

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
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Tel: (708)534-5200

Laboratory Job ID: 500-166667-1

Client Project/Site: Rock River Sediment Removal, Janesville

**For:**

EnviroAnalytics Group LLC  
1515 Des Peres Rd.  
Suite 300  
Saint Louis, Missouri 63131

Attn: Riley Underwood



Authorized for release by:  
7/18/2019 5:28:33 PM

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



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# Case Narrative

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Job ID: 500-166667-1**

**Laboratory: Eurofins TestAmerica, Chicago**

## Narrative

### Job Narrative 500-166667-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/13/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.8° C.

#### GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: South Geo-bag #2 (500-166667-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: South Geo-bag #2 (500-166667-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: NE Geo-bag #2 (500-166667-3), South Geo-bag #1 (500-166667-4) and South Geo-bag #2 (500-166667-5).

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

#### GC Semi VOA

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Client Sample ID: Jotco sand cover

## Lab Sample ID: 500-166667-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4000		23	9.5	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.0		1.2	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	28		1.2	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.23	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.2		1.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.58	0.15	mg/Kg	1	☼	6010B	Total/NA
Copper	6.0		1.2	0.33	mg/Kg	1	☼	6010B	Total/NA
Iron	6800		23	12	mg/Kg	1	☼	6010B	Total/NA
Lead	3.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Manganese	200	F1	1.2	0.17	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.2		1.2	0.34	mg/Kg	1	☼	6010B	Total/NA
Strontium	16		0.58	0.023	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.58	0.14	mg/Kg	1	☼	6010B	Total/NA
Zinc	17		2.3	1.0	mg/Kg	1	☼	6010B	Total/NA
Chromium, trivalent	9.2		0.12	0.12	mg/Kg	1	☼	7196A	Total/NA

## Client Sample ID: Jotco soil cover

## Lab Sample ID: 500-166667-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5600		21	8.4	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.1		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	32		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	J B	0.21	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.2		1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.1		0.51	0.13	mg/Kg	1	☼	6010B	Total/NA
Copper	4.6		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Iron	6700		21	11	mg/Kg	1	☼	6010B	Total/NA
Lead	2.0		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Manganese	140		1.0	0.15	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.7		1.0	0.30	mg/Kg	1	☼	6010B	Total/NA
Strontium	4.2		0.51	0.021	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.51	0.12	mg/Kg	1	☼	6010B	Total/NA
Zinc	17		2.1	0.90	mg/Kg	1	☼	6010B	Total/NA
Chromium, trivalent	7.2		0.12	0.12	mg/Kg	1	☼	7196A	Total/NA

## Client Sample ID: NE Geo-bag #2

## Lab Sample ID: 500-166667-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.055	J	0.093	0.017	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.043	J	0.093	0.012	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.17		0.093	0.016	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.89		0.093	0.017	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.066	J	0.093	0.013	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.051	J	0.093	0.014	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.65		0.093	0.013	mg/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	0.067	J	0.19	0.023	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.098	J	0.19	0.017	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.45		0.19	0.025	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.46		0.19	0.036	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.57		0.19	0.040	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.26		0.19	0.060	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.22		0.19	0.055	mg/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Client Sample ID: NE Geo-bag #2 (Continued)

## Lab Sample ID: 500-166667-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chrysene - DL	0.52		0.19	0.051	mg/Kg	2	✳	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.077	J	0.19	0.036	mg/Kg	2	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.22		0.19	0.049	mg/Kg	2	✳	8270D	Total/NA
Pyrene - DL	0.84		0.19	0.037	mg/Kg	2	✳	8270D	Total/NA
Arsenic	3.0		2.5	0.86	mg/Kg	1	✳	6010B	Total/NA
Barium	310		2.5	0.29	mg/Kg	1	✳	6010B	Total/NA
Cadmium	1.5	B	0.50	0.091	mg/Kg	1	✳	6010B	Total/NA
Chromium	40		2.5	1.2	mg/Kg	1	✳	6010B	Total/NA
Lead	160		1.3	0.58	mg/Kg	1	✳	6010B	Total/NA
Selenium	2.9	B	2.5	1.5	mg/Kg	1	✳	6010B	Total/NA
Silver	2.6		1.3	0.33	mg/Kg	1	✳	6010B	Total/NA
Arsenic	0.0023	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Lead	0.0025	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Mercury	1.2		0.042	0.014	mg/Kg	1	✳	7471B	Total/NA

## Client Sample ID: South Geo-bag #1

## Lab Sample ID: 500-166667-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.018	J	0.10	0.018	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.025	J	0.10	0.013	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.073	J	0.10	0.017	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.21		0.10	0.014	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.25		0.10	0.027	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.45		0.10	0.019	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.023	J	0.10	0.014	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.018	J	0.10	0.015	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.26		0.10	0.014	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.49		0.10	0.020	mg/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	0.025	J	0.20	0.025	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene - DL	0.22		0.20	0.039	mg/Kg	2	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.28		0.20	0.043	mg/Kg	2	✳	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.15	J	0.20	0.065	mg/Kg	2	✳	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.10	J	0.20	0.059	mg/Kg	2	✳	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.048	J	0.20	0.039	mg/Kg	2	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.12	J	0.20	0.052	mg/Kg	2	✳	8270D	Total/NA
Arsenic	2.3	J	2.7	0.94	mg/Kg	1	✳	6010B	Total/NA
Barium	150		2.7	0.31	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.77	B	0.55	0.099	mg/Kg	1	✳	6010B	Total/NA
Chromium	28		2.7	1.4	mg/Kg	1	✳	6010B	Total/NA
Lead	47		1.4	0.63	mg/Kg	1	✳	6010B	Total/NA
Selenium	3.0	B	2.7	1.6	mg/Kg	1	✳	6010B	Total/NA
Silver	2.7		1.4	0.35	mg/Kg	1	✳	6010B	Total/NA
Mercury	1.5		0.045	0.015	mg/Kg	1	✳	7471B	Total/NA

## Client Sample ID: South Geo-bag #2

## Lab Sample ID: 500-166667-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.29	J	0.83	0.15	mg/Kg	10	✳	8270D	Total/NA
Anthracene	0.62	J	0.83	0.14	mg/Kg	10	✳	8270D	Total/NA
Benzo[a]anthracene	1.5		0.83	0.11	mg/Kg	10	✳	8270D	Total/NA
Chrysene	2.3		0.83	0.23	mg/Kg	10	✳	8270D	Total/NA
Fluoranthene	3.1		0.83	0.16	mg/Kg	10	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: South Geo-bag #2 (Continued)**

