

Appendix I

Laboratory Analytical Reports – Surface-Water and Sediment Sampling

**ADQM DATA REVIEW
NARRATIVE**

Site **MTG/ Montague**

Project **Remedial Investigation SW 6/13**

Project Reviewer **Dyana Sagges**

Sampling Date **6/18 and 6/19**

Analytical Protocol

LABORATORY	ANALYSIS	METHOD
Lancaster Labs, Lancaster PA		
	Select List VOA	SW-846 8260B
	Acetaldehyde	SW-846 8315A
	Select List Metals- Total Cadmium, Calcium, Magnesium Antimony, Arsenic, Lead Mercury	SW-846 6010B SW-846 6020 SW-846 7470A
	Select List Metals- Dissolved Cadmium Antimony, Arsenic, Lead Mercury	SW-846 6010B SW-846 6020 SW-846 7470A
	Ammonia	SM 4500-NH3 D-1997
	Chloride, Fluoride, Sulfate	EPA 300.0
	Total Hardness as CaCO3	SM 2340 B-1997

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on 6/19 and 6/20/13. Temperatures were reported as a range 0.5-0.9 degrees C for samples received on 6/19/13, because samples returned to the lab in different coolers than they were sent out in.
- Dissolved samples were all field filtered.

- The chain of custody page did not have the MS/MSD field sample id information filled out for the total and dissolved analyses. The sample information was retrieved from the sample bottle labels.

Data Review

The electronic data submitted for this project was reviewed via the DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification. Some of the data was qualified due to detections in the equipment blank, detections in the method blank and results detected between the method detection limit and the practical quantitation limit.

- For acetaldehyde samples RI0613-2013SW-01D and RI0613-2013SW-02, due to a laboratory error during the initial extraction, no useable data was obtained. The samples were re-extracted outside of the method required holding time. All samples were reported from the re-extracted sample analyses. Both of the samples have been qualified with a “B”. This was due to the sample results being similar to the level of contamination found in the Equipment Blank. The “B” qualifier takes precedence over any hold time issue.
- The acetaldehyde reporting limit for some samples are elevated due to interference from the sample matrix.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the DuPont CRG Envista database and run through an automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria; checked for blank contamination; assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes; laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPDs between these spikes; assessed against RPDs between laboratory replicates (inorganics); and assessed against surrogate spike recoveries (organics). The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Montague

Sampling Program: REM INVESTIGATION SW 6/13

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date		Lab Sample ID	Analyte	Result	Units	Type	MDL	Validation		Analytical Method	Pre-prep	Prep
	Sampled								PQL	Qualifier			
R10613-2013SW-01-D	06/19/2013		7099632	ACETALDEHYDE	40	UG/L	MDL	40	120	B	8315A		8315A
R10613-2013SW-02	06/19/2013		7099634	ACETALDEHYDE	43	UG/L	MDL	40	120	B	8315A		8315A

Site: Montague

Sampling Program: REM INVESTIGATION SW 6/13

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013SW-01-D	06/19/2013	7099632	AMMONIA	0.21	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-01	06/19/2013	7099630	AMMONIA	0.23	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-02	06/19/2013	7099634	AMMONIA	0.23	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-03	06/19/2013	7099636	AMMONIA	0.46	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-07	06/18/2013	7098188	AMMONIA	0.20	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-09	06/19/2013	7099640	AMMONIA	0.14	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-05	06/18/2013	7098192	AMMONIA	0.18	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-04	06/18/2013	7098190	AMMONIA	0.18	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-06	06/18/2013	7098186	AMMONIA	0.16	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-08	06/19/2013	7099638	AMMONIA	0.15	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-10	06/18/2013	7098200	AMMONIA	0.070	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		
R10613-2013SW-11	06/18/2013	7098202	AMMONIA	0.080	MG/L	MDL	0.060	0.20	B	4500-NH3 D- 1997		

Site: Montague

Sampling Program: REM INVESTIGATION SW 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EB-061813-SW	06/18/2013	7098204	CALCIUM	0.145	MG/L	MDL	0.0334	0.200	J	6010B		3010A
EB-061813-SW	06/18/2013	7098204	AMMONIA	0.090	MG/L	MDL	0.060	0.20	J	4500-NH3 D-1997		
EB-061913-SW	06/19/2013	7099642	TOTAL HARDNESS AS CaCO3	0.19	MG/L	MDL	0.033	0.20	J	2340 B-1997		
EB-061913-SW	06/19/2013	7099642	CALCIUM	0.0757	MG/L	MDL	0.0334	0.200	J	6010B		3010A
EB-061913-SW	06/19/2013	7099642	ACETALDEHYDE	28	UG/L	MDL	20	60	J	8315A		8315A
RI0613-2013SW-10-Z	06/18/2013	7098201	ARSENIC	0.00072	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-11	06/18/2013	7098202	LEAD	0.00032	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
RI0613-2013SW-09	06/19/2013	7099640	LEAD	0.00031	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
RI0613-2013SW-09	06/19/2013	7099640	ARSENIC	0.0016	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-01	06/19/2013	7099630	ARSENIC	0.0016	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-01	06/19/2013	7099630	CADMIUM	0.0033	MG/L	MDL	0.00076	0.0050	J	6010B		3010A
RI0613-2013SW-01-Z	06/19/2013	7099631	ARSENIC	0.00080	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-01-Z-D	06/19/2013	7099633	LEAD	0.00024	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
RI0613-2013SW-01-Z-D	06/19/2013	7099633	ARSENIC	0.00077	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-02	06/19/2013	7099634	ARSENIC	0.0014	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-01-D	06/19/2013	7099632	ARSENIC	0.0015	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-03-Z	06/19/2013	7099637	ARSENIC	0.00077	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-04	06/18/2013	7098190	ARSENIC	0.0015	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-02-Z	06/19/2013	7099635	ARSENIC	0.00048	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-03	06/19/2013	7099636	ARSENIC	0.0018	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-06-Z	06/18/2013	7098187	ARSENIC	0.00084	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-07	06/18/2013	7098188	ARSENIC	0.0013	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-04-Z	06/18/2013	7098191	ARSENIC	0.00080	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.

Site: Montague

Sampling Program: REM INVESTIGATION SW 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RI0613-2013SW-05	06/18/2013	7098192	ARSENIC	0.0014	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-05-Z	06/18/2013	7098196	LEAD	0.00011	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
RI0613-2013SW-05-Z	06/18/2013	7098196	ARSENIC	0.00079	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-06	06/18/2013	7098186	ARSENIC	0.0014	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-09-Z	06/19/2013	7099641	ARSENIC	0.0016	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-10	06/18/2013	7098200	LEAD	0.00015	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.
RI0613-2013SW-10	06/18/2013	7098200	ARSENIC	0.0011	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-07-Z	06/18/2013	7098189	ARSENIC	0.00088	MG/L	MDL	0.00042	0.0020	J	6020		3010A MOD.
RI0613-2013SW-08	06/19/2013	7099638	TETRACHLOROETHENE	1	UG/L	MDL	0.8	5	J	8260B		5030B
RI0613-2013SW-08	06/19/2013	7099638	LEAD	0.00018	MG/L	MDL	0.000085	0.0010	J	6020		3010A MOD.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 03, 2013

Project: MTG - REM INVESTIGATION SW

Submittal Date: 06/19/2013

Group Number: 1398187

PO Number: LBIO-66380

State of Sample Origin: MI

Client Sample Description

RI0613-2013SW-06 Surface Water
RI0613-2013SW-06-Z Surface Water
RI0613-2013SW-07 Surface Water
RI0613-2013SW-07-Z Surface Water
RI0613-2013SW-04 Surface Water
RI0613-2013SW-04-Z Surface Water
RI0613-2013SW-05 Surface Water
RI0613-2013SW-05 MS Surface Water
RI0613-2013SW-05 MSD Surface Water
RI0613-2013SW-05 Dupl Surface Water
RI0613-2013SW-05-Z Surface Water
RI0613-2013SW-05-Z MS Surface Water
RI0613-2013SW-05-Z MSD Surface Water
RI0613-2013SW-05-Z Dupl Surface Water
RI0613-2013SW-10 Surface Water
RI0613-2013SW-10-Z Surface Water
RI0613-2013SW-11 Surface Water
RI0613-2013SW-11-Z Surface Water
EB-061813-SW Blank Water
EB-061813-SW-Z Blank Water
TB-061813-SW Blank Water

Lancaster Labs (LL)

7098186
7098187
7098188
7098189
7098190
7098191
7098192
7098193
7098194
7098195
7098196
7098197
7098198
7098199
7098200
7098201
7098202
7098203
7098204
7098205
7098206

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

REVISED

Sample Description: RI0613-2013SW-06 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098186
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 10:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	170	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	45.1	0.0334	0.200	1
01757	Magnesium	7439-95-4	14.0	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0014 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0011	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	12.9	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	20.0	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.16 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-06 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098186
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 10:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 23:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 23:31	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 20:32	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:51	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 21:51	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 21:51	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:42	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:05	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 15:35	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 15:35	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 15:35	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 08:07	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-06-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098187
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 10:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00084 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:46	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:49	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:07	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-07 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098188
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 09:45 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	162	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	43.1	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.1	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0013 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0017	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	14.4	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	20.1	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.20	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-07 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098188
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 09:45 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 23:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 23:52	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 20:41	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:03	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:03	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:03	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:51	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:27	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:27	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:09	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 15:51	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 15:51	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 15:51	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 08:12	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-07-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098189
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 09:45 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00088 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:58	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:53	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:29	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:11	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-04 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098190
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	163	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	43.8	0.0334	0.200	1
01757	Magnesium	7439-95-4	12.9	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0015 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0018	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	15.2	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	23.4	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.18 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-04 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098190
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 00:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 00:13	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 20:49	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:07	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:55	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:30	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:13	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 16:07	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 16:07	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 16:07	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 08:17	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-04-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098191
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00080 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:01	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:56	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:32	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:22	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098192
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	162	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	43.5	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.0	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0014 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0013	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	13.6	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	22.1	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.18 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098192
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 00:34	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 00:34	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 20:58	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:24	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 21:24	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 21:24	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:13	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:13	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:13	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:24	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 13:57	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 13:57	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 13:57	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201B	06/28/2013 08:33	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 MS Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098193
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	120	6	20	1
10335	Benzene	71-43-2	20	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	21	1	5	1
10335	Chloroform	67-66-3	20	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	21	2	5	1
10335	1,1-Dichloroethane	75-34-3	21	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	19	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	21	0.8	5	1
10335	Freon 113	76-13-1	21	2	10	1
10335	Methylene Chloride	75-09-2	20	2	5	1
10335	Tetrachloroethene	127-18-4	21	0.8	5	1
10335	Tetrahydrofuran	109-99-9	87	4	10	1
10335	Toluene	108-88-3	21	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	21	0.8	5	1
10335	Trichloroethene	79-01-6	21	1	5	1
10335	Trichlorofluoromethane	75-69-4	20	2	5	1
Aldehydes & Ketones		SW-846 8315A	ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	430	20	60	1
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0516	0.00076	0.0050	1
		SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0069	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0120	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0167	0.000085	0.0010	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00096	0.000070	0.00020	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	33.9	2.0	4.0	10
01504	Fluoride	16984-48-8	10.5	0.80	1.0	10
00228	Sulfate	14808-79-8	73.6	3.0	10.0	10
		SM 4500-NH3 D-1997	mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	4.8	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 MS Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098193
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 00:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 00:55	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:07	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:36	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:18	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:28	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 14:30	Christopher D Meeks	10
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 14:30	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 14:30	Christopher D Meeks	10
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201B	06/28/2013 08:38	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 MSD Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098194
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	120	6	20	1
10335	Benzene	71-43-2	20	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	22	1	5	1
10335	Chloroform	67-66-3	21	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	21	2	5	1
10335	1,1-Dichloroethane	75-34-3	21	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	20	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	21	0.8	5	1
10335	Freon 113	76-13-1	21	2	10	1
10335	Methylene Chloride	75-09-2	21	2	5	1
10335	Tetrachloroethene	127-18-4	21	0.8	5	1
10335	Tetrahydrofuran	109-99-9	89	4	10	1
10335	Toluene	108-88-3	21	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	21	0.8	5	1
10335	Trichloroethene	79-01-6	21	1	5	1
10335	Trichlorofluoromethane	75-69-4	21	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	420	20	60	1
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.0508	0.00076	0.0050	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0061	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0114	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0169	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	0.000070	0.00020	1
Wet Chemistry	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	5.0	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 01:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 01:16	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:15	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 MSD Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098194
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:39	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:20	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:20	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:20	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:30	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201B	06/28/2013 08:43	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 Dupl Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098195
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	161	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	43.2	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.0	0.0167	0.100	1
		SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0012 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0011	0.000085	0.0010	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	13.6	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	22.2	1.5	5.0	5
		SM 4500-NH₃ D-1997	mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.21	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:32	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 21:32	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 21:32	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:17	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:17	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:17	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:26	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 14:14	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05 Dupl Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098195
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 14:14	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 14:14	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201B	06/28/2013 08:48	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098196
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW5F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00079 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00011 J	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:20	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:07	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:07	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:01	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05-Z MS Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098197
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW5F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l 0.0495	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l 0.0067	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0109	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0152	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.00093	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:31	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:37	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:13	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:13	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:05	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-05-Z MSD Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098198
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW5F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	7440-43-9	0.0492	0.00076	0.0050	1
SW-846 6010B						
SW-846 6020						
06024	Antimony	7440-36-0	0.0065	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0114	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0156	0.000085	0.0010	1
SW-846 7470A						
00259	Mercury	7439-97-6	0.00090	0.000070	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:35	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:39	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:14	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:11	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013?SW-05-Z Dupl Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098199
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW5F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
		SW-846 6010B	mg/l	mg/l	mg/l	
		SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.00095 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00012 J	0.000085	0.0010	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 09:27	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:11	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:03	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-10 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098200
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 14:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	196	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	50.3	0.0334	0.200	1
01757	Magnesium	7439-95-4	17.2	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0011 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00015 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	7.0	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	20.1	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.070 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-10 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098200
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 14:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 01:37	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 01:37	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:24	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:11	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:58	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:34	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:34	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:13	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 16:23	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 16:23	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 16:23	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 08:53	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-10-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098201
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 14:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00072 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:05	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:00	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:15	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-11 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098202
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 11:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	197	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	49.2	0.0334	0.200	1
01757	Magnesium	7439-95-4	18.1	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00032 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	8.0	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	18.0	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.080 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-11 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098202
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 11:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSW11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/22/2013 01:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/22/2013 01:58	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:32	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:15	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:15	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:15	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:01	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:37	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:37	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:17	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 16:39	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 16:39	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 16:39	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 08:59	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: RI0613-2013SW-11-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7098203
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 11:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:09	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:39	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:39	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:19	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-061813-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7098204
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSWEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	0.36	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.145 J	0.0334	0.200	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.090 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-061813-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7098204
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSWEB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 22:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 22:48	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:41	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:18	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:18	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:18	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:05	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:41	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:41	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:21	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 16:56	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 16:56	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 16:56	Christopher D Meeks	1
12679	Ammonia	SM 4500-NH3 D-1997	1	13179002201A	06/28/2013 09:05	Kenneth A Bell	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13177421901B	06/26/2013 08:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: EB-061813-SW-Z Blank Water
REM INVEST SW 6/13

