0 | 30 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|------------------------------|-----------|------------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | 104 | 78 - 135 |
| 4-Bromofluorobenzene | 97 | 99 | 67 - 126 |
| Dibromofluoromethane (Surr) | 108 | 105 | 61 - 149 |
| Toluene-d8 (Surr) | 96 | 97 | 73 - 121 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352715

Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-352715/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 02/29/2016 0328
Prep Date: 02/26/2016 1302
Leach Date: N/A

Analysis Batch: 460-353026
Prep Batch: 460-352715
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CBNAMS12
Lab File ID: L130955.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-----|-----|
| 1,1'-Biphenyl | 330 | U | 28 | 330 |
| 1,2,4,5-Tetrachlorobenzene | 330 | U | 25 | 330 |
| 2,2'-oxybis[1-chloropropane] | 330 | U | 14 | 330 |
| 2,3,4,6-Tetrachlorophenol | 330 | U | 31 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 33 | 330 |
| 2,4,6-Trichlorophenol | 130 | U | 9.4 | 130 |
| 2,4-Dichlorophenol | 130 | U | 7.8 | 130 |
| 2,4-Dimethylphenol | 330 | U | 73 | 330 |
| 2,4-Dinitrophenol | 270 | U | 250 | 270 |
| 2,4-Dinitrotoluene | 67 | U | 13 | 67 |
| 2,6-Dinitrotoluene | 67 | U | 18 | 67 |
| 2-Chloronaphthalene | 330 | U | 7.5 | 330 |
| 2-Chlorophenol | 330 | U | 8.4 | 330 |
| 2-Methylnaphthalene | 330 | U | 7.3 | 330 |
| 2-Methylphenol | 330 | U | 14 | 330 |
| 2-Nitroaniline | 330 | U | 11 | 330 |
| 2-Nitrophenol | 330 | U | 11 | 330 |
| 3,3'-Dichlorobenzidine | 130 | U | 37 | 130 |
| 3-Nitroaniline | 330 | U | 9.8 | 330 |
| 4,6-Dinitro-2-methylphenol | 270 | U | 88 | 270 |
| 4-Bromophenyl phenyl ether | 330 | U | 10 | 330 |
| 4-Chloro-3-methylphenol | 330 | U | 14 | 330 |
| 4-Chloroaniline | 330 | U | 8.5 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 9.9 | 330 |
| 4-Methylphenol | 330 | U | 9.0 | 330 |
| 4-Nitroaniline | 330 | U | 13 | 330 |
| 4-Nitrophenol | 670 | U | 160 | 670 |
| Acenaphthene | 330 | U | 8.0 | 330 |
| Acenaphthylene | 330 | U | 8.5 | 330 |
| Acetophenone | 330 | U | 7.2 | 330 |
| Anthracene | 330 | U | 31 | 330 |
| Atrazine | 130 | U | 15 | 130 |
| Benzaldehyde | 330 | U | 25 | 330 |
| Benzo[a]anthracene | 33 | U | 28 | 33 |
| Benzo[a]pyrene | 33 | U | 10 | 33 |
| Benzo[b]fluoranthene | 33 | U | 13 | 33 |
| Benzo[g,h,i]perylene | 330 | U | 19 | 330 |
| Benzo[k]fluoranthene | 33 | U | 14 | 33 |
| Bis(2-chloroethoxy)methane | 330 | U | 10 | 330 |
| Bis(2-chloroethyl)ether | 33 | U | 7.8 | 33 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 13 | 330 |
| Butyl benzyl phthalate | 330 | U | 10 | 330 |
| Caprolactam | 330 | U | 24 | 330 |
| Carbazole | 330 | U | 8.2 | 330 |
| Chrysene | 330 | U | 9.0 | 330 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352715

