



Weston Solutions, Inc.
1400 Weston Way
P.O. Box 2653
West Chester, Pennsylvania 19380
610-701-3000 • Fax 610-701-3186
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

July 14, 2014

Mr. Brian Sadowski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2915

W.O. No. 02181.086.021

Re: Semiannual Periodic Review Report (February 15, 2014 to June 30, 2014)
3M Tonawanda, New York Facility
Order on Consent # B9-0369-91-04, Site Code #915148

Dear Mr. Sadowski:

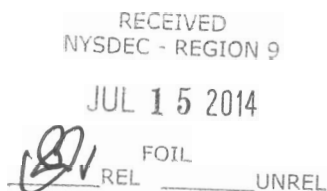
In accordance with the referenced Order on Consent (Order) and at 3M's direction, we are submitting the semiannual periodic review report for the 3M Tonawanda, NY facility for the period extending from February 15, 2014 to June 30, 2014.

Should you have any comments or questions, please contact me at 610-701-3677.

Very truly yours,

WESTON SOLUTIONS, INC.

Thomas A. Drew, P.G.
Principal Project Manager



c: G. May, NYSDEC (w/enclosure)
J. Pettinelli, 3M (w/ enclosure)
K. Held, 3M (w/ enclosure)



PERIODIC REVIEW REPORT

Site Name and Location:	3M Facility, Tonawanda, New York
Registry Number:	915148
Order on Consent:	B9-0369-91-04
3M Project Contacts:	Justin Pettinelli (3M Corporate) Keith Held (3M Tonawanda)
NYSDEC Project Lead:	Glenn May
Reporting Period:	February 15, 2014 to June 30, 2014

Background

The New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision (ROD) (Registry No. 915148) for the 3M facility in Tonawanda, New York. This ROD presents the selected remedial action for the Tonawanda facility based on the site's Administrative Record and public input. Following ROD issuance, the NYSDEC reclassified the 3M Tonawanda site from "Class 3 – Does not present a significant threat to the public health or environment – action may be deferred", to "Class 4 – Site properly closed – requires continued management."

3M is implementing the selected ROD remedy, No Further Action with Monitoring, under an Order on Consent (Index # B9-0369-91-04) (Order) according to the NYSDEC-approved Operation and Maintenance Work Plan (O&M Work Plan), which was made part of the Order. The original O&M Work Plan called for:

- Filing a Declaration of Covenants and Restrictions with the property deed at the Erie County Clerk's Office. This was completed and was reported in the initial progress report for the period ending March 31, 2001.
- Performing long-term groundwater monitoring. Involved semiannual sampling of site monitoring wells MW-1, MW-2, MW-3, and MW-4 and annual sampling of the two site lysimeters, LY-1 and LY-2, with groundwater samples analyzed for carbon disulfide (CS₂).

- Inspecting the completed interim remedial measures (IRMs) (includes the CS₂ tank system, and the catch basin and associated swale) and maintaining the integrity of the IRMs.

Semiannual periodic review reports have been submitted by 3M to NYSDEC and these reports summarize project activities that occurred in the previous reporting periods. In August 2005, the Five-Year Evaluation Report was submitted by 3M to NYSDEC and this report concluded that the selected remedy has been effective in meeting remediation goals outlined in the 1999 ROD and remains protective of human health and the environment. The aforementioned evaluation report also contained a recommended future course of action for the facility, including reductions in groundwater monitoring and reporting under the Order/O&M Plan.

By letter of May 18, 2006, NYSDEC provided comment on the Five-Year Evaluation Report. Based on the presence of CS₂ in the subsurface environment, NYSDEC required continued monitoring at this facility, but required only one site monitoring well (MW-4) and one site lysimeter (LY-2) be monitored for CS₂ on a semiannual basis and annual basis, respectively. According to the May 2006 NYSDEC correspondence, reporting on the maintenance of the drainage swale and associated catch basins would continue under the Order/O&M Plan; however, reporting on the continued operations, maintenance and inspection of the existing CS₂ tank system could be completed by 3M under NYSDEC's Chemical Bulk Storage Program.