LL Sample # WW 7098205
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 12:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:13	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:21	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:57	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713005	06/21/2013 10:23	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713005	06/20/2013 15:30	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: TB-061813-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7098206
LL Group # 1398187
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/18/2013 17:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/03/2013 14:15

MSWTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 23:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 23:10	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/03/13 at 02:15 PM

Group Number: 1398187

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Y131722AA	Sample number(s): 7098186,7098188,7098190,7098192-7098194,7098200,7098202,7098204,7098206								
Acetone	N.D.	6.	20	ug/l	79		35-181		
Benzene	N.D.	0.5	5	ug/l	96		77-121		
Carbon Tetrachloride	N.D.	1.	5	ug/l	100		65-137		
Chloroform	N.D.	0.8	5	ug/l	97		77-122		
Dichlorodifluoromethane	N.D.	2.	5	ug/l	94		35-122		
1,1-Dichloroethane	N.D.	1.	5	ug/l	98		79-120		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	92		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	98		80-120		
Freon 113	N.D.	2.	10	ug/l	94		69-128		
Methylene Chloride	N.D.	2.	5	ug/l	97		84-118		
Tetrachloroethene	N.D.	0.8	5	ug/l	99		79-120		
Tetrahydrofuran	5 J	4.	10	ug/l	101		52-156		
Toluene	N.D.	0.7	5	ug/l	100		79-120		
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	97		66-126		
Trichloroethene	N.D.	1.	5	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/l	97		65-130		
Batch number: 131710014A	Sample number(s): 7098186,7098188,7098190,7098192-7098194,7098200,7098202,7098204								
Acetaldehyde	N.D.	20.	60	ug/l	71		56-123		
Batch number: 131705713004	Sample number(s): 7098186-7098195								
Mercury	N.D.	0.00007	0.00020	mg/l	94		80-120		
		0							
Batch number: 131705713005	Sample number(s): 7098196-7098205								
Mercury	N.D.	0.00007	0.00020	mg/l	92		80-120		
		0							
Batch number: 131745705002	Sample number(s): 7098186,7098188,7098190,7098192-7098195,7098200,7098202,7098204								
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Calcium	0.0499 J	0.0334	0.200	mg/l	106		90-110		
Magnesium	N.D.	0.0167	0.100	mg/l	104		90-110		
Batch number: 131765705007	Sample number(s): 7098187,7098189,7098191,7098196-7098199,7098201,7098203,7098205								
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Batch number: 131766050002A	Sample number(s): 7098186-7098191,7098196-7098205								
Antimony	N.D.	0.00034	0.0010	mg/l	106		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	99		80-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/03/13 at 02:15 PM

Group Number: 1398187

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Lead	N.D.	0.00008	0.0010	mg/l	100		90-115		
		5							
Batch number: 131766050003A	Sample number(s): 7098192-7098195								
Antimony	N.D.	0.00034	0.0010	mg/l	109		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	104		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	102		90-115		
		5							
Batch number: 13177655901B	Sample number(s): 7098186,7098188,7098190,7098192-7098193,7098195,7098200,7098202,7098204								
Chloride	N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	97		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	101		90-110		
Batch number: 13179002201A	Sample number(s): 7098186,7098188,7098190,7098200,7098202,7098204								
Ammonia	0.060 J	0.060	0.20	mg/l	94		80-120		
Batch number: 13179002201B	Sample number(s): 7098192-7098195								
Ammonia	0.060 J	0.060	0.20	mg/l	94		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: Y131722AA	Sample number(s): 7098186,7098188,7098190,7098192-7098194,7098200,7098202,7098204,7098206 UNSPK: 7098192								
Acetone	77	78	33-159	1	30				
Benzene	99	101	72-134	2	30				
Carbon Tetrachloride	107	108	72-135	2	30				
Chloroform	101	103	81-134	2	30				
Dichlorodifluoromethane	103	105	52-129	1	30				
1,1-Dichloroethane	103	105	84-129	2	30				
cis-1,2-Dichloroethene	96	98	80-141	1	30				
trans-1,2-Dichloroethene	104	107	81-142	2	30				
Freon 113	103	105	89-148	2	30				
Methylene Chloride	101	103	78-133	2	30				
Tetrachloroethene	105	107	80-128	1	30				
Tetrahydrofuran	87	89	43-164	3	30				
Toluene	105	107	80-125	2	30				
1,1,1-Trichloroethane	103	106	69-140	2	30				
Trichloroethene	104	105	88-133	1	30				
Trichlorofluoromethane	102	105	64-146	2	30				
Batch number: 131710014A	Sample number(s): 7098186,7098188,7098190,7098192-7098194,7098200,7098202,7098204 UNSPK: 7098192								
Acetaldehyde	86	84	79-115	2	30				
Batch number: 131705713004	Sample number(s): 7098186-7098195 UNSPK: 7098192 BKG: 7098192								
Mercury	96	92	80-120	4	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

**.-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398187

Reported: 07/03/13 at 02:15 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 131705713005 Mercury	93	90	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 131745705002 Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Calcium	126 (2)	137 (2)	81-118	1	20	43.5	43.2	1	20
Magnesium	123 (2)	128 (2)	75-125	1	20	13.0	13.0	0	20
Batch number: 131765705007 Cadmium	99	98	83-116	0	20	N.D.	N.D.	0 (1)	20
Batch number: 131766050002A Antimony	112	108	75-125	4	20	N.D.	N.D.	0 (1)	20
Arsenic	102	106	75-125	4	20	0.00079 J	0.00095 J	18 (1)	20
Lead	101	103	83-120	2	20	0.00011 J	0.00012 J	9 (1)	20
Batch number: 131766050003A Antimony	115	102	75-125	12	20	N.D.	N.D.	0 (1)	20
Arsenic	106	100	75-125	5	20	0.0014 J	0.0012 J	13 (1)	20
Lead	103	104	83-120	1	20	0.0013	0.0011	16 (1)	20
Batch number: 13177655901B Chloride	101		90-110			13.6	13.6	0	20
Fluoride	105		90-110			N.D.	N.D.	0 (1)	20
Sulfate	103		90-110			22.1	22.2	0 (1)	20
Batch number: 13179002201A Ammonia	92	94	40-144	2	12	1.8	1.8	0	12
Batch number: 13179002201B Ammonia	92	95	40-144	3	12	0.18 J	0.21	15* (1)	12

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: Y131722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7098186	88	91	91	87
7098188	89	90	93	88
7098190	89	91	94	89

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398187

Reported: 07/03/13 at 02:15 PM

Surrogate Quality Control

7098192	90	91	94	88
7098193	89	93	95	92
7098194	89	93	95	92
7098200	88	91	94	89
7098202	88	92	94	89
7098204	88	91	94	90
7098206	89	90	94	89
Blank	89	91	94	89
LCS	89	92	95	91
MS	89	93	95	92
MSD	89	93	95	92

Limits: 80-116 77-113 80-113 78-113

Analysis Name: Acetaldehyde

Batch number: 131710014A

Butyraldehyde

7098186	76
7098188	75
7098190	76
7098192	82
7098193	94
7098194	93
7098200	77
7098202	68
7098204	76
Blank	63
LCS	75
MS	94
MSD	93

Limits: 45-145

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1398187 Sample No.: 7098186-206 Cooler No.: 23632 25666
 Acc't: 07032 SF: 182283 SCR No.: 140995 °C
 Cooler Temperature upon receipt: 0.5-0.9 Container No.: 1-3

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1398187 Sample Nos.: 7098186-205

Acct't: 07032 SF: 182283 SCR No.: 140905 Cooler No.: C

Cooler Temperature upon receipt: 0.5-0.9 °C Container:

Comments:

Comments:
Metals = Sb, As, Pb (6020);
Cd (6010); Hg

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Cooler Temperature upon receipt: 05.09 °C
Container No.: 1-3

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2500

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Page 4 of 49

Analysis Request / Environmental Services Chain of Custody

1 of 1



For Lancaster Laboratories Use Only

Group No.: 1398187 Sample Nos.: 7098186-206
 Acc't: 07032 SF: 182283 SCR No.: 140905 Cooler No.: 01326 25663
 Cooler Temperature upon receipt: 05.09 °C Container No.: 13

Facility Name: DuPont Montague		Project Manager: George Gregory		Analyses Required		Comments: Metals = Sb, As, Pb (6020); Cd (6010); Hg	
Facility Contact: Steve DeVries		Facility Contact Phone No.: 231-893-9263					
Facility Address: DuPont Montague		Job No.: 9267-7720100C-WH06507756					
6270 Wilkes Road		Release No.:					
Montague MI 49437		PO Number: LBIO-66380					
Sampler(s): <u>JM, B2</u>							
Project Name: REM INVEST SW 6/13							
Sample Identification	Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	Containers
RI0613-2013SW-	<u>6/10</u>	<u>12:00</u>	WW	250	HNO3	1	
RI0613-2013SW-			WW	1000	H2SO4	1	
RI0613-2013SW-			WW	250	None	1	
RI0613-2013SW-			WW	250	None	1	
RI0613-2013SW- -Z			WW	250	HNO3	1	
RI0613-2013SW-			WW	250	HNO3	1	
RI0613-2013SW-			WW	1000	H2SO4	1	
RI0613-2013SW-			WW	250	None	1	
RI0613-2013SW-			WW	250	None	1	
RI0613-2013SW- -Z			WW	250	HNO3	1	

Turnaround Time Requested (please circle): <u>Standard</u>		RUSH		Number of days: <u>8</u>	
Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date:	Time:
<u>Bob Megachko</u>	<u>6/13/13</u>	<u>9:18</u>			
Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date:	Time:
<u>W. J. (Bill Reese)</u>	<u>6/18/13</u>	<u>1900</u>			
Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date:	Time:

Special Instructions:	

Date: <u>6-19-13</u>		Time: <u>905</u>	
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Environmental Sample Administration
Receipt Documentation Log