**Lab Sample ID: 500-166667-5**

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.39	J	0.83	0.12	mg/Kg	10	☼	8270D	Total/NA
Naphthalene	0.42	J	0.83	0.13	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene	3.1		0.83	0.12	mg/Kg	10	☼	8270D	Total/NA
Pyrene	3.7		0.83	0.17	mg/Kg	10	☼	8270D	Total/NA
1-Methylnaphthalene	0.67	J	1.7	0.20	mg/Kg	10	☼	8270D	Total/NA
2-Methylnaphthalene	0.85	J	1.7	0.15	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1.1	J	1.7	0.32	mg/Kg	20	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.7		1.7	0.36	mg/Kg	20	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.81	J	1.7	0.54	mg/Kg	20	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.56	J	1.7	0.49	mg/Kg	20	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.73	J	1.7	0.43	mg/Kg	20	☼	8270D	Total/NA
Arsenic	5.5		2.5	0.85	mg/Kg	1	☼	6010B	Total/NA
Barium	350		2.5	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.5	B	0.50	0.090	mg/Kg	1	☼	6010B	Total/NA
Chromium	53		2.5	1.2	mg/Kg	1	☼	6010B	Total/NA
Lead	240		1.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Selenium	2.4	J B	2.5	1.5	mg/Kg	1	☼	6010B	Total/NA
Silver	3.2		1.2	0.32	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.0035	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Mercury	2.1		0.042	0.014	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Method Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
D3987-85	ASTM Leaching Procedure	ASTM	TAL CHI

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

#### Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166667-1	Jotco sand cover	Solid	07/11/19 00:00	07/13/19 09:20	
500-166667-2	Jotco soil cover	Solid	07/11/19 00:00	07/13/19 09:20	
500-166667-3	NE Geo-bag #2	Solid	07/11/19 00:00	07/13/19 09:20	
500-166667-4	South Geo-bag #1	Solid	07/11/19 00:00	07/13/19 09:20	
500-166667-5	South Geo-bag #2	Solid	07/11/19 00:00	07/13/19 09:20	

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# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: Jotco sand cover**

**Lab Sample ID: 500-166667-1**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 85.2

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4000		23	9.5	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Arsenic	2.0		1.2	0.40	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Barium	28		1.2	0.13	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Cadmium	0.27	B	0.23	0.042	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Chromium	9.2		1.2	0.58	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Cobalt	2.9		0.58	0.15	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Copper	6.0		1.2	0.33	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Iron	6800		23	12	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Lead	3.2		0.58	0.27	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Manganese	200	F1	1.2	0.17	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Nickel	7.2		1.2	0.34	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Strontium	16		0.58	0.023	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Vanadium	14		0.58	0.14	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1
Zinc	17		2.3	1.0	mg/Kg	☼	07/16/19 15:35	07/17/19 10:02	1

**General Chemistry**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent	9.2		0.12	0.12	mg/Kg	☼		07/17/19 17:42	1

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: Jotco soil cover**

**Lab Sample ID: 500-166667-2**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 84.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5600		21	8.4	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Arsenic	2.1		1.0	0.35	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Barium	32		1.0	0.12	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Cadmium	0.14	J B	0.21	0.037	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Chromium	7.2		1.0	0.51	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Cobalt	2.1		0.51	0.13	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Copper	4.6		1.0	0.29	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Iron	6700		21	11	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Lead	2.0		0.51	0.24	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Manganese	140		1.0	0.15	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Nickel	5.7		1.0	0.30	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Strontium	4.2		0.51	0.021	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Vanadium	14		0.51	0.12	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1
Zinc	17		2.1	0.90	mg/Kg	☼	07/16/19 15:35	07/17/19 11:53	1

**General Chemistry**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent	7.2		0.12	0.12	mg/Kg	☼		07/17/19 17:42	1

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: NE Geo-bag #2**

**Lab Sample ID: 500-166667-3**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 35.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.055	J	0.093	0.017	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Acenaphthylene	0.043	J	0.093	0.012	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Anthracene	0.17		0.093	0.016	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Fluoranthene	0.89		0.093	0.017	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Fluorene	0.066	J	0.093	0.013	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Naphthalene	0.051	J	0.093	0.014	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
Phenanthrene	0.65		0.093	0.013	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
1-Methylnaphthalene	0.067	J	0.19	0.023	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1
2-Methylnaphthalene	0.098	J	0.19	0.017	mg/Kg	☼	07/16/19 17:12	07/17/19 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 147	07/16/19 17:12	07/17/19 19:49	1
Terphenyl-d14 (Surr)	108		42 - 157	07/16/19 17:12	07/17/19 19:49	1
2-Fluorobiphenyl (Surr)	75		43 - 145	07/16/19 17:12	07/17/19 19:49	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.45		0.19	0.025	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Benzo[a]pyrene	0.46		0.19	0.036	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Benzo[b]fluoranthene	0.57		0.19	0.040	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Benzo[g,h,i]perylene	0.26		0.19	0.060	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Benzo[k]fluoranthene	0.22		0.19	0.055	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Chrysene	0.52		0.19	0.051	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Dibenz(a,h)anthracene	0.077	J	0.19	0.036	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Indeno[1,2,3-cd]pyrene	0.22		0.19	0.049	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2
Pyrene	0.84		0.19	0.037	mg/Kg	☼	07/16/19 17:12	07/18/19 14:17	2

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 12:38	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 12:38	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 12:38	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 12:38	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 12:38	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 12:38	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 12:38	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 12:38	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 12:38	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 12:38	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 12:38	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 12:38	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	90		36 - 120	07/17/19 14:20	07/18/19 12:38	1

Eurolins TestAmerica, Chicago

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: NE Geo-bag #2**

**Lab Sample ID: 500-166667-3**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 35.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	105		40 - 145	07/17/19 14:20	07/18/19 12:38	1
2-Fluorobiphenyl (Surr)	84		34 - 110	07/17/19 14:20	07/18/19 12:38	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.016		0.046	0.016	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1221	<0.020		0.046	0.020	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1232	<0.020		0.046	0.020	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1242	<0.015		0.046	0.015	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1248	<0.018		0.046	0.018	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1254	<0.010		0.046	0.010	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1
PCB-1260	<0.023		0.046	0.023	mg/Kg	☼	07/16/19 07:42	07/16/19 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		49 - 129	07/16/19 07:42	07/16/19 16:40	1
DCB Decachlorobiphenyl	90		37 - 121	07/16/19 07:42	07/16/19 16:40	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		2.5	0.86	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Barium	310		2.5	0.29	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Cadmium	1.5	B	0.50	0.091	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Chromium	40		2.5	1.2	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Lead	160		1.3	0.58	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Selenium	2.9	B	2.5	1.5	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1
Silver	2.6		1.3	0.33	mg/Kg	☼	07/16/19 15:35	07/17/19 11:57	1

**Method: 6020A - Metals (ICP/MS) - ASTM Leach**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0023	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:25	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:25	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:25	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:25	1
Lead	0.0025	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:25	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:25	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:25	1

**Method: 7470A - Mercury (CVAA) - ASTM Leach**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 08:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.042	0.014	mg/Kg	☼	07/16/19 14:20	07/17/19 10:04	1