Method: 8270D Preparation: 3546

| | | | | | |
|----------------|-------------------|-----------------|------------|------------------------|-----------|
| Lab Sample ID: | MB 460-352715/1-A | Analysis Batch: | 460-353026 | Instrument ID: | CBNAMS12 |
| Client Matrix: | Solid | Prep Batch: | 460-352715 | Lab File ID: | L130955.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/29/2016 0328 | Units: | ug/Kg | Final Weight/Volume: | 1 mL |
| Prep Date: | 02/26/2016 1302 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---------------------------|--------|------|-----|-----|
| Dibenz(a,h)anthracene | 33 | U | 17 | 33 |
| Dibenzofuran | 330 | U | 10 | 330 |
| Diethyl phthalate | 330 | U | 9.4 | 330 |
| Dimethyl phthalate | 330 | U | 9.6 | 330 |
| Di-n-butyl phthalate | 330 | U | 9.9 | 330 |
| Di-n-octyl phthalate | 330 | U | 17 | 330 |
| Fluoranthene | 330 | U | 9.8 | 330 |
| Fluorene | 330 | U | 7.2 | 330 |
| Hexachlorobenzene | 33 | U | 13 | 33 |
| Hexachlorobutadiene | 67 | U | 9.3 | 67 |
| Hexachlorocyclopentadiene | 330 | U | 21 | 330 |
| Hexachloroethane | 33 | U | 12 | 33 |
| Indeno[1,2,3-cd]pyrene | 33 | U | 22 | 33 |
| Isophorone | 130 | U | 7.1 | 130 |
| Naphthalene | 330 | U | 8.4 | 330 |
| Nitrobenzene | 33 | U | 10 | 33 |
| N-Nitrosodi-n-propylamine | 33 | U | 11 | 33 |
| N-Nitrosodiphenylamine | 330 | U | 30 | 330 |
| Pentachlorophenol | 270 | U | 40 | 270 |
| Phenanthrene | 330 | U | 8.8 | 330 |
| Phenol | 330 | U | 11 | 330 |
| Pyrene | 330 | U | 15 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 2,4,6-Tribromophenol (Surr) | 70 | 10 - 95 |
| 2-Fluorobiphenyl | 78 | 27 - 84 |
| 2-Fluorophenol (Surr) | 76 | 21 - 84 |
| Nitrobenzene-d5 (Surr) | 88 | 28 - 92 |
| Phenol-d5 (Surr) | 85 | 22 - 88 |
| Terphenyl-d14 (Surr) | 104 | 16 - 114 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|-----------|
| Lab Sample ID: | LCS 460-352715/2-A | Analysis Batch: | 460-353026 | Instrument ID: | CBNAMS12 |
| Client Matrix: | Solid | Prep Batch: | 460-352715 | Lab File ID: | L130956.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/29/2016 0353 | Units: | ug/Kg | Final Weight/Volume: | 1 mL |
| Prep Date: | 02/26/2016 1302 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|----------|------|
| 1,1'-Biphenyl | 3330 | 2600 | 78 | 64 - 103 | |
| 1,2,4,5-Tetrachlorobenzene | 3330 | 2610 | 78 | 62 - 109 | |
| 2,2'-oxybis[1-chloropropane] | 3330 | 2450 | 74 | 42 - 119 | |
| 2,3,4,6-Tetrachlorophenol | 3330 | 2390 | 72 | 57 - 113 | |
| 2,4,5-Trichlorophenol | 3330 | 2590 | 78 | 59 - 105 | |
| 2,4,6-Trichlorophenol | 3330 | 2690 | 81 | 61 - 107 | |
| 2,4-Dichlorophenol | 3330 | 2700 | 81 | 59 - 99 | |
| 2,4-Dimethylphenol | 3330 | 2650 | 79 | 60 - 98 | |
| 2,4-Dinitrophenol | 6670 | 4670 | 70 | 26 - 137 | |
| 2,4-Dinitrotoluene | 3330 | 2640 | 79 | 61 - 118 | |
| 2,6-Dinitrotoluene | 3330 | 2610 | 78 | 63 - 112 | |
| 2-Chloronaphthalene | 3330 | 2580 | 78 | 63 - 102 | |
| 2-Chlorophenol | 3330 | 2550 | 77 | 58 - 95 | |
| 2-Methylnaphthalene | 3330 | 2610 | 78 | 64 - 102 | |
| 2-Methylphenol | 3330 | 2590 | 78 | 56 - 99 | |
| 2-Nitroaniline | 3330 | 2470 | 74 | 46 - 113 | |
| 2-Nitrophenol | 3330 | 2680 | 80 | 63 - 103 | |
| 3,3'-Dichlorobenzidine | 3330 | 1640 | 49 | 18 - 92 | |
| 3-Nitroaniline | 3330 | 1610 | 48 | 23 - 89 | |
| 4,6-Dinitro-2-methylphenol | 6670 | 5520 | 83 | 51 - 124 | |
| 4-Bromophenyl phenyl ether | 3330 | 2980 | 89 | 65 - 114 | |
| 4-Chloro-3-methylphenol | 3330 | 2740 | 82 | 58 - 108 | |
| 4-Chloroaniline | 3330 | 1390 | 42 | 10 - 82 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2560 | 77 | 63 - 107 | |
| 4-Methylphenol | 3330 | 2690 | 81 | 53 - 103 | |
| 4-Nitroaniline | 3330 | 2110 | 63 | 44 - 109 | |
| 4-Nitrophenol | 6670 | 4550 | 68 | 45 - 125 | |
| Acenaphthene | 3330 | 2560 | 77 | 59 - 102 | |
| Acenaphthylene | 3330 | 2570 | 77 | 63 - 102 | |
| Acetophenone | 3330 | 2620 | 79 | 56 - 107 | |
| Anthracene | 3330 | 2820 | 85 | 66 - 105 | |
| Benzo[a]anthracene | 3330 | 2710 | 81 | 65 - 106 | |
| Benzo[a]pyrene | 3330 | 2950 | 88 | 68 - 111 | |
| Benzo[b]fluoranthene | 3330 | 2940 | 88 | 67 - 116 | |
| Benzo[g,h,i]perylene | 3330 | 2810 | 84 | 49 - 124 | |
| Benzo[k]fluoranthene | 3330 | 2920 | 88 | 65 - 114 | |
| Bis(2-chloroethoxy)methane | 3330 | 2730 | 82 | 61 - 102 | |
| Bis(2-chloroethyl)ether | 3330 | 2700 | 81 | 58 - 102 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2850 | 85 | 60 - 125 | |
| Butyl benzyl phthalate | 3330 | 3010 | 90 | 62 - 123 | |
| Carbazole | 3330 | 2740 | 82 | 62 - 107 | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|-----------|
| Lab Sample ID: | LCS 460-352715/2-A | Analysis Batch: | 460-353026 | Instrument ID: | CBNAMS12 |
| Client Matrix: | Solid | Prep Batch: | 460-352715 | Lab File ID: | L130956.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/29/2016 0353 | Units: | ug/Kg | Final Weight/Volume: | 1 mL |
| Prep Date: | 02/26/2016 1302 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---------------------------|--------------|--------|--------|----------|------|
| Chrysene | 3330 | 2900 | 87 | 64 - 105 | |
| Dibenz(a,h)anthracene | 3330 | 3000 | 90 | 54 - 126 | |
| Dibenzofuran | 3330 | 2580 | 77 | 62 - 102 | |
| Diethyl phthalate | 3330 | 2530 | 76 | 61 - 110 | |
| Dimethyl phthalate | 3330 | 2630 | 79 | 64 - 108 | |
| Di-n-butyl phthalate | 3330 | 2730 | 82 | 62 - 114 | |
| Di-n-octyl phthalate | 3330 | 3130 | 94 | 52 - 137 | |
| Fluoranthene | 3330 | 2570 | 77 | 59 - 109 | |
| Fluorene | 3330 | 2520 | 75 | 65 - 108 | |
| Hexachlorobenzene | 3330 | 2760 | 83 | 65 - 117 | |
| Hexachlorobutadiene | 3330 | 2670 | 80 | 60 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 2620 | 79 | 37 - 119 | |
| Hexachloroethane | 3330 | 2450 | 74 | 60 - 94 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2770 | 83 | 50 - 134 | |
| Isophorone | 3330 | 2860 | 86 | 60 - 102 | |
| Naphthalene | 3330 | 2600 | 78 | 64 - 99 | |
| Nitrobenzene | 3330 | 2790 | 84 | 59 - 102 | |
| N-Nitrosodi-n-propylamine | 3330 | 2820 | 85 | 56 - 112 | |
| N-Nitrosodiphenylamine | 3330 | 2880 | 86 | 71 - 119 | |
| Pentachlorophenol | 6670 | 5410 | 81 | 47 - 115 | |
| Phenanthrene | 3330 | 2740 | 82 | 66 - 105 | |
| Phenol | 3330 | 2520 | 76 | 55 - 99 | |
| Pyrene | 3330 | 3090 | 93 | 55 - 126 | |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 2,4,6-Tribromophenol (Surr) | 79 | 10 - 95 |
| 2-Fluorobiphenyl | 82 | 27 - 84 |
| 2-Fluorophenol (Surr) | 75 | 21 - 84 |
| Nitrobenzene-d5 (Surr) | 88 | 28 - 92 |
| Phenol-d5 (Surr) | 85 | 22 - 88 |
| Terphenyl-d14 (Surr) | 98 | 16 - 114 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|-----------|
| Lab Sample ID: | LCS 460-352715/3-A | Analysis Batch: | 460-353026 | Instrument ID: | CBNAMS12 |
| Client Matrix: | Solid | Prep Batch: | 460-352715 | Lab File ID: | L130957.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/29/2016 0419 | Units: | ug/Kg | Final Weight/Volume: | 1 mL |
| Prep Date: | 02/26/2016 1302 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------|--------------|--------|--------|----------|------|
| Atrazine | 6670 | 6430 | 96 | 41 - 116 | |
| Benzaldehyde | 6670 | 5780 | 87 | 55 - 116 | |
| Caprolactam | 6670 | 6480 | 97 | 44 - 129 | |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 2,4,6-Tribromophenol (Surr) | 73 | 10 - 95 |
| 2-Fluorobiphenyl | 80 | 27 - 84 |
| 2-Fluorophenol (Surr) | 77 | 21 - 84 |
| Nitrobenzene-d5 (Surr) | 91 | 28 - 92 |
| Phenol-d5 (Surr) | 83 | 22 - 88 |
| Terphenyl-d14 (Surr) | 107 | 16 - 114 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109268-E-1-C MS | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130961.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0345 g |
| Analysis Date: 02/29/2016 0559 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109268-E-1-D MSD | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130962.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0641 g |
| Analysis Date: 02/29/2016 0624 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|------------------------------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| 1,1'-Biphenyl | 69 | 62 | 64 - 103 | 11 | 30 | | * |
| 1,2,4,5-Tetrachlorobenzene | 69 | 62 | 62 - 109 | 10 | 30 | | |
| 2,2'-oxybis[1-chloropropane] | 66 | 58 | 42 - 119 | 12 | 30 | | |
| 2,3,4,6-Tetrachlorophenol | 44 | 45 | 57 - 113 | 1 | 30 | * | * |
| 2,4,5-Trichlorophenol | 59 | 55 | 59 - 105 | 6 | 30 | | * |
| 2,4,6-Trichlorophenol | 64 | 59 | 61 - 107 | 9 | 30 | | * |
| 2,4-Dichlorophenol | 67 | 60 | 59 - 99 | 10 | 30 | | |
| 2,4-Dimethylphenol | 66 | 59 | 60 - 98 | 12 | 30 | | * |
| 2,4-Dinitrophenol | 5 | 6 | 26 - 137 | 8 | 30 | * | * |
| 2,4-Dinitrotoluene | 70 | 62 | 61 - 118 | 12 | 30 | | |
| 2,6-Dinitrotoluene | 72 | 60 | 63 - 112 | 18 | 30 | | * |
| 2-Chloronaphthalene | 68 | 62 | 63 - 102 | 9 | 30 | | * |
| 2-Chlorophenol | 68 | 61 | 58 - 95 | 12 | 30 | | |
| 2-Methylnaphthalene | 71 | 64 | 64 - 102 | 10 | 30 | | |
| 2-Methylphenol | 70 | 63 | 56 - 99 | 11 | 30 | | |
| 2-Nitroaniline | 65 | 57 | 46 - 113 | 14 | 30 | | |
| 2-Nitrophenol | 66 | 57 | 63 - 103 | 15 | 30 | | * |
| 3,3'-Dichlorobenzidine | 53 | 44 | 18 - 92 | 20 | 30 | | |
| 3-Nitroaniline | 55 | 48 | 23 - 89 | 13 | 30 | | |
| 4,6-Dinitro-2-methylphenol | 16 | 18 | 51 - 124 | 12 | 30 | * | * |
| 4-Bromophenyl phenyl ether | 81 | 70 | 65 - 114 | 15 | 30 | | |
| 4-Chloro-3-methylphenol | 70 | 63 | 58 - 108 | 11 | 30 | | |
| 4-Chloroaniline | 53 | 47 | 10 - 82 | 13 | 30 | | |
| 4-Chlorophenyl phenyl ether | 68 | 63 | 63 - 107 | 8 | 30 | | |
| 4-Methylphenol | 72 | 65 | 53 - 103 | 10 | 30 | | |
| 4-Nitroaniline | 44 | 41 | 44 - 109 | 6 | 30 | | * |
| 4-Nitrophenol | 47 | 45 | 45 - 125 | 4 | 30 | | |
| Acenaphthene | 69 | 63 | 59 - 102 | 10 | 30 | | |
| Acenaphthylene | 68 | 61 | 63 - 102 | 10 | 30 | | * |
| Acetophenone | 76 | 68 | 56 - 107 | 11 | 30 | | |
| Anthracene | 76 | 69 | 66 - 105 | 10 | 30 | | |
| Atrazine | 81 | 72 | 41 - 116 | 12 | 30 | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109268-E-1-C MS | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130961.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0345 g |
| Analysis Date: 02/29/2016 0559 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109268-E-1-D MSD | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130962.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0641 g |
| Analysis Date: 02/29/2016 0624 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------------------------|--------|-----|----------|-----|-----------|---------|----------|
| | MS | MSD | | | | | |
| Benzaldehyde | 72 | 61 | 55 - 116 | 17 | 30 | | |
| Benzo[a]anthracene | 70 | 63 | 65 - 106 | 11 | 30 | | * |
| Benzo[a]pyrene | 72 | 66 | 68 - 111 | 10 | 30 | | * |
| Benzo[b]fluoranthene | 72 | 73 | 67 - 116 | 0 | 30 | | |
| Benzo[g,h,i]perylene | 71 | 62 | 49 - 124 | 13 | 30 | | |
| Benzo[k]fluoranthene | 73 | 66 | 65 - 114 | 11 | 30 | | |
| Bis(2-chloroethoxy)methane | 72 | 65 | 61 - 102 | 10 | 30 | | |
| Bis(2-chloroethyl)ether | 76 | 68 | 58 - 102 | 11 | 30 | | |
| Bis(2-ethylhexyl) phthalate | 78 | 73 | 60 - 125 | 7 | 30 | | |
| Butyl benzyl phthalate | 84 | 75 | 62 - 123 | 13 | 30 | | |
| Caprolactam | 56 | 52 | 44 - 129 | 6 | 30 | | |
| Carbazole | 68 | 64 | 62 - 107 | 7 | 30 | | |
| Chrysene | 75 | 68 | 64 - 105 | 10 | 30 | | |
| Dibenz(a,h)anthracene | 76 | 66 | 54 - 126 | 14 | 30 | | |
| Dibenzofuran | 69 | 63 | 62 - 102 | 9 | 30 | | |
| Diethyl phthalate | 70 | 63 | 61 - 110 | 10 | 30 | | |
| Dimethyl phthalate | 71 | 63 | 64 - 108 | 11 | 30 | | * |
| Di-n-butyl phthalate | 74 | 67 | 62 - 114 | 10 | 30 | | |
| Di-n-octyl phthalate | 80 | 76 | 52 - 137 | 6 | 30 | | |
| Fluoranthene | 64 | 62 | 59 - 109 | 4 | 30 | | |
| Fluorene | 67 | 62 | 65 - 108 | 8 | 30 | | * |
| Hexachlorobenzene | 77 | 67 | 65 - 117 | 14 | 30 | | |
| Hexachlorobutadiene | 71 | 64 | 60 - 105 | 10 | 30 | | |
| Hexachlorocyclopentadiene | 62 | 47 | 37 - 119 | 26 | 30 | | |
| Hexachloroethane | 68 | 57 | 60 - 94 | 18 | 30 | | * |
| Indeno[1,2,3-cd]pyrene | 68 | 61 | 50 - 134 | 12 | 30 | | |
| Isophorone | 75 | 69 | 60 - 102 | 9 | 30 | | |
| Naphthalene | 70 | 63 | 64 - 99 | 11 | 30 | | * |
| Nitrobenzene | 70 | 59 | 59 - 102 | 17 | 30 | | |
| N-Nitrosodi-n-propylamine | 78 | 70 | 56 - 112 | 11 | 30 | | |
| N-Nitrosodiphenylamine | 78 | 69 | 71 - 119 | 13 | 30 | | * |
| Pentachlorophenol | 23 | 29 | 47 - 115 | 24 | 30 | * | * |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352715