Grp #1398187

Client/Project: Dupon +Shipping Container Sealed: YES NODate of Receipt: 6-19-13Custody Seal Present *: YES NOTime of Receipt: 905* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	D+131	0.9	TB	WI	X	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	0.5	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

COC 25915 TO 061813SD = TB061813SD
R10613-2013SW Rec 6 vials 3 (ms) 3 (msd)
not on COC EB061813SW
COC 25665 ~~EB061813SW~~ = EB0613SW
~~COC 25659 Did not Rec Chloride, Sulfate bottle~~
BUB 2299 6-19-13 ③

Unpacker Signature/Emp#: Bunny 2299Date/Time: 6-19-13 1036

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 03, 2013

Project: MTG - REM INVESTIGATION SW

Submittal Date: 06/20/2013

Group Number: 1398463

PO Number: LBIO-66380

State of Sample Origin: MI

Client Sample Description

RI0613-2013SW-01 Surface Water
RI0613-2013SW-01-Z Surface Water
RI0613-2013SW-01-D Surface Water
RI0613-2013SW-01-Z-D Surface Water
RI0613-2013SW-02 Surface Water
RI0613-2013SW-02-Z Surface Water
RI0613-2013SW-03 Surface Water
RI0613-2013SW-03-Z Surface Water
RI0613-2013SW-08 Surface Water
RI0613-2013SW-08-Z Surface Water
RI0613-2013SW-09 Surface Water
RI0613-2013SW-09-Z Surface Water
EB-061913-SW Blank Water
EB-061913-SW-Z Blank Water
TB-061913-SW Blank Water

Lancaster Labs (LL)

7099630
7099631
7099632
7099633
7099634
7099635
7099636
7099637
7099638
7099639
7099640
7099641
7099642
7099643
7099644

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: RI0613-2013SW-01 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099630
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones SW-846 8315A						
13022	Acetaldehyde	75-07-0	N.D.	40	120	1
Reporting limits were raised due to interference from the sample matrix.						
Metals SM 2340 B-1997						
06256	Total Hardness as CaCO ₃	471-34-1	168	0.033	0.20	1
SW-846 6010B						
07049	Cadmium	7440-43-9	0.0033 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	44.3	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.9	0.0167	0.100	1
SW-846 6020						
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0016 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0025	0.000085	0.0010	1
SW-846 7470A						
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry EPA 300.0						
00224	Chloride	16887-00-6	15.7	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	20.1	1.5	5.0	5
SM 4500-NH3 D-1997						
12679	Ammonia	7664-41-7	0.23	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-01 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099630
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/20/2013 09:00

URS Corporation

Reported: 07/03/2013 17:32

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

MTSW1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 13:30	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 13:30	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 21:49	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:26	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:26	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:26	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:10	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:46	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:46	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:28	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 08:19	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 08:19	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 08:19	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:01	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-01-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099631
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00080 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:16	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:12	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:48	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:48	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:30	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-01-D Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099632
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTS1D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	40 J	40	120	1
Due to a laboratory error during the initial extraction, no useable data was obtained. The sample was re-extracted outside the method required holding time. All results are reported from the second trial per client request.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	167	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	44.3	0.0334	0.200	1
01757	Magnesium	7439-95-4	13.8	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0015 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0026	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	15.8	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	21.0	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.21	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-01-D Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099632
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/20/2013 09:00

URS Corporation

Reported: 07/03/2013 17:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MTS1D

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 13:52	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 13:52	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131770001A	06/26/2013 22:53	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	3	131770001A	06/26/2013 10:00	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:30	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:30	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:30	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:50	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:50	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:43	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 09:08	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 09:08	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 09:08	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:06	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-01-Z-D Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099633
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
		SW-846 6010B	mg/l	mg/l	mg/l	
		SW-846 6020	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.00077 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00024 J	0.000085	0.0010	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:20	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:16	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:52	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:45	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-02 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099634
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	43 J	40	120	1
Due to a laboratory error during the initial extraction, no useable data was obtained. The sample was re-extracted outside the method required holding time. All results are reported from the second trial per client request.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	173	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	45.5	0.0334	0.200	1
01757	Magnesium	7439-95-4	14.4	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0014 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0023	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	14.6	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	20.9	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.23	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-02 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099634
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:45 by BR

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/20/2013 09:00

URS Corporation

Reported: 07/03/2013 17:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MTSW2

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 14:13	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 14:13	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131770001A	06/26/2013 23:01	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	3	131770001A	06/26/2013 10:00	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:34	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:34	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:34	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:17	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:53	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:53	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:47	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 09:24	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 09:24	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 09:24	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:11	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-02-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099635
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 10:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00048 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:24	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 12:19	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:55	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:55	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:49	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-03 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099636
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 11:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	40	120	1
Reporting limits were raised due to interference from the sample matrix.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	174	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	46.0	0.0334	0.200	1
01757	Magnesium	7439-95-4	14.4	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0018 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.0022	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	15.3	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	21.1	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.46	0.060	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-03 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099636
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 11:30 by BR

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/20/2013 09:00

URS Corporation

Reported: 07/03/2013 17:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MTSW3

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 14:34	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 14:34	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 22:23	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:38	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:38	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:38	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:24	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:24	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:24	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:51	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 10:12	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 10:12	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 10:12	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:16	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-03-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099637
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 11:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.00077 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:28	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:31	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:31	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:31	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:53	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-08 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099638
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	196	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	50.9	0.0334	0.200	1
01757	Magnesium	7439-95-4	16.7	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00018 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	4.4	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	12.4	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.15 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-08 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099638
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 14:55	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 14:55	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 22:32	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:49	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:49	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:49	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:33	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:33	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:33	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:55	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 10:29	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 10:29	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 10:29	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:21	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-08-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099639
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:32	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:34	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:34	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:34	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:57	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-09 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099640
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	214	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	56.4	0.0334	0.200	1
01757	Magnesium	7439-95-4	17.8	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	0.0016 J	0.00042	0.0020	1
06035	Lead	7439-92-1	0.00031 J	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	7.0	1.0	2.0	5
01504	Fluoride	16984-48-8	N.D.	0.40	0.50	5
00228	Sulfate	14808-79-8	26.7	1.5	5.0	5
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.14 J	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-09 Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099640
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSW9

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 15:16	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 15:16	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 22:40	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:53	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:53	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:53	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:36	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 08:59	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 10:45	Christopher D Meeks	5
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 10:45	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 10:45	Christopher D Meeks	5
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:27	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SW-09-Z Surface Water
REM INVEST SW 6/13

LL Sample # WW 7099641
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	0.0016 J	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:43	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:38	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:38	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:38	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 09:06	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7099642
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSWE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	28 J	20	60	1
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	0.19 J	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.0757 J	0.0334	0.200	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 4500-NH3 D-1997		mg/l	mg/l	mg/l	
12679	Ammonia	7664-41-7	0.28	0.060	0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7099642
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSWE

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 12:06	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 12:06	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 22:49	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131786256010	06/27/2013 11:40	Jennifer L Moyer	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 22:57	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131745705002	06/26/2013 22:57	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131745705002	06/26/2013 22:57	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:25	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:25	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 09:08	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13178655901B	06/28/2013 11:01	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13178655901B	06/28/2013 11:01	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13178655901B	06/28/2013 11:01	Christopher D Meeks	1
12679	Ammonia	SM 4500-NH3 D-1997	1	13182006201A	07/01/2013 19:32	Michelle L Lalli	1
04219	Ammonia	SM 4500-NH3 B-1997	1	13182421901A	07/01/2013 14:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-061913-SW-Z Blank Water
REM INVEST SW 6/13

LL Sample # WW 7099643
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07049	Cadmium	SW-846 6010B 7440-43-9	mg/l N.D.	mg/l 0.00076	mg/l 0.0050	1
06024	Antimony	SW-846 6020 7440-36-0	mg/l N.D.	mg/l 0.00034	mg/l 0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000070	mg/l 0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07049	Cadmium	SW-846 6010B	1	131765705007	06/29/2013 10:47	Katlin N Cataldi	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 09:47	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 09:47	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 09:47	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713003	06/23/2013 09:10	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131765705007	06/26/2013 17:12	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713003	06/22/2013 09:35	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-061913-SW Blank Water
REM INVEST SW 6/13

LL Sample # WW 7099644
LL Group # 1398463
Account # 07032

Project Name: MTG - REM INVESTIGATION SW

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/03/2013 17:32

MTSWT

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 12:27	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 12:27	Angela D Sneeringer	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/03/13 at 05:32 PM

Group Number: 1398463

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Y131791AA	Sample number(s): 7099630, 7099632, 7099634, 7099636, 7099638, 7099640, 7099642, 7099644								
Acetone	N.D.	6.	20	ug/l	81	78	35-181	4	30
Benzene	N.D.	0.5	5	ug/l	100	95	77-121	5	30
Carbon Tetrachloride	N.D.	1.	5	ug/l	100	97	65-137	3	30
Chloroform	N.D.	0.8	5	ug/l	100	96	77-122	4	30
Dichlorodifluoromethane	N.D.	2.	5	ug/l	84	78	35-122	7	30
1,1-Dichloroethane	N.D.	1.	5	ug/l	103	98	79-120	5	30
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	99	94	80-120	5	30
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	106	101	80-120	4	30
Freon 113	N.D.	2.	10	ug/l	97	93	69-128	4	30
Methylene Chloride	N.D.	2.	5	ug/l	105	102	84-118	4	30
Tetrachloroethene	N.D.	0.8	5	ug/l	104	98	79-120	6	30
Tetrahydrofuran	N.D.	4.	10	ug/l	100	98	52-156	3	30
Toluene	N.D.	0.7	5	ug/l	104	98	79-120	6	30
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	90	87	66-126	4	30
Trichloroethene	N.D.	1.	5	ug/l	101	97	80-120	4	30
Trichlorofluoromethane	N.D.	2.	5	ug/l	86	81	65-130	7	30
Batch number: 131710014A	Sample number(s): 7099630, 7099636, 7099638, 7099640, 7099642								
Acetaldehyde	N.D.	20.	60	ug/l	71		56-123		
Batch number: 131770001A	Sample number(s): 7099632, 7099634								
Acetaldehyde	N.D.	20.	60	ug/l	83	82	56-123	1	30
Batch number: 131725713003	Sample number(s): 7099630-7099643								
Mercury	N.D.	0.00007	0.00020	mg/l	103		80-120		
Batch number: 131745705002	Sample number(s): 7099630, 7099632, 7099634, 7099636, 7099638, 7099640, 7099642								
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Calcium	0.0499 J	0.0334	0.200	mg/l	106		90-110		
Magnesium	N.D.	0.0167	0.100	mg/l	104		90-110		
Batch number: 131765705007	Sample number(s): 7099631, 7099633, 7099635, 7099637, 7099639, 7099641, 7099643								
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Batch number: 131766050002A	Sample number(s): 7099630-7099635								
Antimony	N.D.	0.00034	0.0010	mg/l	106		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	99		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	100		90-115		
Batch number: 131766050003A	Sample number(s): 7099636-7099643								

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/03/13 at 05:32 PM

Group Number: 1398463

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Antimony	N.D.	0.00034	0.0010	mg/l	109		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	104		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	102		90-115		

Batch number: 13178655901B	Sample number(s): 7099630,7099632,7099634,7099636,7099638,7099640,7099642
Chloride	N.D. 0.20 0.40 mg/l 96 90-110
Fluoride	N.D. 0.080 0.10 mg/l 95 90-110
Sulfate	N.D. 0.30 1.0 mg/l 98 90-110

Batch number: 13182006201A	Sample number(s): 7099630,7099632,7099634,7099636,7099638,7099640,7099642
Ammonia	0.12 J 0.060 0.20 mg/l 98 80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 131710014A	Sample number(s): 7099630,7099636,7099638,7099640,7099642 UNSPK: P098192								
Acetaldehyde	86	84	79-115	2	30				
Batch number: 131725713003	Sample number(s): 7099630-7099643 UNSPK: 7099631 BKG: 7099631								
Mercury	104	101	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 131745705002	Sample number(s): 7099630,7099632,7099634,7099636,7099638,7099640,7099642 UNSPK: P098192 BKG: P098192								
Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Calcium	126 (2)	137 (2)	81-118	1	20	43.5	43.2	1	20
Magnesium	123 (2)	128 (2)	75-125	1	20	13.0	13.0	0	20
Batch number: 131765705007	Sample number(s): 7099631,7099633,7099635,7099637,7099639,7099641,7099643 UNSPK: P098196 BKG: P098196								
Cadmium	99	98	83-116	0	20	N.D.	N.D.	0 (1)	20
Batch number: 131766050002A	Sample number(s): 7099630-7099635 UNSPK: P098196 BKG: P098196								
Antimony	112	108	75-125	4	20	N.D.	N.D.	0 (1)	20
Arsenic	102	106	75-125	4	20	0.00079 J	0.00095 J	18 (1)	20
Lead	101	103	83-120	2	20	0.00011 J	0.00012 J	9 (1)	20
Batch number: 131766050003A	Sample number(s): 7099636-7099643 UNSPK: P098192 BKG: P098192								
Antimony	115	102	75-125	12	20	N.D.	N.D.	0 (1)	20
Arsenic	106	100	75-125	5	20	0.0014 J	0.0012 J	13 (1)	20
Lead	103	104	83-120	1	20	0.0013	0.0011	16 (1)	20
Batch number: 13178655901B	Sample number(s): 7099630,7099632,7099634,7099636,7099638,7099640,7099642 UNSPK: 7099630 BKG: 7099630								
Chloride	103		90-110			15.7	15.6	1	20
Fluoride	107		90-110			N.D.	N.D.	0 (1)	20
Sulfate	115*		90-110			20.1	20.7	3 (1)	20
Batch number: 13182006201A	Sample number(s): 7099630,7099632,7099634,7099636,7099638,7099640,7099642 UNSPK:								