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: South Geo-bag #1**

**Lab Sample ID: 500-166667-4**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 32.2

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.018	J	0.10	0.018	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Acenaphthylene	0.025	J	0.10	0.013	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Anthracene	0.073	J	0.10	0.017	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Benzo[a]anthracene	0.21		0.10	0.014	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Chrysene	0.25		0.10	0.027	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Fluoranthene	0.45		0.10	0.019	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Fluorene	0.023	J	0.10	0.014	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Naphthalene	0.018	J	0.10	0.015	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Phenanthrene	0.26		0.10	0.014	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
Pyrene	0.49		0.10	0.020	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
1-Methylnaphthalene	0.025	J	0.20	0.025	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
2-Methylnaphthalene	<0.018		0.20	0.018	mg/Kg	☼	07/16/19 17:12	07/17/19 20:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	59		37 - 147				07/16/19 17:12	07/17/19 20:17	1
Terphenyl-d14 (Surr)	98		42 - 157				07/16/19 17:12	07/17/19 20:17	1
2-Fluorobiphenyl (Surr)	68		43 - 145				07/16/19 17:12	07/17/19 20:17	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.20	0.039	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2
Benzo[b]fluoranthene	0.28		0.20	0.043	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2
Benzo[g,h,i]perylene	0.15	J	0.20	0.065	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2
Benzo[k]fluoranthene	0.10	J	0.20	0.059	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2
Dibenz(a,h)anthracene	0.048	J	0.20	0.039	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2
Indeno[1,2,3-cd]pyrene	0.12	J	0.20	0.052	mg/Kg	☼	07/16/19 17:12	07/18/19 14:47	2

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 13:05	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 13:05	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 13:05	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 13:05	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 13:05	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:05	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 13:05	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 13:05	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 13:05	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 13:05	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 13:05	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 13:05	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 13:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	99		36 - 120				07/17/19 14:20	07/18/19 13:05	1

Eurolins TestAmerica, Chicago

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: South Geo-bag #1**

**Lab Sample ID: 500-166667-4**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 32.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	108		40 - 145	07/17/19 14:20	07/18/19 13:05	1
2-Fluorobiphenyl (Surr)	94		34 - 110	07/17/19 14:20	07/18/19 13:05	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.051	0.018	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1221	<0.022		0.051	0.022	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1232	<0.022		0.051	0.022	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1242	<0.017		0.051	0.017	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1248	<0.020		0.051	0.020	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1254	<0.011		0.051	0.011	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1
PCB-1260	<0.025		0.051	0.025	mg/Kg	☼	07/16/19 07:42	07/16/19 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		49 - 129	07/16/19 07:42	07/16/19 16:56	1
DCB Decachlorobiphenyl	81		37 - 121	07/16/19 07:42	07/16/19 16:56	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3	J	2.7	0.94	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Barium	150		2.7	0.31	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Cadmium	0.77	B	0.55	0.099	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Chromium	28		2.7	1.4	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Lead	47		1.4	0.63	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Selenium	3.0	B	2.7	1.6	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1
Silver	2.7		1.4	0.35	mg/Kg	☼	07/16/19 15:35	07/17/19 12:01	1

**Method: 6020A - Metals (ICP/MS) - ASTM Leach**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:29	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:29	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:29	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:29	1
Lead	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:29	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:29	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:29	1

**Method: 7470A - Mercury (CVAA) - ASTM Leach**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.045	0.015	mg/Kg	☼	07/16/19 14:20	07/17/19 10:08	1

# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: South Geo-bag #2**

**Lab Sample ID: 500-166667-5**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 39.3

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.29</b>	<b>J</b>	0.83	0.15	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
Acenaphthylene	<0.11		0.83	0.11	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Anthracene</b>	<b>0.62</b>	<b>J</b>	0.83	0.14	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Benzo[a]anthracene</b>	<b>1.5</b>		0.83	0.11	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Chrysene</b>	<b>2.3</b>		0.83	0.23	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
Dibenz(a,h)anthracene	<0.16		0.83	0.16	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Fluoranthene</b>	<b>3.1</b>		0.83	0.16	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Fluorene</b>	<b>0.39</b>	<b>J</b>	0.83	0.12	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Naphthalene</b>	<b>0.42</b>	<b>J</b>	0.83	0.13	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Phenanthrene</b>	<b>3.1</b>		0.83	0.12	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Pyrene</b>	<b>3.7</b>		0.83	0.17	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>1-Methylnaphthalene</b>	<b>0.67</b>	<b>J</b>	1.7	0.20	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>2-Methylnaphthalene</b>	<b>0.85</b>	<b>J</b>	1.7	0.15	mg/Kg	☼	07/16/19 17:12	07/17/19 20:44	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	97		37 - 147				07/16/19 17:12	07/17/19 20:44	10
Terphenyl-d14 (Surr)	151		42 - 157				07/16/19 17:12	07/17/19 20:44	10
2-Fluorobiphenyl (Surr)	110		43 - 145				07/16/19 17:12	07/17/19 20:44	10

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>1.1</b>	<b>J</b>	1.7	0.32	mg/Kg	☼	07/16/19 17:12	07/18/19 12:19	20
<b>Benzo[b]fluoranthene</b>	<b>1.7</b>		1.7	0.36	mg/Kg	☼	07/16/19 17:12	07/18/19 12:19	20
<b>Benzo[g,h,i]perylene</b>	<b>0.81</b>	<b>J</b>	1.7	0.54	mg/Kg	☼	07/16/19 17:12	07/18/19 12:19	20
<b>Benzo[k]fluoranthene</b>	<b>0.56</b>	<b>J</b>	1.7	0.49	mg/Kg	☼	07/16/19 17:12	07/18/19 12:19	20
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.73</b>	<b>J</b>	1.7	0.43	mg/Kg	☼	07/16/19 17:12	07/18/19 12:19	20

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 13:33	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 13:33	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 13:33	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 13:33	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 13:33	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 13:33	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 13:33	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 13:33	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 13:33	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 13:33	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 13:33	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 13:33	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 13:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	110		36 - 120				07/17/19 14:20	07/18/19 13:33	1

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# Client Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Client Sample ID: South Geo-bag #2

## Lab Sample ID: 500-166667-5

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 39.3

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	120		40 - 145	07/17/19 14:20	07/18/19 13:33	1
2-Fluorobiphenyl (Surr)	101		34 - 110	07/17/19 14:20	07/18/19 13:33	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.015		0.041	0.015	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1221	<0.018		0.041	0.018	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1232	<0.018		0.041	0.018	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1242	<0.013		0.041	0.013	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1248	<0.016		0.041	0.016	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1254	<0.0089		0.041	0.0089	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1
PCB-1260	<0.020		0.041	0.020	mg/Kg	☼	07/16/19 07:42	07/16/19 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		49 - 129	07/16/19 07:42	07/16/19 17:11	1
DCB Decachlorobiphenyl	90		37 - 121	07/16/19 07:42	07/16/19 17:11	1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		2.5	0.85	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Barium	350		2.5	0.28	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Cadmium	1.5	B	0.50	0.090	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Chromium	53		2.5	1.2	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Lead	240		1.2	0.58	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Selenium	2.4	J B	2.5	1.5	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1
Silver	3.2		1.2	0.32	mg/Kg	☼	07/16/19 15:35	07/17/19 10:41	1

### Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0035	J	0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:34	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:34	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:34	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:34	1
Lead	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:34	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:34	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:34	1

### Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 09:09	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.042	0.014	mg/Kg	☼	07/16/19 14:20	07/17/19 10:12	1



# Definitions/Glossary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Qualifiers

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# QC Association Summary

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## GC/MS Semi VOA

### Leach Batch: 495078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	D3987-85	
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	D3987-85	
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	D3987-85	
LB3 500-495078/1-C	Method Blank	ASTM Leach	Solid	D3987-85	

### Prep Batch: 495135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3 - DL	NE Geo-bag #2	Total/NA	Solid	3541	
500-166667-3	NE Geo-bag #2	Total/NA	Solid	3541	
500-166667-4 - DL	South Geo-bag #1	Total/NA	Solid	3541	
500-166667-4	South Geo-bag #1	Total/NA	Solid	3541	
500-166667-5 - DL	South Geo-bag #2	Total/NA	Solid	3541	
500-166667-5	South Geo-bag #2	Total/NA	Solid	3541	
MB 500-495135/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-495135/2-A	Lab Control Sample	Total/NA	Solid	3541	

### Analysis Batch: 495220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	Total/NA	Solid	8270D	495135
500-166667-4	South Geo-bag #1	Total/NA	Solid	8270D	495135
500-166667-5	South Geo-bag #2	Total/NA	Solid	8270D	495135

### Analysis Batch: 495235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-495135/1-A	Method Blank	Total/NA	Solid	8270D	495135
LCS 500-495135/2-A	Lab Control Sample	Total/NA	Solid	8270D	495135

### Prep Batch: 495313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	3510C	495078
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	3510C	495078
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	3510C	495078
LB3 500-495078/1-C	Method Blank	ASTM Leach	Solid	3510C	495078
MB 500-495313/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-495313/2-A	Lab Control Sample	Total/NA	Solid	3510C	

### Analysis Batch: 495440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	8270D	495313
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	8270D	495313
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	8270D	495313
LB3 500-495078/1-C	Method Blank	ASTM Leach	Solid	8270D	495313
MB 500-495313/1-A	Method Blank	Total/NA	Solid	8270D	495313
LCS 500-495313/2-A	Lab Control Sample	Total/NA	Solid	8270D	495313

### Analysis Batch: 495452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3 - DL	NE Geo-bag #2	Total/NA	Solid	8270D	495135
500-166667-4 - DL	South Geo-bag #1	Total/NA	Solid	8270D	495135
500-166667-5 - DL	South Geo-bag #2	Total/NA	Solid	8270D	495135

# QC Association Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## GC Semi VOA

### Prep Batch: 495001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	Total/NA	Solid	3541	
500-166667-4	South Geo-bag #1	Total/NA	Solid	3541	
500-166667-5	South Geo-bag #2	Total/NA	Solid	3541	
MB 500-495001/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-495001/3-A	Lab Control Sample	Total/NA	Solid	3541	

### Analysis Batch: 495021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	Total/NA	Solid	8082A	495001
500-166667-4	South Geo-bag #1	Total/NA	Solid	8082A	495001
500-166667-5	South Geo-bag #2	Total/NA	Solid	8082A	495001
MB 500-495001/1-A	Method Blank	Total/NA	Solid	8082A	495001
LCS 500-495001/3-A	Lab Control Sample	Total/NA	Solid	8082A	495001

## Metals

### Prep Batch: 495063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	Total/NA	Solid	7471B	
500-166667-4	South Geo-bag #1	Total/NA	Solid	7471B	
500-166667-5	South Geo-bag #2	Total/NA	Solid	7471B	
MB 500-495063/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-495063/13-A	Lab Control Sample	Total/NA	Solid	7471B	

### Leach Batch: 495078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	D3987-85	
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	D3987-85	
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	D3987-85	
LB3 500-495078/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB3 500-495078/1-D	Method Blank	ASTM Leach	Solid	D3987-85	

### Prep Batch: 495119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-1	Jotco sand cover	Total/NA	Solid	3050B	
500-166667-2	Jotco soil cover	Total/NA	Solid	3050B	
500-166667-3	NE Geo-bag #2	Total/NA	Solid	3050B	
500-166667-4	South Geo-bag #1	Total/NA	Solid	3050B	
500-166667-5	South Geo-bag #2	Total/NA	Solid	3050B	
MB 500-495119/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-495119/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-166667-1 MS	Jotco sand cover	Total/NA	Solid	3050B	
500-166667-1 MSD	Jotco sand cover	Total/NA	Solid	3050B	
500-166667-1 DU	Jotco sand cover	Total/NA	Solid	3050B	

### Analysis Batch: 495274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	Total/NA	Solid	7471B	495063
500-166667-4	South Geo-bag #1	Total/NA	Solid	7471B	495063
500-166667-5	South Geo-bag #2	Total/NA	Solid	7471B	495063
MB 500-495063/12-A	Method Blank	Total/NA	Solid	7471B	495063

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# QC Association Summary

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Metals (Continued)

### Analysis Batch: 495274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-495063/13-A	Lab Control Sample	Total/NA	Solid	7471B	495063

### Analysis Batch: 495303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-1	Jotco sand cover	Total/NA	Solid	6010B	495119
500-166667-2	Jotco soil cover	Total/NA	Solid	6010B	495119
500-166667-3	NE Geo-bag #2	Total/NA	Solid	6010B	495119
500-166667-4	South Geo-bag #1	Total/NA	Solid	6010B	495119
500-166667-5	South Geo-bag #2	Total/NA	Solid	6010B	495119
MB 500-495119/1-A	Method Blank	Total/NA	Solid	6010B	495119
LCS 500-495119/2-A	Lab Control Sample	Total/NA	Solid	6010B	495119
500-166667-1 MS	Jotco sand cover	Total/NA	Solid	6010B	495119
500-166667-1 MSD	Jotco sand cover	Total/NA	Solid	6010B	495119
500-166667-1 DU	Jotco sand cover	Total/NA	Solid	6010B	495119

### Prep Batch: 495317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	3010A	495078
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	3010A	495078
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	3010A	495078
LB3 500-495078/1-B	Method Blank	ASTM Leach	Solid	3010A	495078
LCS 500-495317/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 495326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	7470A	495078
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	7470A	495078
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	7470A	495078
LB3 500-495078/1-D	Method Blank	ASTM Leach	Solid	7470A	495078
MB 500-495326/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-495326/13-A	Lab Control Sample	Total/NA	Solid	7470A	

### Analysis Batch: 495474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	7470A	495326
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	7470A	495326
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	7470A	495326
LB3 500-495078/1-D	Method Blank	ASTM Leach	Solid	7470A	495326
MB 500-495326/12-A	Method Blank	Total/NA	Solid	7470A	495326
LCS 500-495326/13-A	Lab Control Sample	Total/NA	Solid	7470A	495326

### Analysis Batch: 495540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-3	NE Geo-bag #2	ASTM Leach	Solid	6020A	495317
500-166667-4	South Geo-bag #1	ASTM Leach	Solid	6020A	495317
500-166667-5	South Geo-bag #2	ASTM Leach	Solid	6020A	495317
LB3 500-495078/1-B	Method Blank	ASTM Leach	Solid	6020A	495317
LCS 500-495317/2-A	Lab Control Sample	Total/NA	Solid	6020A	495317

