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The Trusted Integrator for Sustainable Solutions

July 6, 2017

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

Re: Semiannual Periodic Review Report (February 15, 2017 to June 30, 2017)
Order on Consent # B9-0369-91-04, Site Code #915148
3M Tonawanda, New York Facility

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, 2017 to June 30, 2017.

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. Martin, 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:	Jeannie Martin (3M Corporate) Keith Held (3M Tonawanda)
NYSDEC Project Lead:	Glenn May
Reporting Period:	February 15, 2017 to June 30, 2017

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 (CS_2).

- Inspecting the completed interim remedial measures (IRMs) (includes the CS_2 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 CS_2 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 CS_2 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 CS_2 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 April 2017. 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 CS_2 analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) and lysimeter LY-02 on April 18, 2017 in accordance with the O&M Plan modifications approved by NYSDEC. Laboratory analytical results from the April 2017 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

Sampling Date	Sample ID and Result		
	MW-4 (µg/L)	MW-4 Duplicate (µg/L)	LY-02 (mg/L)
4/18/2017	0.34 J	0.24 J	260

Notes: J – Result is less than the reporting limit of 5 µg/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, CS_2 was not detected above the reporting limit in the groundwater samples (primary and duplicate samples) collected from monitoring well MW-4 in April 2017. CS_2 was detected at a concentration of 260 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 April 2017 sampling event is provided in Attachment A.

ATTACHMENT A
WELL PURGING/SAMPLING FORM AND LABORATORY ANALYTICAL PACKAGE
APRIL 2017 SAMPLING EVENT

Well Evacuation/Sampling Form

SITE INFORMATION Tonawanda 4/18/17

Well No.: MW-04	Weather: Sunny Cloudy Rain Temp: 58°
Sampling Team: Greg Floss, Nick	Sampler's Signature:

WELL INFORMATION

Protective Casing: Intact / Damaged	Concrete Base: Intact / Damaged
Locked: YES NO	Well Diameter: 2-INCH 4-INCH 6-INCH

WELL EVACUATION INFORMATION

A. Total Depth (Top of Casing = TOC):	72.90
B. Depth to Water (DTW) (TOC):	-31.64
C. Column of Standing Water (C=A-B):	41.26
D. Purge Factor	x 0.16
E. One Well Volume:	6.6
F. Three Well Volumes (gallons):	19.8

Well Evacuation Method
- X BAILER
- ( ) 2-Inch Grundfos
- ( ) Peristaltic Pump
- ( ) Other (Specify)

TOTAL VOLUME PURGED: 19.8

INDICATOR PARAMETERS

Time	1351	1405	1415	1425					
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	14.9	13.9	13.2	13.0					
Specific Conductivity (s):	437.7	2764	3490	3529					
pH:	8.89	11.88	11.31	9.21					
~~SECONDARY PARAMETERS~~ DO	31.64	32.01	32.11	32.10					
ORP (mV):	—	—	—	—					
Dissolved Oxygen (mg/L):	—	—	—	—					
Turbidity:	51.3	83.7	57.6	66.7					

NAPL Observed: YES / NO	**Well Pumped Dry: YES / NO**
ODOR: YES / NO	**Other:**
Odor Type: ( ) Solvent ( ) Septic ( ) Other	

SAMPLE COLLECTION INFORMATION **SAMPLE DATE:** 4/18/17

Sample No.	Time	Sample No.	Time
Media Sample ID: MW-04	1430	Rinsate Blank: YES/NO FB-MW-04	1345
Duplicate: YES/NO MW-04 Dup	1430	Field Blank: YES/NO	

Parameters: (X) ~~8260 VOC~~ CS_2 ONLY ( ) Fluorides
- ( ) Chlorides
- ( ) TDS
- ( ) Metals (Total RCRA) Non-filtered
- ( ) Metals (Total RCRA) Filtered

MW-01 30.73 * WATER LEVELS *
MW-02 32.00
MW-03 33.69

COMMENTS

CS_2 (5ppb)

Well Pumped Dry: YES / NO
Volume Purged: 20
Well Requires Maintenance? YES / NO
Access Requires Maintenance? YES / 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: 480-116462-1
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