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398463

Reported: 07/03/13 at 05:32 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
	P102555	BKG: P102555							
Ammonia	97	95	40-144	2	12	0.060 J	0.080 J	29* (1)	12

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: Y131791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7099630	88	89	93	89
7099632	88	90	93	88
7099634	88	90	93	89
7099636	88	92	93	89
7099638	88	90	93	89
7099640	89	91	94	89
7099642	87	90	94	91
7099644	87	89	94	90
Blank	87	89	94	90
LCS	87	89	95	91
LCSD	87	92	94	91
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Acetaldehyde

Batch number: 131710014A

	Butyraldehyde
7099630	56
7099636	53
7099638	65
7099640	63
7099642	63
Blank	63
LCS	75
MS	94
MSD	93
Limits:	45-145

Analysis Name: Acetaldehyde

Batch number: 131770001A

	Butyraldehyde
7099632	93
7099634	94
Blank	83

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398463

Reported: 07/03/13 at 05:32 PM

Surrogate Quality Control

LCS	84
LCSD	86

Limits: 45-145

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

[illegible]



Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only
Group No.: 1398463 Sample Nos.: 7099630-44 Cooler No.: C03374 25650
Acc't: 07032 SF: 182283 SCR No.: 140905 Container No.: 2
Cooler Temperature upon receipt: 0.7 °C

Project Manager: George Gregory				Analyses Required										Comments:		
Facility Name: DuPont Montague				Metals = Sb, As, Pb (6020); Cd (6010); Hg												
Facility Contact: Steve DeVries				Facility Contact Phone No.: 231-893-9263												
Facility Address: DuPont Montague				Job No.: 9267-7720100C-WH06507756												
6270 Wilkes Road				Release No.:												
Montague MI 49437				PO Number: LBIO-66380												
Sampler(s): <u>BR, JM</u>																
Project Name: REM INVEST SW 6/13																
Sample Identification		Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	Containers	Acetaldehyde (B315)	Cl- (300.0)	F- (300.0)	Metals	Ca, Mg (6010B)	NH3 (4500 NH3 B&C)	SO4 (300.0)	Hardness (SM18 2340 B)	Condition upon receipt:
R10613-2013SW-01		6/19	1015	WW	250	HNO3	1				X	X			X	Protect
R10613-2013SW-01				WW	1000	H2SO4	1						X			
R10613-2013SW-01				WW	250	None	1	X								
R10613-2013SW-01				WW	250	None	1		X							
R10613-2013SW-01-Z				WW	250	HNO3	1				X					
R10613-2013SW-01-D				WW	250	HNO3	1				X	X			X	
R10613-2013SW-01-D				WW	1000	H2SO4	1						X			
R10613-2013SW-01-D				WW	250	None	1	X								
R10613-2013SW-01-D				WW	250	None	1		X					X		
R10613-2013SW-01-D				WW	250	None	1			X						
R10613-2013SW-01-D				WW	250	None	1				X					

Turnaround Time Requested (please circle):		Standard		RUSH		Number of days: 8	
Bottles Relinquished by:	<u>Log Megashko</u>	Date	<u>6/13/13</u>	Time	<u>8:18</u>	Bottles Received by:	
Bottles Relinquished by:	<u>Bill Reese</u>	Date	<u>6/19/13</u>	Time	<u>1500</u>	Bottles Received by:	
Bottles Relinquished by:		Date		Time		Bottles Received by:	
Bottles Relinquished by:		Date		Time		Bottles Received by:	

Special Instructions:		Date		Time	
		Date	<u>6/13/13</u>	Time	<u>0800</u>
		Date		Time	
		Date		Time	
		Date		Time	

[illegible][illegible][illegible]

Facility Name: DuPont Montague
Facility Contact: Steve DeVries

Facility Address: DuPont Montague

[illegible]

6270 Wilkes Road

Montague MI 49437

Sampler(s): BP, VM

Project Name: REM INVEST SW 6/13

[illegible]

Sample Identification	Col	Date
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RI0613-2013SW-03	6
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RI0613-2013SW-03	
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RI0613-2013SW-03

RI0613-2013SW-03

RI0613-2013SW-03-Z	
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[illegible][illegible]

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Turnaround Time Requested (please circle):

Bottles Relinquished by:
Alga Mersanko

Bottles Relinquished by: 1 BILL REE

Bottles Relinquished by: Wm. Lee

Bottles Relinquished by:

— 250 —

Conies: White co

Copies: 100000

Environmental Sample Administration
Receipt Documentation Log

Grp # 1398463

Client/Project: DuPont MontagueDate of Receipt: 6/20/13Time of Receipt: 0900Source Code: 50-1Shipping Container Sealed: YES NOCustody Seal Present * : YES NO* Custody seal was intact unless otherwise noted in the
discrepancy sectionPackage: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	0.8	TB	WI	Y	B	
2	↓	0.7	↓	↓	↓	↓	
3	↓	0.7	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: CCShh 3647 Date/Time: 6/20/13 1010

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

**ADQM DATA REVIEW
NARRATIVE**

Site **MTG/ Montague**

Project **Remedial Investigation Sediment 6/13**

Project Reviewer **Dyana Sagges**

Sampling Date **6/18 and 6/19/13**

Analytical Protocol

LABORATORY	ANALYSIS	METHOD
Lancaster Labs, Lancaster PA		
	Select List VOA + TICs Library Search 1,1-Dichloro-1,2,2,2-tetrafluoroethane (CFC-114a), 1,1,-Dichloro-2,2,2-trifluoroethane (HCFC-123), Chlorofluoromethane (Freon 22) (Library Search not requested)	SW-846 8260B
	Acetaldehyde	SW-846 8315A
	Select List Metals Cadmium Antimony, Arsenic, Lead Mercury	SW-846 6010B SW-846 6020 SW-846 7471A mod soil/7470A water
	Ammonia	SM 4500-NH3 B/C mod-1997
	Chloride, Fluoride, Sulfate	EPA 300.0
	Moisture	SM 2540 G-1997
	TOC	Lloyd Kahn mod. (sediment)/ SM 5310 C-2000 (water)

TerraSense, LLC, Totowa, NJ	Grain Size	ASTM D422
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Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on 6/19/13 and 6/20/13 at Lancaster Labs and 6/19/13 at TerraSense, LLC, Totowa, NJ.
- The field samplers did not fill in their names on the chain of custody forms. Cross-offs on the chain of custody forms have not been initialed and dated.
- TICs on the VOA samples were not requested for this sampling event. There is a comment in the data report about Library Search being performed, but there will not be any Tentatively Identified Compound Forms (Form 1E) included in the data report.
- Report from TerraSense has the project mislabeled as Perm Invest SW 6/13, the project name is Remedial Investigation Sediment 6/13. Sample ids have been modified from "SW-" to "SED-" in the database.
- The MS/MSD samples on the Lancaster Labs chain of custody forms did not have the sample id filled in. The information was retrieved from the label on the sample jars.

Data Review

The electronic data submitted for this project was reviewed via the DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification. Some of the data was qualified due to detections in the imprecision between the lab replicate and the parent sample, matrix spike/matrix spike duplicate that did not meet criteria, LCS/LCSD that did not meet criteria and results detected between the method detection limit and the practical quantitation limit.

- Ammonia reporting limit for some samples is elevated due to interference from the sample matrix.
- A request was made by the lab on June 28, 2013 to raise the soil MDL of Acetaldehyde from 400 ug/kg to 600 ug/kg.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the DuPont CRG Envista database and run through an automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria; checked for blank contamination; assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes; laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPDs between these spikes; assessed against RPDs between laboratory replicates (inorganics); and assessed against surrogate spike recoveries (organics). The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date		Lab Sample ID	Analyte	Result	Units	Type	MDL	Validation		Analytical Method	Pre-prep	Prep
	Sampled								PQL	Qualifier			
R10613-2013SED-08	06/19/2013		7099668	ACETALDEHYDE	20000	UG/KG	MDL	20000	33000	UJ	8315A		8315A
R10613-2013SED-03	06/19/2013		7099667	ACETALDEHYDE	700	UG/KG	MDL	700	1200	UJ	8315A		8315A

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date		Lab Sample ID	Analyte	Result	Units	Type	MDL	Validation		Analytical Method	Pre-prep	Prep
	Sampled								PQL	Qualifier			
R10613-2013SED-02	06/19/2013		7099666	ANTIMONY	0.0974	MG/KG	MDL	0.0974	0.227	UJ	6020		3050B
R10613-2013SED-03	06/19/2013		7099667	ANTIMONY	0.0992	MG/KG	MDL	0.0992	0.231	UJ	6020		3050B
R10613-2013SED-08	06/19/2013		7099668	ANTIMONY	0.279	MG/KG	MDL	0.279	0.649	UJ	6020		3050B
R10613-2013SED-01	06/19/2013		7099665	ANTIMONY	0.103	MG/KG	MDL	0.103	0.240	UJ	6020		3050B

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013SED-09	06/19/2013	7099669	ARSENIC	5.86	MG/KG	MDL	0.398	1.89	J	6020		3050B
R10613-2013SED-08	06/19/2013	7099668	ARSENIC	1.91	MG/KG	MDL	0.273	1.30	J	6020		3050B
R10613-2013SED-03	06/19/2013	7099667	ARSENIC	0.391	MG/KG	MDL	0.0969	0.461	J	6020		3050B
R10613-2013SED-02	06/19/2013	7099666	ARSENIC	0.348	MG/KG	MDL	0.0951	0.453	J	6020		3050B
R10613-2013SED-09	06/19/2013	7099669	CHLORIDE	26.3	MG/KG	MDL	24.0	48.0	J	300.0		300.0
R10613-2013SED-04	06/18/2013	7098176	SULFATE	7.9	MG/KG	MDL	5.9	17.7	J	300.0		300.0
R10613-2013SED-05	06/18/2013	7098177	SULFATE	7.7	MG/KG	MDL	6.0	18.0	J	300.0		300.0
R10613-2013SED-06	06/18/2013	7098174	SULFATE	10.1	MG/KG	MDL	6.1	18.2	J	300.0		300.0
R10613-2013SED-07	06/18/2013	7098175	SULFATE	10.4	MG/KG	MDL	6.0	17.9	J	300.0		300.0
R10613-2013SED-01	06/19/2013	7099665	ARSENIC	0.407	MG/KG	MDL	0.101	0.481	J	6020		3050B

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013SED-08	06/19/2013	7099668	PERCENT MOISTURE	69.8	%	MDL	0.50	0.50	J	2540 G-1997		
R10613-2013SED-09	06/19/2013	7099669	PERCENT MOISTURE	79.3	%	MDL	0.50	0.50	J	2540 G-1997		
R10613-2013SED-09	06/19/2013	7099669	MERCURY	0.189	MG/KG	MDL	0.0447	0.447	J	7471A		7471A MOD.
R10613-2013SED-08	06/19/2013	7099668	MERCURY	0.109	MG/KG	MDL	0.0326	0.326	J	7471A		7471A MOD.

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
R10613-2013SED-02	06/19/2013	7099666	ACETALDEHYDE	800	UG/KG	MDL	700	1200	J	8315A		8315A
R10613-2013SED-09	06/19/2013	7099669	ACETALDEHYDE	3000	UG/KG	MDL	2900	4800	J	8315A		8315A
R10613-2013SED-01	06/19/2013	7099665	ACETALDEHYDE	830	UG/KG	MDL	730	1200	J	8315A		8315A

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The reported result may be biased low.