Method: 8270D
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109268-E-1-C MS | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130961.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0345 g |
| Analysis Date: 02/29/2016 0559 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109268-E-1-D MSD | Analysis Batch: 460-353026 | Instrument ID: CBNAMS12 |
| Client Matrix: Solid | Prep Batch: 460-352715 | Lab File ID: L130962.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0641 g |
| Analysis Date: 02/29/2016 0624 | | Final Weight/Volume: 1 mL |
| Prep Date: 02/26/2016 1302 | | Injection Volume: 1 uL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|-----------------------------|----------|-----|-----------|-------------------|-----------|---------|----------|
| | MS | MSD | | | | | |
| Phenanthrene | 73 | 66 | 66 - 105 | 9 | 30 | | |
| Phenol | 66 | 58 | 55 - 99 | 12 | 30 | | |
| Pyrene | 87 | 77 | 55 - 126 | 12 | 30 | | |
| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits | | | |
| 2,4,6-Tribromophenol (Surr) | 58 | | 56 | 10 - 95 | | | |
| 2-Fluorobiphenyl | 71 | | 62 | 27 - 84 | | | |
| 2-Fluorophenol (Surr) | 65 | | 58 | 21 - 84 | | | |
| Nitrobenzene-d5 (Surr) | 75 | | 63 | 28 - 92 | | | |
| Phenol-d5 (Surr) | 73 | | 64 | 22 - 88 | | | |
| Terphenyl-d14 (Surr) | 92 | | 81 | 16 - 114 | | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352814