This periodic review report reflects the O&M monitoring and reporting modifications agreed upon with NYSDEC. Sampling of the reduced monitoring network under the modified O&M Plan was completed in May 2014. The results from this sampling event are presented herein, along with a description of any maintenance activity conducted in the swale. Also, the analytical results presented in this PRR will be uploaded into NYSDEC's EQUIS system.

Summary of Activities Performed During the Reporting Period

The following is a summary of activities performed by 3M during the reporting period:

- Groundwater samples for CS₂ analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) and lysimeter LY-02 on May 28, 2014 in accordance with the O&M Plan modifications approved by NYSDEC. Laboratory analytical results from the May 2014 sampling event are provided in this report.
- No maintenance activity was conducted in the subject drainage swale during the reporting period. Vegetation and grading in this swale are in good condition.

Groundwater Monitoring Results

Summary of Carbon Disulfide Water Analytical Results (mg/L)

Sampling Date	Sample ID and Result		
	MW-4	MW-4 Duplicate	LY-02
5/28/2014	0.45 J	0.43 J	310

Notes: J –Result is less than the reporting limit of 5µg/L but greater than or equal to the method detection limit of 0.19 µg/L and the concentration is an approximate value.

As noted above, CS₂ was not detected above the reporting limit in the groundwater samples (primary and duplicate samples) collected from monitoring well MW-4 in May 2014. CS₂ was detected at a concentration of 310 mg/L in the pore water sample collected from lysimeter LY-02. This finding is consistent with previous sample results. A copy of the analytical data package and completed well purging/sampling form for the May 2014 sampling event is provided in Attachment A.



ATTACHMENT A
WELL PURGING/SAMPLING FORM AND
LABORATORY ANALYTICAL PACKAGE
MAY 2014 SAMPLING EVENT



Well Evacuation/Sampling Form

SITE INFORMATION <u>TOMAHAWANDA, NY</u> <u>5/28/14</u>									
Well No.: <u>MW-04</u>	Weather: <u>Sunny</u> / Cloudy / Rain Temp: <u>65</u>								
Sampling Team: <u>Greg Flaszski</u>	Sampler's Signature: <u>[Signature]</u>								
WELL INFORMATION									
Protective Casing: <input checked="" type="radio"/> Intact / <input type="radio"/> Damaged	Concrete Base: <input checked="" type="radio"/> Intact / <input type="radio"/> Damaged								
Locked: <input checked="" type="radio"/> YES / <input type="radio"/> NO	Well Diameter: <u>2"</u>								
WELL EVACUATION INFORMATION									
A. Total Depth (Top of Casing = TOC): <u>72.90</u>	Well Evacuation Method <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> 2-Inch Grundfos <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (Specify) _____								
B. Depth to Water (DTW) (TOC): <u>-31.18</u>									
C. Column of Standing Water (C=A-B): <u>41.72</u>									
D. Purge Factor: <u>x 0.14</u>									
E. One Well Volume: <u>6.68</u>									
F. Three Well Volumes (gallons): <u>20.03</u>	TOTAL VOLUME PURGED: <u>20</u>								
Sampled using LOW-FLOW									
INDICATOR PARAMETERS									
Time	1020	1032	1044	1056					
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	14.6	13.2	13.2	13.2					
Specific Conductivity (s):	210.9	1047	3803	3880					
pH:	9.67	8.33	8.20	7.89					
SECONDARY PARAMETERS									
ORP (mV):									
Dissolved Oxygen (mg/L):									
Turbidity:	102.6	125	292	173					
NAPL Observed: YES / <input checked="" type="radio"/> NO	Well Pumped Dry: YES / <input checked="" type="radio"/> NO								
ODOR: YES / <input checked="" type="radio"/> NO	Other:								
Odor Type: () Solvent () Septic () Other									
SAMPLE COLLECTION INFORMATION					SAMPLE DATE: <u>5/28/14</u>				
Sample No.	Time	Sample No.	Time						
Media Sample ID: <u>MW-04</u>	1100	Rinse Blank: <input checked="" type="radio"/> YES / <input type="radio"/> NO <u>FB-MW-04</u>	1015						
Duplicate: YES / NO <u>MW-04 Dup</u>	1100	Field Blank: YES / <input checked="" type="radio"/> NO							
Parameters: <input checked="" type="checkbox"/> 260-VOC <input type="checkbox"/> Fluorides <input type="checkbox"/> Chlorides <u>CS₂ ONLY + 5ppb</u> <input type="checkbox"/> TDS <input type="checkbox"/> Metals (Total RCRA) Non-filtered <input type="checkbox"/> Metals (Total RCRA) Filtered				Also sampled for:					
COMMENTS									
				Well Pumped Dry: YES / <input checked="" type="radio"/> NO					
				Volume Purged: <u>20</u>					
				Well Requires Maintenance? YES / <input checked="" type="radio"/> NO					
				Access Requires Maintenance? YES / <input checked="" type="radio"/> NO					