Field Sample ID	Date		Lab Sample ID	Analyte	Result	Units	Type	MDL	Validation		Analytical Method	Pre-prep	Prep
	Sampled								PQL	Qualifier			
R10613-2013SED-09	06/19/2013		7099669	ANTIMONY	0.509	MG/KG	MDL	0.407	0.947	J	6020		3050B

Site: Montague

Sampling Program: REM INVESTIGATION SED 6/13

Validation Options: LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EQ-061813-SD	06/18/2013	7098184	CHLORIDE	0.39	MG/L	MDL	0.20	0.40	J	300.0		
EQ-061813-SD	06/18/2013	7098184	BENZENE	0.5	UG/L	MDL	0.5	5	J	8260B		5030B
EQ-061913-SD	06/19/2013	7099670	CHLORIDE	0.27	MG/L	MDL	0.20	0.40	J	300.0		
EQ-061913-SD	06/19/2013	7099670	ACETALDEHYDE	24	UG/L	MDL	20	60	J	8315A		8315A
RI0613-2013SED-10	06/18/2013	7098181	ACETONE	20	UG/KG	MDL	10	29	J	8260B		5035A
RI0613-2013SED-10	06/18/2013	7098181	ARSENIC	0.470	MG/KG	MDL	0.102	0.486	J	6020		3050B
RI0613-2013SED-10	06/18/2013	7098181	CADMIUM	0.103	MG/KG	MDL	0.0923	0.608	J	6010B		3050B
RI0613-2013SED-11	06/18/2013	7098182	ACETALDEHYDE	750	UG/KG	MDL	710	1200	J	8315A		8315A
RI0613-2013SED-08	06/19/2013	7099668	CADMIUM	0.422	MG/KG	MDL	0.247	1.62	J	6010B		3050B
RI0613-2013SED-09	06/19/2013	7099669	CADMIUM	0.696	MG/KG	MDL	0.360	2.37	J	6010B		3050B
RI0613-2013SED-09	06/19/2013	7099669	AMMONIA	487000	UG/KG	MDL	246000	739000	J	4500-NH3 B/C modified-1997		
RI0613-2013SED-09	06/19/2013	7099669	TETRACHLOROETHE NE	9	UG/KG	MDL	8	42	J	8260B		5035A
RI0613-2013SED-09	06/19/2013	7099669	FLUORIDE	3.9	MG/KG	MDL	3.8	4.8	J	300.0		300.0
RI0613-2013SED-04	06/18/2013	7098176	ARSENIC	0.349	MG/KG	MDL	0.101	0.481	J	6020		3050B
RI0613-2013SED-04-D	06/18/2013	7098183	SULFATE	6.1	MG/KG	MDL	5.9	17.6	J	300.0		300.0
RI0613-2013SED-04-D	06/18/2013	7098183	ARSENIC	0.371	MG/KG	MDL	0.0976	0.465	J	6020		3050B
RI0613-2013SED-05	06/18/2013	7098177	ARSENIC	0.321	MG/KG	MDL	0.102	0.485	J	6020		3050B
RI0613-2013SED-06	06/18/2013	7098174	ARSENIC	0.376	MG/KG	MDL	0.101	0.482	J	6020		3050B
RI0613-2013SED-07	06/18/2013	7098175	ARSENIC	0.403	MG/KG	MDL	0.101	0.481	J	6020		3050B
RI0613-2013SED-07	06/18/2013	7098175	TOTAL ORGANIC CARBON	124	MG/KG	MDL	122	365	J	LLOYD KAHN		
RI0613-2013SED-02	06/19/2013	7099666	SULFATE	8.0	MG/KG	MDL	5.9	17.6	J	300.0		300.0
RI0613-2013SED-01	06/19/2013	7099665	SULFATE	8.8	MG/KG	MDL	6.1	18.2	J	300.0		300.0

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 01, 2013

Project: MTG - REM INVESTIGATION SEDIMENT

Submittal Date: 06/19/2013

Group Number: 1398186

PO Number: LBIO-66380

State of Sample Origin: MI

Client Sample DescriptionRI0613-2013SED-06 Sediment
RI0613-2013SED-07 Sediment
RI0613-2013SED-04 Sediment
RI0613-2013SED-05 Sediment
RI0613-2013SED-05 MS Sediment
RI0613-2013SED-05 MSD Sediment
RI0613-2013SED-05 Dupl Sediment
RI0613-2013SED-10 Sediment
RI0613-2013SED-11 Sediment
RI0613-2013SED-04-D Sediment
EQ-061813-SD Blank Water
TB-061813-SD Blank WaterLancaster Labs (LL) #7098174
7098175
7098176
7098177
7098178
7098179
7098180
7098181
7098182
7098183
7098184
7098185

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: RI0613-2013SED-06 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098174
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 10:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	9	26	1.05
10237	Benzene	71-43-2	N.D.	0.6	6	1.05
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.05
10237	Chloroform	67-66-3	N.D.	1	6	1.05
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	6	1.05
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.05
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.05
10237	Freon 113	76-13-1	N.D.	3	13	1.05
10237	Methylene Chloride	75-09-2	N.D.	3	6	1.05
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.05
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.05
10237	Toluene	108-88-3	N.D.	1	6	1.05
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1.05
10237	Trichloroethene	79-01-6	N.D.	1	6	1.05
10237	Trichlorofluoromethane	75-69-4	N.D.	3	6	1.05
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	730	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0915	0.602	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.104	0.241	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.376 J	0.101	0.482	2
06135	Lead	7439-92-1	0.512	0.0193	0.241	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0121	0.121	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	6.1	12.2	1
07332	Fluoride	16984-48-8	N.D.	0.97	1.2	1
07338	Sulfate	14808-79-8	10.1 J	6.1	18.2	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	122	365	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	517	1,550	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-06 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098174
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 10:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	17.8	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 03:33	Stephanie A Selis	1.05
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 14:49	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 14:49	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 14:48	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 14:48	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:02	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:34	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:38	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 05:59	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 05:59	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 05:59	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 01:14	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-07 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098175
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 09:45 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	9	26	1.05
10237	Benzene	71-43-2	N.D.	0.6	6	1.05
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.05
10237	Chloroform	67-66-3	N.D.	1	6	1.05
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	6	1.05
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.05
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.05
10237	Freon 113	76-13-1	N.D.	3	13	1.05
10237	Methylene Chloride	75-09-2	N.D.	3	6	1.05
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.05
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.05
10237	Toluene	108-88-3	N.D.	1	6	1.05
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1.05
10237	Trichloroethene	79-01-6	N.D.	1	6	1.05
10237	Trichlorofluoromethane	75-69-4	N.D.	3	6	1.05
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	730	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0914	0.602	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.103	0.241	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.403 J	0.101	0.481	2
06135	Lead	7439-92-1	0.618	0.0192	0.241	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0116	0.116	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	6.0	11.9	1
07332	Fluoride	16984-48-8	N.D.	0.95	1.2	1
07338	Sulfate	14808-79-8	10.4 J	6.0	17.9	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	124 J	122	365	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	516	1,550	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-07 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098175
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 09:45 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	17.7	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 03:56	Stephanie A Selis	1.05
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 14:52	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 14:53	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 14:52	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 14:52	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:11	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:40	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 06:13	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 06:13	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 06:13	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 01:22	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-04 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098176
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	23	0.97
10237	Benzene	71-43-2	N.D.	0.6	6	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	0.97
10237	Chloroform	67-66-3	N.D.	1	6	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	0.97
10237	Freon 113	76-13-1	N.D.	2	12	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	6	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	6	0.97
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	0.97
10237	Toluene	108-88-3	N.D.	1	6	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	0.97
10237	Trichloroethene	79-01-6	N.D.	1	6	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	0.97
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	720	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0913	0.601	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.103	0.240	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.349 J	0.101	0.481	2
06135	Lead	7439-92-1	0.577	0.0192	0.240	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0116	0.116	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.9	11.8	1
07332	Fluoride	16984-48-8	N.D.	0.95	1.2	1
07338	Sulfate	14808-79-8	7.9 J	5.9	17.7	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	120	361	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	511	1,530	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-04 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098176
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
00111	Moisture	n.a.	16.8	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 04:20	Stephanie A Selis	0.97
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 14:56	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 14:56	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 14:55	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 14:55	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:19	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:42	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 06:27	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 06:27	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 06:27	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 01:31	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098177
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	23	0.96
10237	Benzene	71-43-2	N.D.	0.6	6	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	0.96
10237	Chloroform	67-66-3	N.D.	1	6	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	0.96
10237	Freon 113	76-13-1	N.D.	2	12	0.96
10237	Methylene Chloride	75-09-2	N.D.	2	6	0.96
10237	Tetrachloroethene	127-18-4	N.D.	1	6	0.96
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	0.96
10237	Toluene	108-88-3	N.D.	1	6	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	0.96
10237	Trichloroethene	79-01-6	N.D.	1	6	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	0.96
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	730	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0921	0.606	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.104	0.242	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.321 J	0.102	0.485	2
06135	Lead	7439-92-1	0.423	0.0194	0.242	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0116	0.116	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	6.0	12.0	1
07332	Fluoride	16984-48-8	N.D.	0.96	1.2	1
07338	Sulfate	14808-79-8	7.7 J	6.0	18.0	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	121	364	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	515	1,550	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098177
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
00111	Moisture	n.a.	17.5	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 04:43	Stephanie A Selis	0.96
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:00	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:00	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 14:59	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:00	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:28	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:44	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 03:26	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 03:26	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 03:26	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 01:45	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 MS Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098178
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	150	8	24	0.98
10237	Benzene	71-43-2	23	0.6	6	0.98
10237	Carbon Tetrachloride	56-23-5	27	1	6	0.98
10237	Chloroform	67-66-3	25	1	6	0.98
10237	Dichlorodifluoromethane	75-71-8	25	2	6	0.98
10237	1,1-Dichloroethane	75-34-3	23	1	6	0.98
10237	cis-1,2-Dichloroethene	156-59-2	23	1	6	0.98
10237	trans-1,2-Dichloroethene	156-60-5	24	1	6	0.98
10237	Freon 113	76-13-1	27	2	12	0.98
10237	Methylene Chloride	75-09-2	24	2	6	0.98
10237	Tetrachloroethene	127-18-4	22	1	6	0.98
10237	Tetrahydrofuran	109-99-9	110	5	6	0.98
10237	Toluene	108-88-3	22	1	6	0.98
10237	1,1,1-Trichloroethane	71-55-6	24	1	6	0.98
10237	Trichloroethene	79-01-6	25	1	6	0.98
10237	Trichlorofluoromethane	75-69-4	29	2	6	0.98
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	11,000	730	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	6.11	0.0921	0.606	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.48	0.104	0.242	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	2.88	0.102	0.485	2
06135	Lead	7439-92-1	4.45	0.0194	0.242	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.161	0.0116	0.116	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	46.5	6.0	12.0	1
07332	Fluoride	16984-48-8	12.5	0.96	1.2	1
07338	Sulfate	14808-79-8	75.4	6.0	18.0	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	7,320	241	724	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	4,980	515	1,550	25
Wet Chemistry	SM 2540 G-1997		%	%	%	
00118	Moisture	n.a.	17.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 MS Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098178
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
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General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 05:06	Stephanie A Selis	0.98
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:03	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:04	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 15:03	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:03	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:36	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:50	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 03:54	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 03:54	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 03:54	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 01:53	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 MSD Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098179
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	140	8	24	0.98
10237	Benzene	71-43-2	22	0.6	6	0.98
10237	Carbon Tetrachloride	56-23-5	25	1	6	0.98
10237	Chloroform	67-66-3	25	1	6	0.98
10237	Dichlorodifluoromethane	75-71-8	24	2	6	0.98
10237	1,1-Dichloroethane	75-34-3	22	1	6	0.98
10237	cis-1,2-Dichloroethene	156-59-2	23	1	6	0.98
10237	trans-1,2-Dichloroethene	156-60-5	24	1	6	0.98
10237	Freon 113	76-13-1	25	2	12	0.98
10237	Methylene Chloride	75-09-2	24	2	6	0.98
10237	Tetrachloroethene	127-18-4	21	1	6	0.98
10237	Tetrahydrofuran	109-99-9	120	5	6	0.98
10237	Toluene	108-88-3	21	1	6	0.98
10237	1,1,1-Trichloroethane	71-55-6	23	1	6	0.98
10237	Trichloroethene	79-01-6	24	1	6	0.98
10237	Trichlorofluoromethane	75-69-4	27	2	6	0.98
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	10,000	730	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	6.27	0.0921	0.606	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.77	0.104	0.242	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	2.98	0.102	0.485	2
06135	Lead	7439-92-1	4.88	0.0194	0.242	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.160	0.0117	0.117	1
Wet Chemistry	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	6,610	235	705	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	5,110	515	1,550	25
Wet Chemistry	SM 2540 G-1997		%	%	%	
00118	Moisture	n.a.	17.5	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 MSD Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098179
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 05:30	Stephanie A Selis	0.98
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:07	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:07	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 15:05	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:05	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:45	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:52	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 02:02	James S Mathiot	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 Dupl Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098180
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
06949	Cadmium	SW-846 6010B 7440-43-9	mg/kg N.D.	mg/kg 0.0921	mg/kg 0.606	1
06124	Antimony	SW-846 6020 7440-36-0	mg/kg N.D.	mg/kg 0.104	mg/kg 0.242	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.445 J	0.102	0.485	2
06135	Lead	7439-92-1	0.438	0.0194	0.242	2
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg N.D.	mg/kg 0.0120	mg/kg 0.120	1
Wet Chemistry						
07333	Chloride	EPA 300.0 16887-00-6	mg/kg N.D.	mg/kg 6.0	mg/kg 12.0	1
07332	Fluoride	16984-48-8	N.D.	0.96	1.2	1
07338	Sulfate	14808-79-8	8.0 J	6.0	18.0	1
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg N.D.	mg/kg 121	mg/kg 364	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997 7664-41-7	mg/kg N.D.	mg/kg 515	mg/kg 1,550	25
Wet Chemistry						
00118	Moisture	SM 2540 G-1997 n.a.	% 17.5	% 0.50	% 0.50	1
00121	Moisture Duplicate	n.a.	16.1	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:48	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-05 Dupl Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098180
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201A	06/27/2013 03:40	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201A	06/27/2013 03:40	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201A	06/27/2013 03:40	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 02:09	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201A	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00118	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-10 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098181
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 14:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	20 J	10	29	1.14
10237	Benzene	71-43-2	N.D.	0.7	7	1.14
10237	Carbon Tetrachloride	56-23-5	N.D.	1	7	1.14
10237	Chloroform	67-66-3	N.D.	1	7	1.14
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	7	1.14
10237	1,1-Dichloroethane	75-34-3	N.D.	1	7	1.14
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	7	1.14
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	7	1.14
10237	Freon 113	76-13-1	N.D.	3	14	1.14
10237	Methylene Chloride	75-09-2	N.D.	3	7	1.14
10237	Tetrachloroethene	127-18-4	N.D.	1	7	1.14
10237	Tetrahydrofuran	109-99-9	N.D.	6	7	1.14
10237	Toluene	108-88-3	N.D.	1	7	1.14
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	7	1.14
10237	Trichloroethene	79-01-6	N.D.	1	7	1.14
10237	Trichlorofluoromethane	75-69-4	N.D.	3	7	1.14
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	750	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.103 J	0.0923	0.608	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.104	0.243	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.470 J	0.102	0.486	2
06135	Lead	7439-92-1	1.59	0.0194	0.243	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0121	0.121	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	6.2	12.4	1
07332	Fluoride	16984-48-8	N.D.	0.99	1.2	1
07338	Sulfate	14808-79-8	77.6	6.2	18.6	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	910	252	755	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	532	1,600	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-10 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098181
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 14:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	20.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 07:48	Stephanie A Selis	1.14
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:10	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:11	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 15:10	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:10	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 20:53	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 07:54	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 06:41	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 06:41	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 06:41	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 03:06	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-11 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098182
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 11:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	9	24	1.03
10237	Benzene	71-43-2	N.D.	0.6	6	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.03
10237	Chloroform	67-66-3	N.D.	1	6	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.03
10237	Freon 113	76-13-1	N.D.	2	12	1.03
10237	Methylene Chloride	75-09-2	N.D.	2	6	1.03
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.03
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.03
10237	Toluene	108-88-3	N.D.	1	6	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1.03
10237	Trichloroethene	79-01-6	N.D.	1	6	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	1.03
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	750	J 710	1,200	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0892	0.587	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.101	0.235	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.525	0.0985	0.469	2
06135	Lead	7439-92-1	0.934	0.0188	0.235	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0115	0.115	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.9	11.7	1
07332	Fluoride	16984-48-8	N.D.	0.94	1.2	1
07338	Sulfate	14808-79-8	48.1	5.9	17.6	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	118	355	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	504	1,510	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-11 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098182
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 11:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	15.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 05:52	Stephanie A Selis	1.03
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:13	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:14	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 15:12	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:13	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 21:02	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 22:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 08:00	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 07:22	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 07:22	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 07:22	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 02:46	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-04-D Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098183
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS4D