Method: 8081B Preparation: 3546

| | | | | | |
|----------------|-------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | MB 460-352814/1-A | Analysis Batch: | 460-352869 | Instrument ID: | CPESTGC4 |
| Client Matrix: | Solid | Prep Batch: | 460-352814 | Lab File ID: | P4191316.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 0832 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2235 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Result | Qual | MDL | RL |
|-----------------------|--------|------|------|-----|
| 4,4'-DDD | 6.7 | U | 0.88 | 6.7 |
| 4,4'-DDE | 6.7 | U | 0.97 | 6.7 |
| 4,4'-DDT | 6.7 | U | 0.69 | 6.7 |
| Aldrin | 6.7 | U | 0.81 | 6.7 |
| alpha-BHC | 2.0 | U | 0.61 | 2.0 |
| beta-BHC | 2.0 | U | 0.65 | 2.0 |
| Chlordane (technical) | 67 | U | 30 | 67 |
| delta-BHC | 2.0 | U | 0.73 | 2.0 |
| Dieldrin | 2.0 | U | 0.87 | 2.0 |
| Endosulfan I | 6.7 | U | 0.93 | 6.7 |
| Endosulfan II | 6.7 | U | 1.1 | 6.7 |
| Endosulfan sulfate | 6.7 | U | 0.78 | 6.7 |
| Endrin | 6.7 | U | 0.85 | 6.7 |
| Endrin aldehyde | 6.7 | U | 0.83 | 6.7 |
| Endrin ketone | 6.7 | U | 0.93 | 6.7 |
| gamma-BHC (Lindane) | 2.0 | U | 0.60 | 2.0 |
| Heptachlor | 6.7 | U | 0.86 | 6.7 |
| Heptachlor epoxide | 6.7 | U | 1.3 | 6.7 |
| Methoxychlor | 6.7 | U | 1.4 | 6.7 |
| Toxaphene | 67 | U | 20 | 67 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------|-------|-------------------|
| DCB Decachlorobiphenyl | 111 | 55 - 148 |
| Tetrachloro-m-xylene | 113 | 55 - 139 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------|-------|-------------------|
| DCB Decachlorobiphenyl | 111 | 55 - 148 |
| Tetrachloro-m-xylene | 107 | 55 - 139 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352814

Method: 8081B
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | LCS 460-352814/2-A | Analysis Batch: | 460-352869 | Instrument ID: | CPESTGC4 |
| Client Matrix: | Solid | Prep Batch: | 460-352814 | Lab File ID: | P4191317.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 0846 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2235 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|-------------------|----------|------|
| 4,4'-DDD | 133 | 131 | 98 | 61 - 140 | |
| 4,4'-DDE | 133 | 133 | 100 | 61 - 135 | |
| 4,4'-DDT | 133 | 137 | 103 | 59 - 133 | |
| Aldrin | 133 | 135 | 101 | 61 - 133 | |
| alpha-BHC | 133 | 136 | 102 | 61 - 137 | |
| beta-BHC | 133 | 133 | 100 | 59 - 136 | |
| delta-BHC | 133 | 136 | 102 | 60 - 139 | |
| Dieldrin | 133 | 130 | 97 | 61 - 137 | |
| Endosulfan I | 133 | 131 | 98 | 60 - 135 | |
| Endosulfan II | 133 | 131 | 98 | 61 - 130 | |
| Endosulfan sulfate | 133 | 141 | 106 | 60 - 129 | |
| Endrin | 133 | 126 | 95 | 59 - 133 | |
| Endrin aldehyde | 133 | 140 | 105 | 57 - 131 | |
| Endrin ketone | 133 | 144 | 108 | 57 - 138 | |
| gamma-BHC (Lindane) | 133 | 130 | 98 | 61 - 138 | |
| Heptachlor | 133 | 131 | 98 | 61 - 135 | |
| Heptachlor epoxide | 133 | 130 | 98 | 61 - 129 | |
| Methoxychlor | 133 | 141 | 106 | 60 - 129 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| DCB Decachlorobiphenyl | 110 | | 55 - 148 | | |
| Tetrachloro-m-xylene | 130 | | 55 - 139 | | |