Joseph V. Giacomazza

Authorized for release by:
5/1/2017 9:39:46 AM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

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

TestAmerica Job ID: 480-116462-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
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)

Job ID: 480-116462-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-116462-1

Receipt
The samples were received on 4/18/2017 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method(s) 8260C: Surrogate recovery for the following sample was outside the upper control limit: Trip Blank (480-116462-1) and MW-04 (480-116462-3). The samples did not contain any target analytes above the reporting limit (RL); therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The surrogate recovery for the blank associated with analytical batch 480-354700 was outside the upper control limits. The following sample was impacted: Trip Blank (480-116462-1) and MW-04 (480-116462-3).

Method(s) 8260C: Surrogate recovery for the following samples was outside the upper control limit: LY-02 (480-116462-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: LY-02 (480-116462-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The surrogate recovery for the blank associated with analytical batch 480-354813 was outside the upper control limits.

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: 480-116462-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-116462-1

No Detections.

Client Sample ID: FB-MW-04 — Lab Sample ID: 480-116462-2

No Detections.

Client Sample ID: MW-04 — Lab Sample ID: 480-116462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.34	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04 DUP — Lab Sample ID: 480-116462-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.24	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: LY-02 — Lab Sample ID: 480-116462-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	260000		40000	1500	ug/L	8000		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank

Lab Sample ID: 480-116462-1

Date Collected: 04/18/17 13:00

Matrix: Water

Date Received: 04/18/17 15:35

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			04/29/17 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*	*X*	*77 - 120*		*04/29/17 01:22*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/29/17 01:22*	*1*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*04/29/17 01:22*	*1*

Client Sample ID: FB-MW-04

Lab Sample ID: 480-116462-2

Date Collected: 04/18/17 13:45

Matrix: Monitor Well

Date Received: 04/18/17 15:35

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			04/29/17 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*04/29/17 01:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/29/17 01:49*	*1*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*		*04/29/17 01:49*	*1*

Client Sample ID: MW-04

Lab Sample ID: 480-116462-3

Date Collected: 04/18/17 14:30

Matrix: Monitor Well

Date Received: 04/18/17 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**0.34**	**J**	5.0	0.19	ug/L			04/29/17 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*	*X*	*77 - 120*		*04/29/17 02:16*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/29/17 02:16*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*04/29/17 02:16*	*1*

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-116462-4

Date Collected: 04/18/17 14:30

Matrix: Monitor Well

Date Received: 04/18/17 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**0.24**	**J**	5.0	0.19	ug/L			04/29/17 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*77 - 120*		*04/29/17 02:43*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/29/17 02:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*04/29/17 02:43*	*1*

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

TestAmerica Job ID: 480-116462-1

Client Sample ID: LY-02
Date Collected: 04/18/17 15:10
Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-5
Matrix: Monitor Well

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**260000**		40000	1500	ug/L			04/30/17 00:48	8000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*	*X*	*77 - 120*		*04/30/17 00:48*	*8000*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/30/17 00:48*	*8000*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*04/30/17 00:48*	*8000*

Surrogate Summary

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

TestAmerica Job ID: 480-116462-1

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

Matrix: Monitor Well **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-116462-2	FB-MW-04	118	97	114
480-116462-3	MW-04	126 X	96	109
480-116462-4	MW-04 DUP	119	96	108
480-116462-5	LY-02	129 X	99	113

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**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-116462-1	Trip Blank	124 X	98	113
LCS 480-354700/4	Lab Control Sample	113	100	115
LCS 480-354813/4	Lab Control Sample	117	97	118
MB 480-354700/6	Method Blank	115	98	112
MB 480-354813/6	Method Blank	132 X	100	110

Surrogate Legend

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

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

TestAmerica Job ID: 480-116462-1

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

Lab Sample ID: MB 480-354700/6
Matrix: Water
Analysis Batch: 354700

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/28/17 23:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*04/28/17 23:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/28/17 23:26*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*04/28/17 23:26*	*1*