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	23	0.99
10237	Benzene	71-43-2	N.D.	0.6	6	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	0.99
10237	Chloroform	67-66-3	N.D.	1	6	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	0.99
10237	Freon 113	76-13-1	N.D.	2	12	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	6	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	6	0.99
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	0.99
10237	Toluene	108-88-3	N.D.	1	6	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	0.99
10237	Trichloroethene	79-01-6	N.D.	1	6	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	0.99
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	710	1,100	1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0883	0.581	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0999	0.232	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.371 J	0.0976	0.465	2
06135	Lead	7439-92-1	0.629	0.0186	0.232	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0111	0.111	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.9	11.7	1
07332	Fluoride	16984-48-8	N.D.	0.94	1.2	1
07338	Sulfate	14808-79-8	6.1 J	5.9	17.6	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	118	355	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	504	1,510	25

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-04-D Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7098183
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 13:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTS4D

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
00111	Moisture	n.a.	15.6	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 06:15	Stephanie A Selis	0.99
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317031460	06/19/2013 15:16	Mitchell R Washel	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317031460	06/19/2013 15:17	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317031460	06/19/2013 15:15	Mitchell R Washel	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317031460	06/19/2013 15:16	Mitchell R Washel	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131750011A	06/26/2013 21:19	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131750011A	06/25/2013 11:10	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131715708008	06/27/2013 23:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131715708008A	06/25/2013 08:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131715708008A	06/25/2013 08:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131715708008A	06/25/2013 08:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131715711007	06/25/2013 08:02	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131715708008	06/24/2013 23:47	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131715711007	06/25/2013 02:50	Annamaria Stipkovits	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 07:36	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 07:36	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 07:36	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13170049531B	06/20/2013 02:54	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13170057302A	06/19/2013 19:20	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820004B	06/21/2013 21:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: EQ-061813-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7098184
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:30 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTSEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	0.5 J	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	N.D.	20	60	1
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	0.39 J	0.20	0.40	1
01504	Fluoride	16984-48-8	N.D.	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 5310 C-2000		mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1.0	1
	SM 4500-NH3 B/C modified-1997		mg/l	mg/l	mg/l	
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	0.60	1

*=This limit was used in the evaluation of the final result

Sample Description: EQ-061813-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7098184
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 12:30 by VM

CRG-E.I.DuPont de Nemours & Co

Submitted: 06/19/2013 09:05

URS Corporation

Reported: 07/01/2013 09:07

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

MTSEB

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 22:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 22:06	Kevin A Sposito	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 20:15	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 21:47	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050002A	06/27/2013 11:44	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050002A	06/27/2013 07:20	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050002A	06/27/2013 07:20	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131705713004	06/21/2013 09:03	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050002	06/26/2013 17:40	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131705713004	06/20/2013 16:30	Nelli S Markaryan	1
00224	Chloride	EPA 300.0	1	13177655901B	06/27/2013 15:18	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13177655901B	06/27/2013 15:18	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13177655901B	06/27/2013 15:18	Christopher D Meeks	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13172049508A	06/21/2013 13:18	James S Mathiot	1
00221	Ammonia Nitrogen	SM 4500-NH3 B/C modified-1997	1	13176022101A	06/25/2013 15:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-061813-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7098185
LL Group # 1398186
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/18/2013 17:00 by VM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/19/2013 09:05

Reported: 07/01/2013 09:07

MTSTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1

A targeted library search was performed yielding the following results:
1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane
are non-detect.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131722AA	06/21/2013 22:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131722AA	06/21/2013 22:27	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/01/13 at 09:07 AM

Group Number: 1398186

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: X131732AA	Sample number(s): 7098174-7098179, 7098181-7098183								
Acetone	N.D.	7.	20	ug/kg	85		18-197		
Benzene	N.D.	0.5	5	ug/kg	94		80-120		
Carbon Tetrachloride	N.D.	1.	5	ug/kg	99		69-122		
Chloroform	N.D.	1.	5	ug/kg	102		80-120		
Dichlorodifluoromethane	N.D.	2.	5	ug/kg	83		32-120		
1,1-Dichloroethane	N.D.	1.	5	ug/kg	91		80-120		
cis-1,2-Dichloroethene	N.D.	1.	5	ug/kg	95		80-120		
trans-1,2-Dichloroethene	N.D.	1.	5	ug/kg	99		79-120		
Freon 113	N.D.	2.	10	ug/kg	91		64-137		
Methylene Chloride	N.D.	2.	5	ug/kg	97		76-124		
Tetrachloroethene	N.D.	1.	5	ug/kg	89		78-126		
Tetrahydrofuran	N.D.	4.	5	ug/kg	90		71-132		
Toluene	N.D.	1.	5	ug/kg	92		80-120		
1,1,1-Trichloroethane	N.D.	1.	5	ug/kg	92		71-125		
Trichloroethene	N.D.	1.	5	ug/kg	99		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/kg	104		58-133		
Batch number: Y131722AA	Sample number(s): 7098184-7098185								
Acetone	N.D.	6.	20	ug/l	79		35-181		
Benzene	N.D.	0.5	5	ug/l	96		77-121		
Carbon Tetrachloride	N.D.	1.	5	ug/l	100		65-137		
Chloroform	N.D.	0.8	5	ug/l	97		77-122		
Dichlorodifluoromethane	N.D.	2.	5	ug/l	94		35-122		
1,1-Dichloroethane	N.D.	1.	5	ug/l	98		79-120		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	92		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	98		80-120		
Freon 113	N.D.	2.	10	ug/l	94		69-128		
Methylene Chloride	N.D.	2.	5	ug/l	97		84-118		
Tetrachloroethene	N.D.	0.8	5	ug/l	99		79-120		
Tetrahydrofuran	5	4.	10	ug/l	101		52-156		
Toluene	N.D.	0.7	5	ug/l	100		79-120		
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	97		66-126		
Trichloroethene	N.D.	1.	5	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/l	97		65-130		
Batch number: 131710014A	Sample number(s): 7098184								
Acetaldehyde	N.D.	20.	60	ug/l	71		56-123		
Batch number: 131750011A	Sample number(s): 7098174-7098179, 7098181-7098183								
Acetaldehyde	N.D.	600.	1,000	ug/kg	85		80-120		
Batch number: 131705713004	Sample number(s): 7098184								
Mercury	N.D.	0.00007	0.00020	mg/l	94		80-120		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/01/13 at 09:07 AM

Group Number: 1398186

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131715708008 Cadmium	Sample number(s): 7098174-7098183 N.D.	0.0760	0.500	mg/kg	102		80-120		
Batch number: 131715708008A Antimony	Sample number(s): 7098174-7098183 N.D.	0.0860	0.200	mg/kg	106		80-120		
Arsenic	N.D.	0.0840	0.400	mg/kg	100		80-120		
Lead	0.0186 J	0.0160	0.200	mg/kg	104		80-120		
Batch number: 131715711007 Mercury	Sample number(s): 7098174-7098183 N.D.	0.0100	0.100	mg/kg	85		80-120		
Batch number: 131745705002 Cadmium	Sample number(s): 7098184 N.D.	0.00076	0.0050	mg/l	101		90-112		
Batch number: 131766050002A Antimony	Sample number(s): 7098184 N.D.	0.00034	0.0010	mg/l	106		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	99		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	100		90-115		
	5								
Batch number: 13170049531B Total Organic Carbon	Sample number(s): 7098174-7098183 N.D.	100.	300	mg/kg	90		47-143		
Batch number: 13172049508A Total Organic Carbon	Sample number(s): 7098184 N.D.	0.50	1.0	mg/l	104		91-113		
Batch number: 13177177201A Chloride	Sample number(s): 7098174-7098178, 7098180 N.D.	5.0	10.0	mg/kg	104		90-110		
Fluoride	N.D.	0.80	1.0	mg/kg	97		90-110		
Sulfate	N.D.	5.0	15.0	mg/kg	102		90-110		
Batch number: 13177177201B Chloride	Sample number(s): 7098181-7098183 N.D.	5.0	10.0	mg/kg	104		90-110		
Fluoride	N.D.	0.80	1.0	mg/kg	97		90-110		
Sulfate	N.D.	5.0	15.0	mg/kg	102		90-110		
Batch number: 13177655901B Chloride	Sample number(s): 7098184 N.D.	0.20	0.40	mg/l	97		90-110		
Fluoride	N.D.	0.080	0.10	mg/l	97		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	101		90-110		
Batch number: 13170057302A Ammonia	Sample number(s): 7098174-7098183 N.D.	17.0	51.0	mg/kg	94		89-101		
Batch number: 13176022101A Ammonia Nitrogen	Sample number(s): 7098184 N.D.	0.20	0.60	mg/l	95	94	85-105	1	5
Batch number: 13172820004B Moisture	Sample number(s): 7098174-7098183				100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398186