Lab Control Sample - Batch: 460-352814

Method: 8081B
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | LCS 460-352814/2-A | Analysis Batch: | 460-352869 | Instrument ID: | CPESTGC4 |
| Client Matrix: | Solid | Prep Batch: | 460-352814 | Lab File ID: | P4191317.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 0846 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2235 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | SECONDARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|----------|------|
| 4,4'-DDD | 133 | 127 | 95 | 61 - 140 | |
| 4,4'-DDE | 133 | 125 | 94 | 61 - 135 | |
| 4,4'-DDT | 133 | 128 | 96 | 59 - 133 | |
| Aldrin | 133 | 130 | 97 | 61 - 133 | |
| alpha-BHC | 133 | 134 | 101 | 61 - 137 | |
| beta-BHC | 133 | 131 | 98 | 59 - 136 | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352814

Method: 8081B
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | LCS 460-352814/2-A | Analysis Batch: | 460-352869 | Instrument ID: | CPESTGC4 |
| Client Matrix: | Solid | Prep Batch: | 460-352814 | Lab File ID: | P4191317.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 0846 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2235 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | SECONDARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|-------------------|----------|------|
| delta-BHC | 133 | 133 | 100 | 60 - 139 | |
| Dieldrin | 133 | 130 | 97 | 61 - 137 | |
| Endosulfan I | 133 | 126 | 95 | 60 - 135 | |
| Endosulfan II | 133 | 126 | 94 | 61 - 130 | |
| Endosulfan sulfate | 133 | 127 | 95 | 60 - 129 | |
| Endrin | 133 | 122 | 92 | 59 - 133 | |
| Endrin aldehyde | 133 | 129 | 97 | 57 - 131 | |
| Endrin ketone | 133 | 135 | 101 | 57 - 138 | |
| gamma-BHC (Lindane) | 133 | 130 | 97 | 61 - 138 | |
| Heptachlor | 133 | 126 | 95 | 61 - 135 | |
| Heptachlor epoxide | 133 | 127 | 95 | 61 - 129 | |
| Methoxychlor | 133 | 124 | 93 | 60 - 129 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| DCB Decachlorobiphenyl | 106 | | 55 - 148 | | |
| Tetrachloro-m-xylene | 106 | | 55 - 139 | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352814

Method: 8081B
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109307-D-1-D MS | Analysis Batch: 460-352869 | Instrument ID: CPESTGC4 |
| Client Matrix: Solid | Prep Batch: 460-352814 | Lab File ID: P4191318.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0320 g |
| Analysis Date: 02/27/2016 0858 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2235 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: PRIMARY |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109307-D-1-E MSD | Analysis Batch: 460-352869 | Instrument ID: CPESTGC4 |
| Client Matrix: Solid | Prep Batch: 460-352814 | Lab File ID: P4191319.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0014 g |
| Analysis Date: 02/27/2016 0912 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2235 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: PRIMARY |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|------------------------|----------|-----|-----------|-------------------|-----------|---------|----------|
| | MS | MSD | | | | | |
| 4,4'-DDD | 97 | 110 | 61 - 140 | 14 | 30 | | |
| 4,4'-DDE | 98 | 106 | 61 - 135 | 9 | 30 | | |
| 4,4'-DDT | 96 | 108 | 59 - 133 | 12 | 30 | | |
| Aldrin | 97 | 112 | 61 - 133 | 15 | 30 | | |
| alpha-BHC | 99 | 114 | 61 - 137 | 14 | 30 | | |
| beta-BHC | 97 | 110 | 59 - 136 | 13 | 30 | | |
| delta-BHC | 99 | 115 | 60 - 139 | 15 | 30 | | |
| Dieldrin | 96 | 110 | 61 - 137 | 13 | 30 | | |
| Endosulfan I | 96 | 107 | 60 - 135 | 11 | 30 | | |
| Endosulfan II | 95 | 106 | 61 - 130 | 11 | 30 | | |
| Endosulfan sulfate | 95 | 104 | 60 - 129 | 10 | 30 | | |
| Endrin | 93 | 105 | 59 - 133 | 13 | 30 | | |
| Endrin aldehyde | 96 | 107 | 57 - 131 | 11 | 30 | | |
| Endrin ketone | 100 | 112 | 57 - 138 | 11 | 30 | | |
| gamma-BHC (Lindane) | 95 | 110 | 61 - 138 | 15 | 30 | | |
| Heptachlor | 95 | 110 | 61 - 135 | 15 | 30 | | |
| Heptachlor epoxide | 96 | 108 | 61 - 129 | 12 | 30 | | |
| Methoxychlor | 91 | 103 | 60 - 129 | 12 | 30 | | |
| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits | | | |
| DCB Decachlorobiphenyl | 112 | | 118 | 55 - 148 | | | |
| Tetrachloro-m-xylene | 119 | | 110 | 55 - 139 | | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352814

Method: 8081B
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109307-D-1-D MS | Analysis Batch: 460-352869 | Instrument ID: CPESTGC4 |
| Client Matrix: Solid | Prep Batch: 460-352814 | Lab File ID: P4191318.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0320 g |
| Analysis Date: 02/27/2016 0858 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2235 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: SECONDARY |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109307-D-1-E MSD | Analysis Batch: 460-352869 | Instrument ID: CPESTGC4 |
| Client Matrix: Solid | Prep Batch: 460-352814 | Lab File ID: P4191319.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0014 g |
| Analysis Date: 02/27/2016 0912 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2235 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: SECONDARY |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|------------------------|----------|-----|-----------|-------------------|-----------|---------|----------|
| | MS | MSD | | | | | |
| 4,4'-DDD | 95 | 105 | 61 - 140 | 10 | 30 | | |
| 4,4'-DDE | 94 | 106 | 61 - 135 | 12 | 30 | | |
| 4,4'-DDT | 95 | 107 | 59 - 133 | 12 | 30 | | |
| Aldrin | 96 | 104 | 61 - 133 | 9 | 30 | | |
| alpha-BHC | 98 | 107 | 61 - 137 | 9 | 30 | | |
| beta-BHC | 95 | 105 | 59 - 136 | 10 | 30 | | |
| delta-BHC | 98 | 107 | 60 - 139 | 9 | 30 | | |
| Dieldrin | 95 | 103 | 61 - 137 | 8 | 30 | | |
| Endosulfan I | 95 | 104 | 60 - 135 | 10 | 30 | | |
| Endosulfan II | 94 | 105 | 61 - 130 | 11 | 30 | | |
| Endosulfan sulfate | 93 | 104 | 60 - 129 | 12 | 30 | | |
| Endrin | 91 | 99 | 59 - 133 | 8 | 30 | | |
| Endrin aldehyde | 96 | 106 | 57 - 131 | 11 | 30 | | |
| Endrin ketone | 99 | 109 | 57 - 138 | 10 | 30 | | |
| gamma-BHC (Lindane) | 95 | 103 | 61 - 138 | 9 | 30 | | |
| Heptachlor | 93 | 101 | 61 - 135 | 9 | 30 | | |
| Heptachlor epoxide | 94 | 104 | 61 - 129 | 10 | 30 | | |
| Methoxychlor | 90 | 97 | 60 - 129 | 8 | 30 | | |
| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits | | | |
| DCB Decachlorobiphenyl | 108 | | 118 | 55 - 148 | | | |
| Tetrachloro-m-xylene | 101 | | 109 | 55 - 139 | | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352828