Lab Sample ID: LCS 480-354700/4
Matrix: Water
Analysis Batch: 354700

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*

Lab Sample ID: MB 480-354813/6
Matrix: Water
Analysis Batch: 354813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/30/17 00:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*X*	*77 - 120*		*04/30/17 00:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/30/17 00:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*04/30/17 00:20*	*1*

Lab Sample ID: LCS 480-354813/4
Matrix: Water
Analysis Batch: 354813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*118*		*73 - 120*

QC Association Summary

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

TestAmerica Job ID: 480-116462-1

GC/MS VOA

Analysis Batch: 354700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116462-1	Trip Blank	Total/NA	Water	8260C	
480-116462-2	FB-MW-04	Total/NA	Monitor Well	8260C	
480-116462-3	MW-04	Total/NA	Monitor Well	8260C	
480-116462-4	MW-04 DUP	Total/NA	Monitor Well	8260C	
MB 480-354700/6	Method Blank	Total/NA	Water	8260C	
LCS 480-354700/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 354813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116462-5	LY-02	Total/NA	Monitor Well	8260C	
MB 480-354813/6	Method Blank	Total/NA	Water	8260C	
LCS 480-354813/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-116462-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-116462-1

Date Collected: 04/18/17 13:00 — **Matrix: Water**
Date Received: 04/18/17 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 01:22	ARS	TAL BUF

Client Sample ID: FB-MW-04 — Lab Sample ID: 480-116462-2

Date Collected: 04/18/17 13:45 — **Matrix: Monitor Well**
Date Received: 04/18/17 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 01:49	ARS	TAL BUF

Client Sample ID: MW-04 — Lab Sample ID: 480-116462-3

Date Collected: 04/18/17 14:30 — **Matrix: Monitor Well**
Date Received: 04/18/17 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 02:16	ARS	TAL BUF

Client Sample ID: MW-04 DUP — Lab Sample ID: 480-116462-4

Date Collected: 04/18/17 14:30 — **Matrix: Monitor Well**
Date Received: 04/18/17 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 02:43	ARS	TAL BUF

Client Sample ID: LY-02 — Lab Sample ID: 480-116462-5

Date Collected: 04/18/17 15:10 — **Matrix: Monitor Well**
Date Received: 04/18/17 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8000	354813	04/30/17 00:48	NEA	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

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

TestAmerica Job ID: 480-116462-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method Summary

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

TestAmerica Job ID: 480-116462-1

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

Sample Summary

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

TestAmerica Job ID: 480-116462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116462-1	Trip Blank	Water	04/18/17 13:00	04/18/17 15:35
480-116462-2	FB-MW-04	Monitor Well	04/18/17 13:45	04/18/17 15:35
480-116462-3	MW-04	Monitor Well	04/18/17 14:30	04/18/17 15:35
480-116462-4	MW-04 DUP	Monitor Well	04/18/17 14:30	04/18/17 15:35
480-116462-5	LY-02	Monitor Well	04/18/17 15:10	04/18/17 15:35

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

185410

480-116462 COC

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Tom Drew	Site Contact:	Date
Company Name: Western Solutions	Tel/Fax: 610.701.3677	Lab Contact: Judy Stine	Carr
Address: 1400 Western Hwy	Analysis Turnaround Time		
City/State/Zip: W Chester PA 19380	☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone: 610.701.0583	TAT if different from Below Standard		
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: 3M Tonawanda			
Site: Tonawanda, NY			
PO #			

COC No: 1 of 1 COCs
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CS2	Sample Specific Notes:
Trip Blank	4/18/17	1300	G	W	1			✓	
FB-MW-04		1345			3			✓	CS_2 Only
MW-04		1430			3			✓	
MW-04 Dup		1430			3			✓	* 5ppb
LY-02		1510			3			✓	Detection
									Limit

Preservation Used: 1= Ice, 2= HCl, 3= H_2SO_4, 4=HNO_3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Western	4/18/17		TK	4-18-17 1535
Relinquished by:	Company:	Date/Time: 1535	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

4/21/2017

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Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-116462-1

Login Number: 116462

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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 (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	
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	