Reported: 07/01/13 at 09:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: X131732AA	Sample number(s): 7098174-7098179,7098181-7098183 UNSPK: 7098177							
Acetone	82	78	31-195	5	30			
Benzene	97	95	55-143	3	30			
Carbon Tetrachloride	112	107	45-153	5	30			
Chloroform	106	104	61-142	2	30			
Dichlorodifluoromethane	104	100	26-151	5	30			
1,1-Dichloroethane	97	94	63-142	4	30			
cis-1,2-Dichloroethene	98	95	49-153	3	30			
trans-1,2-Dichloroethene	103	101	51-153	2	30			
Freon 113	111	105	56-156	7	30			
Methylene Chloride	100	99	49-160	1	30			
Tetrachloroethene	91	88	42-149	4	30			
Tetrahydrofuran	94	101	53-163	7	30			
Toluene	94	90	50-146	4	30			
1,1,1-Trichloroethane	100	95	43-150	6	30			
Trichloroethene	103	101	53-144	3	30			
Trichlorofluoromethane	122	113	47-163	8	30			
Batch number: Y131722AA	Sample number(s): 7098184-7098185 UNSPK: P098192							
Acetone	77	78	33-159	1	30			
Benzene	99	101	72-134	2	30			
Carbon Tetrachloride	107	108	72-135	2	30			
Chloroform	101	103	81-134	2	30			
Dichlorodifluoromethane	103	105	52-129	1	30			
1,1-Dichloroethane	103	105	84-129	2	30			
cis-1,2-Dichloroethene	96	98	80-141	1	30			
trans-1,2-Dichloroethene	104	107	81-142	2	30			
Freon 113	103	105	89-148	2	30			
Methylene Chloride	101	103	78-133	2	30			
Tetrachloroethene	105	107	80-128	1	30			
Tetrahydrofuran	87	89	43-164	3	30			
Toluene	105	107	80-125	2	30			
1,1,1-Trichloroethane	103	106	69-140	2	30			
Trichloroethene	104	105	88-133	1	30			
Trichlorofluoromethane	102	105	64-146	2	30			
Batch number: 131710014A	Sample number(s): 7098184 UNSPK: P098192							
Acetaldehyde	86	84	79-115	2	30			
Batch number: 131750011A	Sample number(s): 7098174-7098179,7098181-7098183 UNSPK: 7098177							
Acetaldehyde	89	86	80-120	3	50			
Batch number: 131705713004	Sample number(s): 7098184 UNSPK: P098192 BKG: P098192							
Mercury	96	92	80-120	4	20	N.D.	N.D.	0 (1) 20
Batch number: 131715708008	Sample number(s): 7098174-7098183 UNSPK: 7098177 BKG: 7098177							
Cadmium	101	103	75-125	3	20	N.D.	N.D.	0 (1) 20
Batch number: 131715708008A	Sample number(s): 7098174-7098183 UNSPK: 7098177 BKG: 7098177							
Antimony	102	122	75-125	18	20	N.D.	N.D.	0 (1) 20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398186

Reported: 07/01/13 at 09:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Arsenic	106	110	75-125	3	20	0.265 J	0.367 J	32* (1)	20
Lead	111	123	75-125	9	20	0.349	0.361	3 (1)	20
Batch number: 131715711007	Sample number(s): 7098174-7098183 UNSPK: 7098177 BKG: 7098177								
Mercury	83	82	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131745705002	Sample number(s): 7098184 UNSPK: P098192 BKG: P098192								
Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Batch number: 131766050002A	Sample number(s): 7098184 UNSPK: P098196 BKG: P098196								
Antimony	112	108	75-125	4	20	N.D.	N.D.	0 (1)	20
Arsenic	102	106	75-125	4	20	0.00079 J	0.00095 J	18 (1)	20
Lead	101	103	83-120	2	20	0.00011 J	0.00012 J	9 (1)	20
Batch number: 13170049531B	Sample number(s): 7098174-7098183 UNSPK: 7098177 BKG: 7098177								
Total Organic Carbon	101	94	22-155	10	20	N.D.	N.D.	0 (1)	15
Batch number: 13172049508A	Sample number(s): 7098184 UNSPK: P097832 BKG: P097832								
Total Organic Carbon	89		63-142			17.1	16.7	2	4
Batch number: 13177177201A	Sample number(s): 7098174-7098178,7098180 UNSPK: 7098177 BKG: 7098177								
Chloride	193*		90-110			N.D.	N.D.	0 (1)	20
Fluoride	104		90-110			N.D.	N.D.	0 (1)	20
Sulfate	113*		90-110			6.4 J	6.6 J	3 (1)	20
Batch number: 13177177201B	Sample number(s): 7098181-7098183 UNSPK: 7098181 BKG: 7098181								
Chloride	115*		90-110			N.D.	N.D.	0 (1)	20
Fluoride	97		90-110			N.D.	N.D.	0 (1)	20
Sulfate	90		90-110			62.0	59.2	5 (1)	20
Batch number: 13177655901B	Sample number(s): 7098184 UNSPK: P098192 BKG: P098192								
Chloride	101		90-110			13.6	13.6	0	20
Fluoride	105		90-110			N.D.	N.D.	0 (1)	20
Sulfate	103		90-110			22.1	22.2	0 (1)	20
Batch number: 13170057302A	Sample number(s): 7098174-7098183 UNSPK: 7098177 BKG: 7098177								
Ammonia	82	84	78-109	2	5	N.D.	N.D.	0 (1)	10
Batch number: 13176022101A	Sample number(s): 7098184 BKG: P098900								
Ammonia Nitrogen						24.6	24.6	0	6
Batch number: 13172820004B	Sample number(s): 7098174-7098183 BKG: 7098177								
Moisture						17.5	16.1	8	13
Moisture						17.5	16.1	8	15
Moisture Duplicate						17.5	16.1	8	15

Surrogate Quality Control

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398186

Reported: 07/01/13 at 09:07 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL Volatiles

Batch number: X131732AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7098174	102	99	95	99
7098175	104	101	95	101
7098176	105	102	95	99
7098177	107	101	94	101
7098178	103	99	97	105
7098179	104	97	97	103
7098181	107	102	98	91
7098182	104	102	95	98
7098183	106	99	94	100
Blank	103	97	95	101
LCS	102	97	97	103
MS	103	99	97	105
MSD	104	97	97	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: GC/MS Volatiles

Batch number: Y131722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7098184	88	91	93	89
7098185	88	90	94	89
Blank	89	91	94	89
LCS	89	92	95	91
MS	89	93	95	92
MSD	89	93	95	92
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Formaldehyde

Batch number: 131710014A

Butyraldehyde

7098184	70
Blank	63
LCS	75
MS	94
MSD	93
Limits:	45-145

Analysis Name: Formaldehyde

Batch number: 131750011A

Butyraldehyde

7098174	102
7098175	98
7098176	107
7098177	101

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398186

Reported: 07/01/13 at 09:07 AM

Surrogate Quality Control

7098178	97
7098179	96
7098181	96
7098182	102
7098183	83
Blank	101
LCS	91
MS	97
MSD	96

Limits: 64-126

*- Outside of specification

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For Lancaster Laboratories Use Only

For Lancaster Laboratories Use Only

Group No.: 398186
Sample Nos.: 7098174-85

Group No. : 398186
Sample Nos. : 7098174-85

Group No.:	SE: 126083	SCR No: 140906	Cooler No.:
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Group No.:	SE: 126083	SCR No.: 140906	Cooler No.:
------------	------------	-----------------	-------------

Acct: 07032 SF: 120063
BOOK NO.: 170000
COPIES NO.: 500

Acct: 07032 SF: 120063
BOOK NO.: 170000
COPIES NO.: 500

Cooler temperature upon receipt: 50-51 Container # 1Cooler temperature upon receipt: 50-51 Container # 1[illegible]

Group No.: 1398186 Sample No.: 7098174-85 Cooler No.: 25715
 Acc't: 07032 SF: 126083 SCR No.: 149006 Container No.: 13
 Cooler Temperature upon receipt: 0.5-0.9 °C

[illegible]

Lancaster Laboratories Inc 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

~~Lancaster Laboratories, Inc.~~ 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

eurofins

1. *Chlorophyll a*
 2. *Chlorophyll b*
 3. *Chlorophyll c*
 4. *Chlorophyll d*
 5. *Chlorophyll e*
 6. *Chlorophyll f*
 7. *Chlorophyll g*
 8. *Chlorophyll h*
 9. *Chlorophyll i*
 10. *Chlorophyll j*
 11. *Chlorophyll k*
 12. *Chlorophyll l*
 13. *Chlorophyll m*
 14. *Chlorophyll n*
 15. *Chlorophyll o*
 16. *Chlorophyll p*
 17. *Chlorophyll q*
 18. *Chlorophyll r*
 19. *Chlorophyll s*
 20. *Chlorophyll t*
 21. *Chlorophyll u*
 22. *Chlorophyll v*
 23. *Chlorophyll w*
 24. *Chlorophyll x*
 25. *Chlorophyll y*
 26. *Chlorophyll z*
 27. *Chlorophyll aa*
 28. *Chlorophyll ab*
 29. *Chlorophyll ac*
 30. *Chlorophyll ad*
 31. *Chlorophyll ae*
 32. *Chlorophyll af*
 33. *Chlorophyll ag*
 34. *Chlorophyll ah*
 35. *Chlorophyll ai*
 36. *Chlorophyll aj*
 37. *Chlorophyll ak*
 38. *Chlorophyll al*
 39. *Chlorophyll am*
 40. *Chlorophyll an*
 41. *Chlorophyll ao*
 42. *Chlorophyll ap*
 43. *Chlorophyll aq*
 44. *Chlorophyll ar*
 45. *Chlorophyll as*
 46. *Chlorophyll at*
 47. *Chlorophyll au*
 48. *Chlorophyll av*
 49. *Chlorophyll aw*
 50. *Chlorophyll ax*
 51. *Chlorophyll ay*
 52. *Chlorophyll az*
 53. *Chlorophyll aza*
 54. *Chlorophyll abz*
 55. *Chlorophyll aca*
 56. *Chlorophyll acb*
 57. *Chlorophyll acc*
 58. *Chlorophyll acd*
 59. *Chlorophyll ace*
 60. *Chlorophyll acf*
 61. *Chlorophyll acg*
 62. *Chlorophyll ach*
 63. *Chlorophyll aci*
 64. *Chlorophyll acj*
 65. *Chlorophyll ack*
 66. *Chlorophyll acl*
 67. *Chlorophyll acm*
 68. *Chlorophyll acn*
 69. *Chlorophyll aco*
 70. *Chlorophyll acp*
 71. *Chlorophyll acq*
 72. *Chlorophyll acr*
 73. *Chlorophyll acs*
 74. *Chlorophyll act*
 75. *Chlorophyll acu*
 76. *Chlorophyll acv*
 77. *Chlorophyll acw*
 78. *Chlorophyll acx*
 79. *Chlorophyll acy*
 80. *Chlorophyll acz*
 81. *Chlorophyll azaa*
 82. *Chlorophyll abzab*
 83. *Chlorophyll acaab*
 84. *Chlorophyll acbab*
 85. *Chlorophyll accab*
 86. *Chlorophyll acdab*
 87. *Chlorophyll aceab*
 88. *Chlorophyll acfab*
 89. *Chlorophyll acgab*
 90. *Chlorophyll achab*
 91. *Chlorophyll aciab*
 92. *Chlorophyll acjab*
 93. *Chlorophyll ackab*
 94. *Chlorophyll aclab*
 95. *Chlorophyll acmab*
 96. *Chlorophyll acnab*
 97. *Chlorophyll acoab*
 98. *Chlorophyll acpab*
 99. *Chlorophyll acqab*
 100. *Chlorophyll acrab*
 101. *Chlorophyll acsab*
 102. *Chlorophyll actab*
 103. *Chlorophyll acub*
 104. *Chlorophyll acvab*
 105. *Chlorophyll acwab*
 106. *Chlorophyll acxab*
 107. *Chlorophyll acyab*
 108. *Chlorophyll aczab*
 109. *Chlorophyll azaab*
 110. *Chlorophyll abzab*
 111. *Chlorophyll acaab*
 112. *Chlorophyll acbab*
 113. *Chlorophyll accab*
 114. *Chlorophyll acdab*
 115. *Chlorophyll aceab*
 116. *Chlorophyll acfab*
 117. *Chlorophyll acgab*
 118. *Chlorophyll achab*
 119. *Chlorophyll aciab*
 120. *Chlorophyll acjab*
 121. *Chlorophyll ackab*
 122. *Chlorophyll aclab*
 123. *Chlorophyll acmab*
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 126. *Chlorophyll acpab*
 127. *Chlorophyll acqab*
 128. *Chlorophyll acrab*
 129. *Chlorophyll acsab*
 130. *Chlorophyll actab*
 131. *Chlorophyll acub*
 132. *Chlorophyll acvab*
 133. *Chlorophyll acwab*
 134. *Chlorophyll acxab*
 135. *Chlorophyll acyab*
 136. *Chlorophyll aczab*
 137. *Chlorophyll azaab*
 138. *Chlorophyll abzab*
 139. *Chlorophyll acaab*
 140. *Chlorophyll acbab*
 141. *Chlorophyll accab*
 142. *Chlorophyll acdab*
 143. *Chlorophyll aceab*
 144. *Chlorophyll acfab*
 145. *Chlorophyll acgab*
 146. *Chlorophyll achab*
 147. *Chlorophyll aciab*
 148. *Chlorophyll acjab*
 149. *Chlorophyll ackab*
 150. *Chlorophyll aclab*
 151. *Chlorophyll acmab*
 152. *Chlorophyll acnab*
 153. *Chlorophyll acoab*
 154. *Chlorophyll acpab*
 155. *Chlorophyll acqab*
 156. *Chlorophyll acrab*
 157. *Chlorophyll acsab*
 158. *Chlorophyll actab*
 159. *Chlorophyll acub*
 160. *Chlorophyll acvab*
 161. *Chlorophyll acwab*
 162. *Chlorophyll acxab*
 163. *Chlorophyll acyab*
 164. *Chlorophyll aczab*
 165. *Chlorophyll azaab*
 166. *Chlorophyll abzab*
 167. *Chlorophyll acaab*
 168. *Chlorophyll acbab*
 169. *Chlorophyll accab*
 170. *Chlorophyll acdab*
 171. *Chlorophyll aceab*
 172. *Chlorophyll acfab*
 173. *Chlorophyll acgab*
 174. *Chlorophyll achab*
 175. *Chlorophyll aciab*
 176. *Chlorophyll acjab*
 177. *Chlorophyll ackab*
 178. *Chlorophyll aclab*
 179. *Chlorophyll acmab*
 180. *Chlorophyll acnab*
 181. *Chlorophyll acoab*
 182. *Chlorophyll acpab*
 183. *Chlorophyll acqab*
 184. *Chlorophyll acrab*
 185. *Chlorophyll acsab*
 186. *Chlorophyll actab*
 187. *Chlorophyll acub*
 188. *Chlorophyll acvab*
 189. *Chlorophyll acwab*
 190. *Chlorophyll acxab*
 191. *Chlorophyll acyab*
 192. *Chlorophyll aczab*
 193. *Chlorophyll azaab*
 194. *Chlorophyll abzab*
 195. *Chlorophyll acaab*
 196. *Chlorophyll acbab*
 197. *Chlorophyll accab*
 198. *Chlorophyll acdab*
 199. *Chlorophyll aceab*
 200. *Chlorophyll acfab*
 201. *Chlorophyll ac*