Purge Factors: 1" (0.04); 2" (0.16); 3" (0.37); 4" (0.65); 6" (1.47); 8" (2.61); 10" (4.08)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-60621-1
Client Project/Site: 3M Tonawanda
Sampling Event: 3M Tonawanda, NY - Semi-Annual Monit.

For:
Weston Solutions, Inc.
1400 Weston Way
PO BOX 2653
West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew



Authorized for release by:
5/31/2014 12:27:31 PM

Anne Pridgeon, Project Management Assistant I
anne.pridgeon@testamericainc.com

Designee for

Candace Fox, Manager of Project Management
(716)504-9844
candace.fox@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?

 **Ask
The
Expert**

Visit us at:

www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16



Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

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

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
■	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Job ID: 480-60621-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-60621-1

Comments

No additional comments.

Receipt

The samples were received on 5/28/2014 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: LY-02 (480-60621-4). Elevated reporting limits (RLs) are provided.

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



Detection Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: MW-04

Lab Sample ID: 480-60621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.45	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-60621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.43	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: FB-MW-04

Lab Sample ID: 480-60621-3

No Detections.

Client Sample ID: LY-02

Lab Sample ID: 480-60621-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	310000		40000	1500	ug/L	8000		8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-60621-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: MW-04

Date Collected: 05/28/14 11:00

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-1

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.45	J	5.0	0.19	ug/L			05/29/14 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		05/29/14 19:54	1
Toluene-d8 (Surr)	99		71 - 126		05/29/14 19:54	1
4-Bromofluorobenzene (Surr)	102		73 - 120		05/29/14 19:54	1

Client Sample ID: MW-04 DUP

Date Collected: 05/28/14 11:00

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-2

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	J	5.0	0.19	ug/L			05/29/14 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		05/29/14 20:18	1
Toluene-d8 (Surr)	99		71 - 126		05/29/14 20:18	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/29/14 20:18	1

Client Sample ID: FB-MW-04

Date Collected: 05/28/14 10:15

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-3

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		05/29/14 20:42	1
Toluene-d8 (Surr)	99		71 - 126		05/29/14 20:42	1
4-Bromofluorobenzene (Surr)	104		73 - 120		05/29/14 20:42	1

Client Sample ID: LY-02

Date Collected: 05/28/14 11:30

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-4

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	310000		40000	1500	ug/L			05/29/14 21:05	8000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		05/29/14 21:05	8000
Toluene-d8 (Surr)	97		71 - 126		05/29/14 21:05	8000
4-Bromofluorobenzene (Surr)	105		73 - 120		05/29/14 21:05	8000

TestAmerica Buffalo

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-60621-5

Date Collected: 05/28/14 09:00

Matrix: Water

Date Received: 05/28/14 11:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137					05/29/14 21:29	1
Toluene-d8 (Surr)	99		71 - 126					05/29/14 21:29	1
4-Bromofluorobenzene (Surr)	105		73 - 120					05/29/14 21:29	1

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

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Monitor Well

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-60621-1	MW-04	106	99	102
480-60621-2	MW-04 DUP	106	99	103
480-60621-3	FB-MW-04	107	99	104
480-60621-4	LY-02	106	97	105

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-60621-5	Trip Blank	105	99	105
LCS 480-184587/5	Lab Control Sample	104	99	104
LCSD 480-184587/6	Lab Control Sample Dup	105	98	105
MB 480-184587/8	Method Blank	105	99	101