# QC Association Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## General Chemistry

### Analysis Batch: 494884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-1	Jotco sand cover	Total/NA	Solid	Moisture	
500-166667-2	Jotco soil cover	Total/NA	Solid	Moisture	
500-166667-3	NE Geo-bag #2	Total/NA	Solid	Moisture	
500-166667-4	South Geo-bag #1	Total/NA	Solid	Moisture	
500-166667-5	South Geo-bag #2	Total/NA	Solid	Moisture	

### Analysis Batch: 495349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166667-1	Jotco sand cover	Total/NA	Solid	7196A	
500-166667-2	Jotco soil cover	Total/NA	Solid	7196A	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Surrogate Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (37-147)	TPHL (42-157)	FBP (43-145)
500-166667-3	NE Geo-bag #2	70	108	75
500-166667-3 - DL	NE Geo-bag #2	68	102	82
500-166667-4	South Geo-bag #1	59	98	68
500-166667-4 - DL	South Geo-bag #1	64	96	78
500-166667-5	South Geo-bag #2	97	151	110
500-166667-5 - DL	South Geo-bag #2	0 D	0 D	0 D
LCS 500-495135/2-A	Lab Control Sample	80	84	77
MB 500-495135/1-A	Method Blank	81	93	80

#### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
TPHL = Terphenyl-d14 (Surr)  
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
LCS 500-495313/2-A	Lab Control Sample	103	110	101
MB 500-495313/1-A	Method Blank	106	117	99

#### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
TPHL = Terphenyl-d14 (Surr)  
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: ASTM Leach

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
500-166667-3	NE Geo-bag #2	90	105	84
500-166667-4	South Geo-bag #1	99	108	94
500-166667-5	South Geo-bag #2	110	120	101
LB3 500-495078/1-C	Method Blank	92	106	82

#### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
TPHL = Terphenyl-d14 (Surr)  
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-166667-3	NE Geo-bag #2	81	90
500-166667-4	South Geo-bag #1	80	81

Eurofins TestAmerica, Chicago

# Surrogate Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-166667-5	South Geo-bag #2	74	90
LCS 500-495001/3-A	Lab Control Sample	93	97
MB 500-495001/1-A	Method Blank	99	112

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: MB 500-495135/1-A**  
**Matrix: Solid**  
**Analysis Batch: 495235**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495135**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
1-Methylnaphthalene	<0.0081		0.067	0.0081	mg/Kg		07/16/19 17:12	07/17/19 14:05	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		07/16/19 17:12	07/17/19 14:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		37 - 147	07/16/19 17:12	07/17/19 14:05	1
Terphenyl-d14 (Surr)	93		42 - 157	07/16/19 17:12	07/17/19 14:05	1
2-Fluorobiphenyl (Surr)	80		43 - 145	07/16/19 17:12	07/17/19 14:05	1

**Lab Sample ID: LCS 500-495135/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495235**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495135**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.08		mg/Kg		81	65 - 124
Acenaphthylene	1.33	1.11		mg/Kg		83	68 - 120
Anthracene	1.33	1.09		mg/Kg		82	70 - 114
Benzo[a]anthracene	1.33	1.15		mg/Kg		86	67 - 122
Benzo[a]pyrene	1.33	1.14		mg/Kg		86	65 - 133
Benzo[b]fluoranthene	1.33	1.13		mg/Kg		85	69 - 129
Benzo[g,h,i]perylene	1.33	1.11		mg/Kg		83	72 - 131
Benzo[k]fluoranthene	1.33	1.07		mg/Kg		80	68 - 127
Chrysene	1.33	1.13		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	1.33	1.11		mg/Kg		83	64 - 131
Fluoranthene	1.33	1.12		mg/Kg		84	62 - 120
Fluorene	1.33	1.04		mg/Kg		78	62 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.14		mg/Kg		86	68 - 130
Naphthalene	1.33	1.06		mg/Kg		80	63 - 110
Phenanthrene	1.33	1.06		mg/Kg		79	62 - 120
Pyrene	1.33	1.14		mg/Kg		85	61 - 128
1-Methylnaphthalene	1.33	1.03		mg/Kg		77	68 - 111
2-Methylnaphthalene	1.33	0.994		mg/Kg		75	69 - 112



# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: LCS 500-495135/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495235**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495135**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	80		37 - 147
Terphenyl-d14 (Surr)	84		42 - 157
2-Fluorobiphenyl (Surr)	77		43 - 145

**Lab Sample ID: MB 500-495313/1-A**  
**Matrix: Solid**  
**Analysis Batch: 495440**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495313**

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.00036		0.0010	0.00036	mg/L		07/17/19 14:20	07/18/19 12:11	1
Acenaphthylene	<0.00032		0.0010	0.00032	mg/L		07/17/19 14:20	07/18/19 12:11	1
Anthracene	<0.00032		0.0010	0.00032	mg/L		07/17/19 14:20	07/18/19 12:11	1
Benzo[a]anthracene	<0.000044		0.00020	0.000044	mg/L		07/17/19 14:20	07/18/19 12:11	1
Benzo[a]pyrene	<0.000056		0.00020	0.000056	mg/L		07/17/19 14:20	07/18/19 12:11	1
Benzo[b]fluoranthene	<0.000058		0.00020	0.000058	mg/L		07/17/19 14:20	07/18/19 12:11	1
Benzo[g,h,i]perylene	<0.00042		0.0010	0.00042	mg/L		07/17/19 14:20	07/18/19 12:11	1
Benzo[k]fluoranthene	<0.000074		0.00020	0.000074	mg/L		07/17/19 14:20	07/18/19 12:11	1
Chrysene	<0.00014		0.00050	0.00014	mg/L		07/17/19 14:20	07/18/19 12:11	1
Dibenz(a,h)anthracene	<0.000064		0.00030	0.000064	mg/L		07/17/19 14:20	07/18/19 12:11	1
Fluoranthene	<0.00032		0.0010	0.00032	mg/L		07/17/19 14:20	07/18/19 12:11	1
Fluorene	<0.00038		0.0010	0.00038	mg/L		07/17/19 14:20	07/18/19 12:11	1
Indeno[1,2,3-cd]pyrene	<0.000084		0.00020	0.000084	mg/L		07/17/19 14:20	07/18/19 12:11	1
Naphthalene	<0.00030		0.0010	0.00030	mg/L		07/17/19 14:20	07/18/19 12:11	1
Phenanthrene	<0.00035		0.0010	0.00035	mg/L		07/17/19 14:20	07/18/19 12:11	1
Pyrene	<0.00048		0.0010	0.00048	mg/L		07/17/19 14:20	07/18/19 12:11	1
1-Methylnaphthalene	<0.00050		0.0020	0.00050	mg/L		07/17/19 14:20	07/18/19 12:11	1
2-Methylnaphthalene	<0.00013		0.0020	0.00013	mg/L		07/17/19 14:20	07/18/19 12:11	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	106		36 - 120	07/17/19 14:20	07/18/19 12:11	1
Terphenyl-d14 (Surr)	117		40 - 145	07/17/19 14:20	07/18/19 12:11	1
2-Fluorobiphenyl (Surr)	99		34 - 110	07/17/19 14:20	07/18/19 12:11	1