Method: 8082A Preparation: 3546

| | | | | | |
|----------------|-------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | MB 460-352828/1-A | Analysis Batch: | 460-352877 | Instrument ID: | CPESTGC8 |
| Client Matrix: | Solid | Prep Batch: | 460-352828 | Lab File ID: | 8F009854.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 1744 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2304 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Result | Qual | MDL | RL |
|----------------------------------|--------|------|-----|----|
| Aroclor 1016 | 67 | U | 8.9 | 67 |
| Aroclor 1221 | 67 | U | 8.9 | 67 |
| Aroclor 1232 | 67 | U | 8.9 | 67 |
| Aroclor 1242 | 67 | U | 8.9 | 67 |
| Aroclor 1248 | 67 | U | 8.9 | 67 |
| Aroclor 1254 | 67 | U | 9.2 | 67 |
| Aroclor 1260 | 67 | U | 9.2 | 67 |
| Aroclor 1268 | 67 | U | 9.2 | 67 |
| Aroclor-1262 | 67 | U | 9.2 | 67 |
| Polychlorinated biphenyls, Total | 67 | U | 9.2 | 67 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------|-------|-------------------|
| DCB Decachlorobiphenyl | 105 | 47 - 150 |
| Surrogate | % Rec | Acceptance Limits |
| DCB Decachlorobiphenyl | 104 | 47 - 150 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Lab Control Sample - Batch: 460-352828

Method: 8082A
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | LCS 460-352828/2-A | Analysis Batch: | 460-352877 | Instrument ID: | CPESTGC8 |
| Client Matrix: | Solid | Prep Batch: | 460-352828 | Lab File ID: | 8F009832.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 1124 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2304 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | PRIMARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|-------------------|----------|------|
| Aroclor 1016 | 333 | 410 | 123 | 70 - 149 | |
| Aroclor 1260 | 333 | 410 | 123 | 71 - 150 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| DCB Decachlorobiphenyl | 148 | | 47 - 150 | | |

Lab Control Sample - Batch: 460-352828

Method: 8082A
Preparation: 3546

| | | | | | |
|----------------|--------------------|-----------------|------------|------------------------|------------|
| Lab Sample ID: | LCS 460-352828/2-A | Analysis Batch: | 460-352877 | Instrument ID: | CPESTGC8 |
| Client Matrix: | Solid | Prep Batch: | 460-352828 | Lab File ID: | 8F009832.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 15.0000 g |
| Analysis Date: | 02/27/2016 1124 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 02/26/2016 2304 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | Column ID: | SECONDARY |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------|--------------|--------|-------------------|----------|------|
| Aroclor 1016 | 333 | 374 | 112 | 70 - 149 | |
| Aroclor 1260 | 333 | 335 | 101 | 71 - 150 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| DCB Decachlorobiphenyl | 114 | | 47 - 150 | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352828

Method: 8082A
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109307-E-4-A MS | Analysis Batch: 460-352877 | Instrument ID: CPESTGC8 |
| Client Matrix: Solid | Prep Batch: 460-352828 | Lab File ID: 8F009833.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0021 g |
| Analysis Date: 02/27/2016 1140 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2304 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: PRIMARY |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109307-E-4-B MSD | Analysis Batch: 460-352877 | Instrument ID: CPESTGC8 |
| Client Matrix: Solid | Prep Batch: 460-352828 | Lab File ID: 8F009834.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0040 g |
| Analysis Date: 02/27/2016 1156 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2304 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: PRIMARY |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|------------------------|----------|-----|-----------|-------------------|-----------|---------|----------|
| | MS | MSD | | | | | |
| Aroclor 1016 | 120 | 114 | 70 - 149 | 5 | 30 | | |
| Aroclor 1260 | 117 | 112 | 71 - 150 | 5 | 30 | | |
| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits | | | |
| DCB Decachlorobiphenyl | 138 | | 139 | 47 - 150 | | | |

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-352828

Method: 8082A
Preparation: 3546

| | | |
|---------------------------------------|----------------------------|----------------------------------|
| MS Lab Sample ID: 460-109307-E-4-A MS | Analysis Batch: 460-352877 | Instrument ID: CPESTGC8 |
| Client Matrix: Solid | Prep Batch: 460-352828 | Lab File ID: 8F009833.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0021 g |
| Analysis Date: 02/27/2016 1140 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2304 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: SECONDARY |

| | | |
|-----------------------------------------|----------------------------|----------------------------------|
| MSD Lab Sample ID: 460-109307-E-4-B MSD | Analysis Batch: 460-352877 | Instrument ID: CPESTGC8 |
| Client Matrix: Solid | Prep Batch: 460-352828 | Lab File ID: 8F009834.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 15.0040 g |
| Analysis Date: 02/27/2016 1156 | | Final Weight/Volume: 10 mL |
| Prep Date: 02/26/2016 2304 | | Injection Volume: 1 uL |
| Leach Date: N/A | | Column ID: SECONDARY |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|------------------------|----------|-----|-----------|-------------------|-----------|---------|----------|
| | MS | MSD | | | | | |
| Aroclor 1016 | 106 | 100 | 70 - 149 | 7 | 30 | | |
| Aroclor 1260 | 100 | 95 | 71 - 150 | 5 | 30 | | |
| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits | | | |
| DCB Decachlorobiphenyl | 134 | | 115 | 47 - 150 | | | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-352643

Method: 6010C

Preparation: 3050B

Lab Sample ID: MB 460-352643/1-A ^2
Client Matrix: Solid
Dilution: 2.0
Analysis Date: 02/27/2016 1847
Prep Date: 02/26/2016 0757
Leach Date: N/A