Surrogate Legend

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

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

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-184587/8
Matrix: Water
Analysis Batch: 184587

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 13:39	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1,2-Dichloroethane-d4 (Surr)	105		66 - 137					05/29/14 13:39	1
Toluene-d8 (Surr)	99		71 - 126					05/29/14 13:39	1
4-Bromofluorobenzene (Surr)	101		73 - 120					05/29/14 13:39	1

Lab Sample ID: LCS 480-184587/5
Matrix: Water
Analysis Batch: 184587

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120

Lab Sample ID: LCSD 480-184587/6
Matrix: Water
Analysis Batch: 184587

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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	105		73 - 120

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

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

GC/MS VOA

Analysis Batch: 184587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60621-1	MW-04	Total/NA	Monitor Well	8260C	
480-60621-2	MW-04 DUP	Total/NA	Monitor Well	8260C	
480-60621-3	FB-MW-04	Total/NA	Monitor Well	8260C	
480-60621-4	LY-02	Total/NA	Monitor Well	8260C	
480-60621-5	Trip Blank	Total/NA	Water	8260C	
LCS 480-184587/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-184587/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-184587/8	Method Blank	Total/NA	Water	8260C	

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

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: MW-04

Date Collected: 05/28/14 11:00

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-1

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 19:54	CXM	TAL BUF

Client Sample ID: MW-04 DUP

Date Collected: 05/28/14 11:00

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-2

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 20:18	CXM	TAL BUF

Client Sample ID: FB-MW-04

Date Collected: 05/28/14 10:15

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-3

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 20:42	CXM	TAL BUF

Client Sample ID: LY-02

Date Collected: 05/28/14 11:30

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-4

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8000	184587	05/29/14 21:05	CXM	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 05/28/14 09:00

Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 21:29	CXM	TAL BUF

Laboratory References:

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

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

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

Method Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60621-1	MW-04	Monitor Well	05/28/14 11:00	05/28/14 11:55
480-60621-2	MW-04 DUP	Monitor Well	05/28/14 11:00	05/28/14 11:55
480-60621-3	FB-MW-04	Monitor Well	05/28/14 10:15	05/28/14 11:55
480-60621-4	LY-02	Monitor Well	05/28/14 11:30	05/28/14 11:55
480-60621-5	Trip Blank	Water	05/28/14 09:00	05/28/14 11:55

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

TestAmerica Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody

TestAmerica
 A LEADER IN ENVIRONMENTAL TESTING



IC No: 0-49818-11235.1
 Job #: 480-60621 Chain of Custody
 Page 1 of 1

Client Information
 Company: Weston Solutions, Inc.
 Address: 1400 Weston Way PO BOX 2653
 City: West Chester
 State/Zip: PA, 19380
 Phone: 610-701-7302(Tel) 610-701-7401(Fax)
 Email: t.drew@westonsolutions.com
 Project Name: 3M Tonawanda/ Event Desc: 3M Tonawanda, NY - Semi-Annual
 Site: New York

Sampler: Greg Flatau
Phone: 610-701-0583
Lab PM: Fox, Candace L
E-Mail: candace.fox@testamerica.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Air, Soil, Sediment, Other)	Field Filtered Sample (Yes/No)	Form MS/MSD (Yes/No)	8280B - (MOD) Pick a reference price	Total Number of Containers	Special Instructions/Note:
MW-04	5/28/14	1100	G	Water					* 5ppb Carbon Disulfide Only
MW-04 DUP		1400		Water					
FB-MW-04		1015		Water					
LY-02		1150		Water					
Trip Blank		900		Water					

Analysis Requested	Preservation Codes:
	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - Other (specify)

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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

Special Instructions/QC Requirements:

Empty Kit Relinquished By: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Method of Shipment: [Signature]
Date/Time: 5/28/14 1655
Date/Time: 5/28/14 1155
Date/Time: 7/1/14

Company: Weston
Company: Weston
Company: Weston

Custody Seal No.: Δ Yes Δ No



Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-60621-1

Login Number: 60621

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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