**Lab Sample ID: LCS 500-495313/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495313**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	0.0400	0.0375		mg/L		94	46 - 110
Acenaphthylene	0.0400	0.0379		mg/L		95	47 - 110
Anthracene	0.0400	0.0416		mg/L		104	67 - 110
Benzo[a]anthracene	0.0400	0.0424		mg/L		106	70 - 120
Benzo[a]pyrene	0.0400	0.0420		mg/L		105	70 - 120
Benzo[b]fluoranthene	0.0400	0.0404		mg/L		101	69 - 123
Benzo[g,h,i]perylene	0.0400	0.0461		mg/L		115	70 - 120
Benzo[k]fluoranthene	0.0400	0.0404		mg/L		101	70 - 120
Chrysene	0.0400	0.0427		mg/L		107	68 - 120
Dibenz(a,h)anthracene	0.0400	0.0474		mg/L		118	70 - 127

Euromins TestAmerica, Chicago

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: LCS 500-495313/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495313**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.0400	0.0432		mg/L		108	68 - 120
Fluorene	0.0400	0.0376		mg/L		94	53 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.0476		mg/L		119	65 - 133
Naphthalene	0.0400	0.0345		mg/L		86	36 - 110
Phenanthrene	0.0400	0.0416		mg/L		104	65 - 120
Pyrene	0.0400	0.0418		mg/L		105	70 - 110
1-Methylnaphthalene	0.0400	0.0332		mg/L		83	38 - 110
2-Methylnaphthalene	0.0400	0.0331		mg/L		83	34 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	103		36 - 120
Terphenyl-d14 (Surr)	110		40 - 145
2-Fluorobiphenyl (Surr)	101		34 - 110

**Lab Sample ID: LB3 500-495078/1-C**  
**Matrix: Solid**  
**Analysis Batch: 495440**

**Client Sample ID: Method Blank**  
**Prep Type: ASTM Leach**  
**Prep Batch: 495313**

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0036		0.010	0.0036	mg/L		07/17/19 14:20	07/18/19 14:00	1
Acenaphthylene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 14:00	1
Anthracene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 14:00	1
Benzo[a]anthracene	<0.00044		0.0020	0.00044	mg/L		07/17/19 14:20	07/18/19 14:00	1
Benzo[a]pyrene	<0.00056		0.0020	0.00056	mg/L		07/17/19 14:20	07/18/19 14:00	1
Benzo[b]fluoranthene	<0.00058		0.0020	0.00058	mg/L		07/17/19 14:20	07/18/19 14:00	1
Benzo[g,h,i]perylene	<0.0042		0.010	0.0042	mg/L		07/17/19 14:20	07/18/19 14:00	1
Benzo[k]fluoranthene	<0.00074		0.0020	0.00074	mg/L		07/17/19 14:20	07/18/19 14:00	1
Chrysene	<0.0014		0.0050	0.0014	mg/L		07/17/19 14:20	07/18/19 14:00	1
Dibenz(a,h)anthracene	<0.00064		0.0030	0.00064	mg/L		07/17/19 14:20	07/18/19 14:00	1
Fluoranthene	<0.0032		0.010	0.0032	mg/L		07/17/19 14:20	07/18/19 14:00	1
Fluorene	<0.0038		0.010	0.0038	mg/L		07/17/19 14:20	07/18/19 14:00	1
Indeno[1,2,3-cd]pyrene	<0.00084		0.0020	0.00084	mg/L		07/17/19 14:20	07/18/19 14:00	1
Naphthalene	<0.0030		0.010	0.0030	mg/L		07/17/19 14:20	07/18/19 14:00	1
Phenanthrene	<0.0035		0.010	0.0035	mg/L		07/17/19 14:20	07/18/19 14:00	1
Pyrene	<0.0048		0.010	0.0048	mg/L		07/17/19 14:20	07/18/19 14:00	1
1-Methylnaphthalene	<0.0050		0.020	0.0050	mg/L		07/17/19 14:20	07/18/19 14:00	1
2-Methylnaphthalene	<0.0013		0.020	0.0013	mg/L		07/17/19 14:20	07/18/19 14:00	1

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	92		36 - 120	07/17/19 14:20	07/18/19 14:00	1
Terphenyl-d14 (Surr)	106		40 - 145	07/17/19 14:20	07/18/19 14:00	1
2-Fluorobiphenyl (Surr)	82		34 - 110	07/17/19 14:20	07/18/19 14:00	1

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: MB 500-495001/1-A**  
**Matrix: Solid**  
**Analysis Batch: 495021**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495001**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0059		0.017	0.0059	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1221	<0.0073		0.017	0.0073	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1232	<0.0073		0.017	0.0073	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1242	<0.0055		0.017	0.0055	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1248	<0.0066		0.017	0.0066	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1254	<0.0036		0.017	0.0036	mg/Kg		07/16/19 07:42	07/16/19 14:21	1
PCB-1260	<0.0082		0.017	0.0082	mg/Kg		07/16/19 07:42	07/16/19 14:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		49 - 129	07/16/19 07:42	07/16/19 14:21	1
DCB Decachlorobiphenyl	112		37 - 121	07/16/19 07:42	07/16/19 14:21	1

**Lab Sample ID: LCS 500-495001/3-A**  
**Matrix: Solid**  
**Analysis Batch: 495021**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495001**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	0.167	0.161		mg/Kg		97	57 - 120
PCB-1260	0.167	0.158		mg/Kg		95	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		49 - 129
DCB Decachlorobiphenyl	97		37 - 121

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 500-495119/1-A**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<8.2		20	8.2	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Arsenic	<0.34		1.0	0.34	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Barium	<0.11		1.0	0.11	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Cadmium	0.105	J	0.20	0.036	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Cobalt	<0.13		0.50	0.13	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Selenium	0.767	J	1.0	0.59	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Copper	<0.28		1.0	0.28	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Silver	<0.13		0.50	0.13	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Iron	<10		20	10	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Lead	<0.23		0.50	0.23	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Manganese	<0.15		1.0	0.15	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Nickel	<0.29		1.0	0.29	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Strontium	<0.020		0.50	0.020	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Vanadium	<0.12		0.50	0.12	mg/Kg		07/16/19 15:35	07/17/19 09:54	1
Zinc	<0.88		2.0	0.88	mg/Kg		07/16/19 15:35	07/17/19 09:54	1

Eurofins TestAmerica, Chicago

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: LCS 500-495119/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	200	195		mg/Kg		97	80 - 120
Arsenic	10.0	8.99		mg/Kg		90	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Cadmium	5.00	4.69		mg/Kg		94	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Selenium	10.0	8.90		mg/Kg		89	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Silver	5.00	4.38		mg/Kg		88	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	9.22		mg/Kg		92	80 - 120
Manganese	50.0	49.1		mg/Kg		98	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Strontium	100	94.8		mg/Kg		95	80 - 120
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	48.1		mg/Kg		96	80 - 120