Analysis Batch: 460-352913
Prep Batch: 460-352643
Leach Batch: N/A
Units: mg/Kg

Instrument ID: ICP5
Lab File ID: 02272016.asc
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | MDL | RL |
|-----------|--------|------|------|------|
| Aluminum | 20.0 | U | 10.3 | 20.0 |
| Antimony | 2.0 | U | 0.79 | 2.0 |
| Arsenic | 1.5 | U | 0.49 | 1.5 |
| Barium | 20.0 | U | 0.72 | 20.0 |
| Beryllium | 0.20 | U | 0.17 | 0.20 |
| Cadmium | 0.40 | U | 0.21 | 0.40 |
| Calcium | 500 | U | 29.6 | 500 |
| Chromium | 1.0 | U | 0.48 | 1.0 |
| Cobalt | 5.0 | U | 0.58 | 5.0 |
| Copper | 2.5 | U | 0.65 | 2.5 |
| Iron | 15.0 | U | 11.3 | 15.0 |
| Lead | 1.0 | U | 0.39 | 1.0 |
| Magnesium | 500 | U | 25.0 | 500 |
| Manganese | 1.5 | U | 0.53 | 1.5 |
| Nickel | 4.0 | U | 0.73 | 4.0 |
| Potassium | 500 | U | 15.2 | 500 |
| Selenium | 2.0 | U | 0.69 | 2.0 |
| Silver | 1.0 | U | 0.18 | 1.0 |
| Sodium | 500 | U | 33.9 | 500 |
| Thallium | 2.0 | U | 0.89 | 2.0 |
| Vanadium | 5.0 | U | 0.50 | 5.0 |
| Zinc | 3.0 | U | 0.73 | 3.0 |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

LCS-Certified Reference Material - Batch: 460-352643

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-352643/2-~~A~~ Analysis Batch: 460-352913
 Client Matrix: Solid Prep Batch: 460-352643
 Dilution: 4.0 Leach Batch: N/A
 Analysis Date: 02/27/2016 1832 Units: mg/Kg
 Prep Date: 02/26/2016 0757
 Leach Date: N/A

Instrument ID: ICP5
 Lab File ID: 02272016.asc
 Initial Weight/Volume: 1.03 g
 Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------|--------|--------|--------------|------|
| Aluminum | 7930 | 6573 | 82.9 | 50.2 - 150.1 | |
| Antimony | 105 | 50.08 | 47.7 | 0.1 - 201.0 | |
| Arsenic | 98.5 | 99.34 | 100.9 | 77.8 - 122.8 | |
| Barium | 308 | 316.7 | 102.8 | 82.5 - 117.5 | |
| Beryllium | 66.0 | 67.38 | 102.1 | 83.0 - 116.8 | |
| Cadmium | 146 | 153.1 | 104.9 | 82.9 - 117.8 | |
| Calcium | 6610 | 6435 | 97.4 | 83.7 - 116.2 | |
| Chromium | 182 | 187.0 | 102.7 | 79.7 - 120.3 | |
| Cobalt | 162 | 172.4 | 106.4 | 83.3 - 116.0 | |
| Copper | 106 | 108.3 | 102.2 | 81.5 - 118.9 | |
| Iron | 14400 | 12360 | 85.8 | 44.1 - 155.6 | |
| Lead | 130 | 135.0 | 103.9 | 82.3 - 117.7 | |
| Magnesium | 2640 | 2429 | 92.0 | 75.8 - 124.6 | |
| Manganese | 410 | 440.0 | 107.3 | 81.2 - 119.0 | |
| Nickel | 149 | 162.2 | 108.8 | 82.6 - 117.4 | |
| Potassium | 2550 | 2351 | 92.2 | 69.0 - 130.6 | |
| Selenium | 154 | 152.3 | 98.9 | 77.9 - 122.1 | |
| Silver | 40.9 | 39.30 | 96.1 | 75.1 - 124.7 | |
| Sodium | 2480 | 2631 | 106.1 | 70.6 - 129.0 | |
| Thallium | 175 | 197.7 | 113.0 | 78.3 - 121.1 | |
| Vanadium | 96.7 | 92.49 | 95.6 | 77.2 - 123.1 | |
| Zinc | 191 | 197.7 | 103.5 | 83.2 - 116.8 | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Matrix Spike - Batch: 460-352643

Method: 6010C
Preparation: 3050B

| | | | | | |
|----------------|-----------------|-----------------|------------|------------------------|--------------|
| Lab Sample ID: | 460-109332-3 | Analysis Batch: | 460-352913 | Instrument ID: | ICP5 |
| Client Matrix: | Solid | Prep Batch: | 460-352643 | Lab File ID: | 02272016.asc |
| Dilution: | 4.0 | Leach Batch: | N/A | Initial Weight/Volume: | 1.09 g |
| Analysis Date: | 02/27/2016 1817 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 02/26/2016 0757 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------|--------------------|---|--------------|--------|--------|----------|------|
| Aluminum | 685 | | 191 | 1898 | 637 | 75 - 125 | N |
| Antimony | 4.1 | U | 47.6 | 42.73 | 90 | 75 - 125 | |
| Arsenic | 3.1 | U | 191 | 179.7 | 94 | 75 - 125 | |
| Barium | 2.8 | J | 191 | 192.6 | 100 | 75 - 125 | |
| Beryllium | 0.41 | U | 4.76 | 4.81 | 101 | 75 - 125 | |
| Cadmium | 0.81 | U | 4.76 | 4.68 | 98 | 75 - 125 | |
| Calcium | 119 | J | 1910 | 1930 | 95 | 75 - 125 | |
| Chromium | 2.1 | | 19.1 | 22.21 | 106 | 75 - 125 | |
| Cobalt | 10.2 | U | 47.6 | 49.03 | 103 | 75 - 125 | |
| Copper | 1.8 | J | 23.8 | 35.32 | 141 | 75 - 125 | N |
| Iron | 2000 | | 95.3 | 3637 | 1715 | 75 - 125 | 4 |
| Lead | 1.2 | J | 47.6 | 50.37 | 103 | 75 - 125 | |
| Magnesium | 169 | J | 1910 | 2200 | 107 | 75 - 125 | |
| Manganese | 47.7 | | 47.6 | 136.6 | 187 | 75 - 125 | N |
| Nickel | 8.1 | U | 47.6 | 51.02 | 107 | 75 - 125 | |
| Potassium | 64.9 | J | 1910 | 1799 | 91 | 75 - 125 | |
| Selenium | 4.1 | U | 191 | 178.4 | 94 | 75 - 125 | |
| Silver | 2.0 | U | 4.76 | 4.28 | 90 | 75 - 125 | |
| Sodium | 1020 | U | 1910 | 1871 | 98 | 75 - 125 | |
| Thallium | 4.1 | U | 191 | 197.4 | 104 | 75 - 125 | |
| Vanadium | 2.5 | J | 47.6 | 50.37 | 101 | 75 - 125 | |
| Zinc | 3.1 | J | 47.6 | 54.37 | 108 | 75 - 125 | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Duplicate - Batch: 460-352643

Method: 6010C
Preparation: 3050B

Lab Sample ID: 460-109332-3
Client Matrix: Solid
Dilution: 4.0
Analysis Date: 02/27/2016 1821
Prep Date: 02/26/2016 0757
Leach Date: N/A

Analysis Batch: 460-352913
Prep Batch: 460-352643
Leach Batch: N/A
Units: mg/Kg

Instrument ID: ICP5
Lab File ID: 02272016.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | | Result | RPD | Limit | Qual |
|-----------|--------------------|---|--------|-----|-------|------|
| Aluminum | 685 | | 726.6 | 6 | 20 | |
| Antimony | 4.1 | U | 4.0 | NC | 20 | U |
| Arsenic | 3.1 | U | 1.51 | NC | 20 | J |
| Barium | 2.8 | J | 2.38 | 17 | 20 | J |
| Beryllium | 0.41 | U | 0.40 | NC | 20 | U |
| Cadmium | 0.81 | U | 0.80 | NC | 20 | U |
| Calcium | 119 | J | 91.42 | 26 | 20 | J |
| Chromium | 2.1 | | 2.13 | 2 | 20 | |
| Cobalt | 10.2 | U | 10 | NC | 20 | U |
| Copper | 1.8 | J | 2.36 | 25 | 20 | J |
| Iron | 2000 | | 2094 | 4 | 20 | |
| Lead | 1.2 | J | 1.60 | 29 | 20 | J |
| Magnesium | 169 | J | 209.6 | 22 | 20 | J |
| Manganese | 47.7 | | 41.83 | 13 | 20 | |
| Nickel | 8.1 | U | 8.0 | NC | 20 | U |
| Potassium | 64.9 | J | 71.02 | 9 | 20 | J |
| Selenium | 4.1 | U | 4.0 | NC | 20 | U |
| Silver | 2.0 | U | 2.0 | NC | 20 | U |
| Sodium | 1020 | U | 998 | NC | 20 | U |
| Thallium | 4.1 | U | 4.0 | NC | 20 | U |
| Vanadium | 2.5 | J | 2.74 | 10 | 20 | J |
| Zinc | 3.1 | J | 3.42 | 10 | 20 | J |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Method Blank - Batch: 460-353060

Method: 7471B
Preparation: 7471B

| | | | | | |
|----------------|-------------------|-----------------|------------|------------------------|---------------|
| Lab Sample ID: | MB 460-353060/1-A | Analysis Batch: | 460-353166 | Instrument ID: | LEEMAN5 |
| Client Matrix: | Solid | Prep Batch: | 460-353060 | Lab File ID: | 353058HG1.PRN |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 0.60 g |
| Analysis Date: | 02/29/2016 1038 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 02/29/2016 0514 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---------|--------|------|-------|-------|
| Mercury | 0.017 | U | 0.012 | 0.017 |

LCS-Certified Reference Material - Batch: 460-353060

Method: 7471B
Preparation: 7471B

| | | | | | |
|----------------|-----------------------|-----------------|------------|------------------------|---------------|
| Lab Sample ID: | LCSSRM 460-353060/2-A | Analysis Batch: | 460-353166 | Instrument ID: | LEEMAN5 |
| Client Matrix: | Solid | Prep Batch: | 460-353060 | Lab File ID: | 353058HG1.PRN |
| Dilution: | 20 | Leach Batch: | N/A | Initial Weight/Volume: | 0.60 g |
| Analysis Date: | 02/29/2016 1040 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 02/29/2016 0514 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---------|--------------|--------|--------|--------------|------|
| Mercury | 7.10 | 7.13 | 100.5 | 73.7 - 126.3 | |

Matrix Spike - Batch: 460-353060

Method: 7471B
Preparation: 7471B

| | | | | | |
|----------------|----------------------|-----------------|------------|------------------------|---------------|
| Lab Sample ID: | 460-109259-B-91-N MS | Analysis Batch: | 460-353166 | Instrument ID: | LEEMAN5 |
| Client Matrix: | Solid | Prep Batch: | 460-353060 | Lab File ID: | 353058HG1.PRN |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 0.65 g |
| Analysis Date: | 02/29/2016 1045 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 02/29/2016 0514 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Spike Amount | Result | % Rec. | Limit | Qual |
|---------|--------------------|--------------|--------|--------|----------|------|
| Mercury | 0.017 U | 0.0828 | 0.0961 | 116 | 75 - 125 | |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Duplicate - Batch: 460-353060

Method: 7471B

Preparation: 7471B

Lab Sample ID: 460-109259-B-91-M DU
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 02/29/2016 1043
Prep Date: 02/29/2016 0514
Leach Date: N/A

Analysis Batch: 460-353166
Prep Batch: 460-353060
Leach Batch: N/A
Units: mg/Kg

Instrument ID: LEEMAN5
Lab File ID: 353058HG1.PRN
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

| Analyte | Sample Result/Qual | | Result | RPD | Limit | Qual |
|---------|--------------------|---|--------|-----|-------|------|
| Mercury | 0.017 | U | 0.017 | NC | 20 | U |

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-109332-1

Duplicate - Batch: 460-352499

**Method: Moisture
Preparation: N/A**

| | | | | | |
|----------------|-------------------|-----------------|------------|------------------------|-----------------------|
| Lab Sample ID: | 460-109312-B-1 DU | Analysis Batch: | 460-352499 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | |
| Analysis Date: | 02/25/2016 1554 | Units: | % | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|------------------|--------------------|--------|-----|-------|------|
| Percent Moisture | 11.1 | 13.3 | 18 | 20 | |
| Percent Solids | 88.9 | 86.7 | 2 | 20 | |

THE LEADER IN ENVIRONMENTAL TESTING

Page 1 of 1

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

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
6 = Other None, 7 = Other _____

460-109332 Chain of Custody

**3-Day
RUSH**

Special Instructions Category A deliverables requested

Water Metals Filtered (Yes/No)?

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

TAL - 0016 (0715)

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

b. 8/2.8 TR #6 voc.

1093332

TALS Sample Number[illegible][illegible]

Date:

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-109332-1

Login Number: 109332

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 | 2.8 ° 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. |