**Lab Sample ID: 500-166667-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Jotco sand cover**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	4000		198	6230	4	mg/Kg	☼	1151	75 - 125
Arsenic	2.0		9.88	11.5		mg/Kg	☼	96	75 - 125
Barium	28		198	233		mg/Kg	☼	104	75 - 125
Cadmium	0.27	B	4.94	4.77		mg/Kg	☼	91	75 - 125
Chromium	9.2		19.8	26.1		mg/Kg	☼	86	75 - 125
Cobalt	2.9		49.4	52.7		mg/Kg	☼	101	75 - 125
Selenium	0.78	J B	9.88	9.24		mg/Kg	☼	86	75 - 125
Copper	6.0		24.7	29.8		mg/Kg	☼	96	75 - 125
Silver	1.3		4.94	5.67		mg/Kg	☼	88	75 - 125
Iron	6800		98.8	6550	4	mg/Kg	☼	-268	75 - 125
Lead	3.2		9.88	13.3		mg/Kg	☼	103	75 - 125
Manganese	200	F1	49.4	248		mg/Kg	☼	107	75 - 125
Nickel	7.2		49.4	55.6		mg/Kg	☼	98	75 - 125
Strontium	16		98.8	103		mg/Kg	☼	88	75 - 125
Vanadium	14		49.4	59.6		mg/Kg	☼	93	75 - 125
Zinc	17		49.4	67.1		mg/Kg	☼	101	75 - 125

**Lab Sample ID: 500-166667-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Jotco sand cover**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	4000		202	6310	4	mg/Kg	☼	1164	75 - 125	1	20
Arsenic	2.0		10.1	11.9		mg/Kg	☼	98	75 - 125	4	20
Barium	28		202	239		mg/Kg	☼	104	75 - 125	2	20
Cadmium	0.27	B	5.05	4.82		mg/Kg	☼	90	75 - 125	1	20
Chromium	9.2		20.2	25.3		mg/Kg	☼	80	75 - 125	3	20

Eurofins TestAmerica, Chicago

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

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

**Lab Sample ID: 500-166667-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Jotco sand cover**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	2.9		50.5	53.7		mg/Kg	☼	101	75 - 125	2	20
Selenium	0.78	J B	10.1	8.85		mg/Kg	☼	80	75 - 125	4	20
Copper	6.0		25.3	29.7		mg/Kg	☼	94	75 - 125	0	20
Silver	1.3		5.05	5.79		mg/Kg	☼	88	75 - 125	2	20
Iron	6800		101	6680	4	mg/Kg	☼	-135	75 - 125	2	20
Lead	3.2		10.1	13.5		mg/Kg	☼	102	75 - 125	1	20
Manganese	200	F1	50.5	277	F1	mg/Kg	☼	163	75 - 125	11	20
Nickel	7.2		50.5	56.0		mg/Kg	☼	97	75 - 125	1	20
Strontium	16		101	106		mg/Kg	☼	89	75 - 125	3	20
Vanadium	14		50.5	62.5		mg/Kg	☼	97	75 - 125	5	20
Zinc	17		50.5	67.7		mg/Kg	☼	100	75 - 125	1	20

**Lab Sample ID: 500-166667-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 495303**

**Client Sample ID: Jotco sand cover**  
**Prep Type: Total/NA**  
**Prep Batch: 495119**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	4000		4570		mg/Kg	☼	14	20
Arsenic	2.0		1.72		mg/Kg	☼	15	20
Barium	28		35.1	F3	mg/Kg	☼	21	20
Cadmium	0.27	B	0.238		mg/Kg	☼	14	20
Chromium	9.2		6.49	F3	mg/Kg	☼	34	20
Cobalt	2.9		2.70		mg/Kg	☼	6	20
Selenium	0.78	J B	0.636	J	mg/Kg	☼	20	20
Copper	6.0		5.43		mg/Kg	☼	10	20
Silver	1.3		0.869	F5	mg/Kg	☼	42	20
Iron	6800		6130		mg/Kg	☼	11	20
Lead	3.2		4.07	F3	mg/Kg	☼	25	20
Manganese	200	F1	223		mg/Kg	☼	13	20
Nickel	7.2		5.79	F3	mg/Kg	☼	21	20
Strontium	16		15.9		mg/Kg	☼	2	20
Vanadium	14		12.5		mg/Kg	☼	8	20
Zinc	17		17.2		mg/Kg	☼	0.1	20

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-495317/2-A**  
**Matrix: Solid**  
**Analysis Batch: 495540**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495317**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0894		mg/L		89	80 - 120
Barium	0.500	0.480	J	mg/L		96	80 - 120
Cadmium	0.0500	0.0473		mg/L		95	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Selenium	0.100	0.0886		mg/L		89	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120

# QC Sample Results

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: LB3 500-495078/1-B**  
**Matrix: Solid**  
**Analysis Batch: 495540**

**Client Sample ID: Method Blank**  
**Prep Type: ASTM Leach**  
**Prep Batch: 495317**

Analyte	LB3	LB3	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:08	1
Barium	<0.050		0.50	0.050	mg/L		07/17/19 14:31	07/18/19 12:08	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/17/19 14:31	07/18/19 12:08	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:08	1
Lead	<0.0020		0.050	0.0020	mg/L		07/17/19 14:31	07/18/19 12:08	1
Selenium	<0.010		0.050	0.010	mg/L		07/17/19 14:31	07/18/19 12:08	1
Silver	<0.0050		0.025	0.0050	mg/L		07/17/19 14:31	07/18/19 12:08	1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-495326/12-A**  
**Matrix: Solid**  
**Analysis Batch: 495474**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495326**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 08:53	1

**Lab Sample ID: LCS 500-495326/13-A**  
**Matrix: Solid**  
**Analysis Batch: 495474**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495326**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00186		mg/L		93	80 - 120

**Lab Sample ID: LB3 500-495078/1-D**  
**Matrix: Solid**  
**Analysis Batch: 495474**

**Client Sample ID: Method Blank**  
**Prep Type: ASTM Leach**  
**Prep Batch: 495326**

Analyte	LB3	LB3	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		07/17/19 15:10	07/18/19 08:56	1

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-495063/12-A**  
**Matrix: Solid**  
**Analysis Batch: 495274**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 495063**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0056		0.017	0.0056	mg/Kg		07/16/19 14:20	07/17/19 09:21	1

**Lab Sample ID: LCS 500-495063/13-A**  
**Matrix: Solid**  
**Analysis Batch: 495274**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 495063**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.167	0.160		mg/Kg		96	80 - 120

# Lab Chronicle

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: Jotco sand cover**

**Lab Sample ID: 500-166667-1**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	494884	07/15/19 11:47	LWN	TAL CHI

**Client Sample ID: Jotco sand cover**

**Lab Sample ID: 500-166667-1**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			495119	07/16/19 15:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	495303	07/17/19 10:02	JEF	TAL CHI
Total/NA	Analysis	7196A		1	495349	07/17/19 17:42	PFK	TAL CHI

**Client Sample ID: Jotco soil cover**

**Lab Sample ID: 500-166667-2**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	494884	07/15/19 11:47	LWN	TAL CHI

**Client Sample ID: Jotco soil cover**

**Lab Sample ID: 500-166667-2**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			495119	07/16/19 15:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	495303	07/17/19 11:53	JEF	TAL CHI
Total/NA	Analysis	7196A		1	495349	07/17/19 17:42	PFK	TAL CHI

**Client Sample ID: NE Geo-bag #2**

**Lab Sample ID: 500-166667-3**

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3510C			495313	07/17/19 14:20	DAK	TAL CHI
ASTM Leach	Analysis	8270D		1	495440	07/18/19 12:38	AJD	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3010A			495317	07/17/19 14:31	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	495540	07/18/19 12:25	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	7470A			495326	07/17/19 15:10	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	495474	07/18/19 08:59	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	494884	07/15/19 11:47	LWN	TAL CHI



# Lab Chronicle

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Client Sample ID: NE Geo-bag #2

Lab Sample ID: 500-166667-3

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 35.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	2	495452	07/18/19 14:17	AJD	TAL CHI
Total/NA	Prep	3541			495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	495220	07/17/19 19:49	AJD	TAL CHI
Total/NA	Prep	3541			495001	07/16/19 07:42	DX	TAL CHI
Total/NA	Analysis	8082A		1	495021	07/16/19 16:40	BJH	TAL CHI
Total/NA	Prep	3050B			495119	07/16/19 15:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	495303	07/17/19 11:57	JEF	TAL CHI
Total/NA	Prep	7471B			495063	07/16/19 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	495274	07/17/19 10:04	MJG	TAL CHI

## Client Sample ID: South Geo-bag #1

Lab Sample ID: 500-166667-4

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3510C			495313	07/17/19 14:20	DAK	TAL CHI
ASTM Leach	Analysis	8270D		1	495440	07/18/19 13:05	AJD	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3010A			495317	07/17/19 14:31	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	495540	07/18/19 12:29	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	7470A			495326	07/17/19 15:10	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	495474	07/18/19 09:00	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	494884	07/15/19 11:47	LWN	TAL CHI

## Client Sample ID: South Geo-bag #1

Lab Sample ID: 500-166667-4

Date Collected: 07/11/19 00:00

Matrix: Solid

Date Received: 07/13/19 09:20

Percent Solids: 32.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	2	495452	07/18/19 14:47	AJD	TAL CHI
Total/NA	Prep	3541			495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D		1	495220	07/17/19 20:17	AJD	TAL CHI
Total/NA	Prep	3541			495001	07/16/19 07:42	DX	TAL CHI
Total/NA	Analysis	8082A		1	495021	07/16/19 16:56	BJH	TAL CHI
Total/NA	Prep	3050B			495119	07/16/19 15:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	495303	07/17/19 12:01	JEF	TAL CHI
Total/NA	Prep	7471B			495063	07/16/19 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	495274	07/17/19 10:08	MJG	TAL CHI



# Lab Chronicle

Client: EnviroAnalytics Group LLC  
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

**Client Sample ID: South Geo-bag #2**

**Lab Sample ID: 500-166667-5**

**Date Collected: 07/11/19 00:00**

**Matrix: Solid**

**Date Received: 07/13/19 09:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3510C			495313	07/17/19 14:20	DAK	TAL CHI
ASTM Leach	Analysis	8270D		1	495440	07/18/19 13:33	AJD	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	3010A			495317	07/17/19 14:31	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	495540	07/18/19 12:34	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			495078	07/16/19 12:04	GCA	TAL CHI
ASTM Leach	Prep	7470A			495326	07/17/19 15:10	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	495474	07/18/19 09:09	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	494884	07/15/19 11:47	LWN	TAL CHI

**Client Sample ID: South Geo-bag #2**

**Lab Sample ID: 500-166667-5**

**Date Collected: 07/11/19 00:00**

**Matrix: Solid**

**Date Received: 07/13/19 09:20**

**Percent Solids: 39.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	20	495452	07/18/19 12:19	AJD	TAL CHI
Total/NA	Prep	3541			495135	07/16/19 17:12	JP1	TAL CHI
Total/NA	Analysis	8270D		10	495220	07/17/19 20:44	AJD	TAL CHI
Total/NA	Prep	3541			495001	07/16/19 07:42	DX	TAL CHI
Total/NA	Analysis	8082A		1	495021	07/16/19 17:11	BJH	TAL CHI
Total/NA	Prep	3050B			495119	07/16/19 15:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	495303	07/17/19 10:41	JEF	TAL CHI
Total/NA	Prep	7471B			495063	07/16/19 14:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	495274	07/17/19 10:12	MJG	TAL CHI

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC  
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166667-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Chromium, trivalent

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Chain of Custody Record



<b>Client Information</b>	Sampler: Knapp, Jim D	Lab PM: Knapp, Jim D	Carrir 500-166667 COC	COC No: 500-66160-31136.1
Client Contact: Mr. Daniel Dunn	Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1

Company: EnviroAnalytics Group LLC	Due Date Requested:	<b>Analysis Requested</b>		Job #: <b>500-166667</b>	
Address: 1515 Des Peres Rd. Suite 300	TAT Requested (days): <b>3</b>	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540D - TSS 625 - PAHs 608_PCB - LL PCB's 1664B - Oil & Grease 200.7 - As,Pb,Zn 6010B, 7471B, 8082A, 8270D 6020A, 7470A, 8082A, 8270D All Metals (totals) ASTM Leach (RRA, PAHs)		Preservation Codes:	
City: Saint Louis	PO #: 7741			A - HCL	M - Hexane
State, Zip: MO, 63131	WO #:			B - NaOH	N - None
Phone: 314-835-2814(Tel)	Project #: 50014801			C - Zn Acetate	O - AsNaO2
Email: ddunn@enviroanalyticsgroup.com	SSOW#:	D - Nitric Acid	P - Na2O4S		
Project Name: Rock River Sediment Removal, Janesville		E - NaHSO4	Q - Na2SO3		
Site:		F - MeOH	R - Na2S2O3		
		G - Amchlor	S - H2SO4		
		H - Ascorbic Acid	T - TSP Dodecahydrate		
		I - Ice	U - Acetone		
		J - DI Water	V - MCAA		
		K - EDTA	W - pH 4-5		
		L - EDA	Z - other (specify)		
		Other:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - TSS	625 - PAHs	608_PCB - LL PCB's	1664B - Oil & Grease	200.7 - As,Pb,Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D	All Metals (totals)	ASTM Leach (RRA, PAHs)	Total Number of Containers	Special Instructions/Note:
1 Jotco sand cover	7/11/19		C	Solid													
2 Jotco soil cover			C	Solid													
3 NE Geo-bag #2			C	Solid								X		X			
4 South Geo-bag #1			C	Solid								X		X			
5 south Geo-bag #2			C	Solid								X		X			

<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by: <i>[Signature]</i>

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Control Temperature(s) °C and Other Remarks: <i>P.O.</i>
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# Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-166667-1

**Login Number: 166667**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: James, Jeff A**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