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Page 35 of 44

Group No.: 1398186 Sample Nos.: 7098174-85 Cooler No.: C02851 25707
Acct: 07032 SF: 126083 SCR No.: 140906 Container No.: 1-3
Cooler Temperature upon receipt: 0.5-0.9 °C

[illegible]

For Lancaster Laboratories Use Only

Group No.: 1398186 Sample Nos.: 7098174-85 Cooler No.: 140906 Container No.: 1-3
Cooler Temperature upon receipt: 0.5-0.9 °C

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Cooler Temperature upon receipt: 65-0.9 °C

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation LogClient/Project: Dupon +Shipping Container Sealed: YES NODate of Receipt: 6.19.13Custody Seal Present *: YES NOTime of Receipt: 905* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	D+131	0.9	TB	WI	X	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	0.5	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

COC 25915 TO 061813SD = TB061813SD
R10613-2013SW Rec 6 vials 3 (ms) 3 (msd)
not on COC EB061813SW
COC 25665 ~~EB061813SW~~ = EB0613SW
~~COC 25659~~ Did not Rec ^{BUB 2299 ③ 6.19.13} Chloride Sulfate bottle
BUB 2299 6.19.13 ③

Unpacker Signature/Emp#:

Bunny 2299Date/Time: 6.19.13 1036

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 02, 2013

Project: MTG - REM INVESTIGATION SEDIMENT

Submittal Date: 06/20/2013
Group Number: 1398466
PO Number: LBIO-66380
State of Sample Origin: MI

Client Sample Description

RI0613-2013SED-01 Sediment
RI0613-2013SED-02 Sediment
RI0613-2013SED-03 Sediment
RI0613-2013SED-08 Sediment
RI0613-2013SED-09 Sediment
EQ-061913-SD Blank Water
TB-061913-SD Blank Water

Lancaster Labs (LL)

7099665
7099666
7099667
7099668
7099669
7099670
7099671

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: RI0613-2013SED-01 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099665
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	9	25	1
10237	Benzene	71-43-2	N.D.	0.6	6	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1
10237	Chloroform	67-66-3	N.D.	1	6	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1
10237	Freon 113	76-13-1	N.D.	2	12	1
10237	Methylene Chloride	75-09-2	N.D.	2	6	1
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1
10237	Toluene	108-88-3	N.D.	1	6	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1
10237	Trichloroethene	79-01-6	N.D.	1	6	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	1
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	830 J	730	1,200	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0913	0.601	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.103	0.240	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.407 J	0.101	0.481	2
06135	Lead	7439-92-1	1.16	0.0192	0.240	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0114	0.114	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	6.1	12.1	1
07332	Fluoride	16984-48-8	N.D.	0.97	1.2	1
07338	Sulfate	14808-79-8	8.8 J	6.1	18.2	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	123	368	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-01 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099665
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 10:15 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	521	1,560	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	18.4	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 06:38	Stephanie A Selis	1
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317131476	06/20/2013 13:00	Larry E Bevins	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317131476	06/20/2013 13:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317131476	06/20/2013 12:59	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317131476	06/20/2013 12:59	Larry E Bevins	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:00	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131775708004	06/28/2013 00:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131775708004A	06/28/2013 05:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131775708004A	06/28/2013 05:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131775708004A	06/28/2013 05:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131775711005	06/30/2013 16:49	Parker D Lindstrom	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131775708004	06/27/2013 09:20	Denise K Connors	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131775711005	06/27/2013 14:10	Denise K Connors	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 08:18	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 08:18	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 08:18	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13171049531B	06/21/2013 00:55	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820006A	06/21/2013 20:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-02 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099666
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 10:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	24	1.01
10237	Benzene	71-43-2	N.D.	0.6	6	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	1.01
10237	Chloroform	67-66-3	N.D.	1	6	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	1.01
10237	Freon 113	76-13-1	N.D.	2	12	1.01
10237	Methylene Chloride	75-09-2	N.D.	2	6	1.01
10237	Tetrachloroethene	127-18-4	N.D.	1	6	1.01
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	1.01
10237	Toluene	108-88-3	N.D.	1	6	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	1.01
10237	Trichloroethene	79-01-6	N.D.	1	6	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	1.01
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	800 J	700	1,200	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0861	0.566	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0974	0.227	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.348 J	0.0951	0.453	2
06135	Lead	7439-92-1	0.503	0.0181	0.227	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0117	0.117	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.9	11.7	1
07332	Fluoride	16984-48-8	N.D.	0.94	1.2	1
07338	Sulfate	14808-79-8	8.0 J	5.9	17.6	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	118	353	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-02 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099666
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 10:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	501	1,500	25
	Reporting limits were raised due to interference from the sample matrix.					
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	15.1	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 07:00	Stephanie A Selis	1.01
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317131476	06/20/2013 13:03	Larry E Bevins	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317131476	06/20/2013 13:04	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317131476	06/20/2013 13:02	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317131476	06/20/2013 13:02	Larry E Bevins	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:09	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131775708004	06/28/2013 00:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131775708004A	06/28/2013 05:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131775708004A	06/28/2013 05:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131775708004A	06/28/2013 05:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131775711005	06/30/2013 16:51	Parker D Lindstrom	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131775708004	06/27/2013 09:20	Denise K Connors	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131775711005	06/27/2013 14:10	Denise K Connors	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 08:32	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 08:32	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 08:32	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13171049531B	06/21/2013 01:02	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820006A	06/21/2013 20:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-03 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099667
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 11:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	23	0.97
10237	Benzene	71-43-2	N.D.	0.6	6	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	6	0.97
10237	Chloroform	67-66-3	N.D.	1	6	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	6	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	6	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	6	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	6	0.97
10237	Freon 113	76-13-1	N.D.	2	12	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	6	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	6	0.97
10237	Tetrahydrofuran	109-99-9	N.D.	5	6	0.97
10237	Toluene	108-88-3	N.D.	1	6	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	6	0.97
10237	Trichloroethene	79-01-6	N.D.	1	6	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	6	0.97
A targeted library search was performed yielding the following results: 1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane are non-detect.						
Aldehydes & Ketones	SW-846 8315A		ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	700	1,200	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0876	0.577	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.0992	0.231	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	0.391 J	0.0969	0.461	2
06135	Lead	7439-92-1	0.651	0.0184	0.231	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0113	0.113	1
Wet Chemistry	EPA 300.0		mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	5.9	11.8	1
07332	Fluoride	16984-48-8	N.D.	0.94	1.2	1
07338	Sulfate	14808-79-8	N.D.	5.9	17.7	1
	Lloyd Kahn modified		mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	N.D.	119	356	1
	SM 4500-NH3 B/C modified-1997		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-03 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099667
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 11:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	505	1,510	25
Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	15.8	0.50	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 08:10	Stephanie A Selis	0.97
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317131476	06/20/2013 13:06	Larry E Bevins	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317131476	06/20/2013 13:07	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317131476	06/20/2013 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317131476	06/20/2013 13:06	Larry E Bevins	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:17	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131775708004	06/28/2013 00:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131775708004A	06/28/2013 05:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131775708004A	06/28/2013 05:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131775708004A	06/28/2013 05:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131775711005	06/30/2013 16:57	Parker D Lindstrom	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131775708004	06/27/2013 09:20	Denise K Connors	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131775711005	06/27/2013 14:10	Denise K Connors	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 08:45	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 08:45	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 08:45	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13171049531B	06/21/2013 01:10	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13172820006A	06/21/2013 20:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-08 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099668
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	150	33	95	1.44
10237	Benzene	71-43-2	N.D.	2	24	1.44
10237	Carbon Tetrachloride	56-23-5	N.D.	5	24	1.44
10237	Chloroform	67-66-3	N.D.	5	24	1.44
10237	Dichlorodifluoromethane	75-71-8	N.D.	10	24	1.44
10237	1,1-Dichloroethane	75-34-3	N.D.	5	24	1.44
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	5	24	1.44
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	5	24	1.44
10237	Freon 113	76-13-1	N.D.	10	48	1.44
10237	Methylene Chloride	75-09-2	N.D.	10	24	1.44
10237	Tetrachloroethene	127-18-4	N.D.	5	24	1.44
10237	Tetrahydrofuran	109-99-9	N.D.	19	24	1.44
10237	Toluene	108-88-3	N.D.	5	24	1.44
10237	1,1,1-Trichloroethane	71-55-6	N.D.	5	24	1.44
10237	Trichloroethene	79-01-6	N.D.	5	24	1.44
10237	Trichlorofluoromethane	75-69-4	N.D.	10	24	1.44

A targeted library search was performed yielding the following results:
1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane
are non-detect.

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken:
The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

Aldehydes & Ketones		SW-846 8315A	ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	N.D.	20,000	33,000	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
Reporting limits were raised due to interference from the sample matrix.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.422 J	0.247	1.62	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	N.D.	0.279	0.649	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	1.91	0.273	1.30	2
06135	Lead	7439-92-1	12.3	0.0519	0.649	2

		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.109 J	0.0326	0.326	1

Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	N.D.	16.6	33.1	1
07332	Fluoride	16984-48-8	N.D.	2.6	3.3	1
07338	Sulfate	14808-79-8	67.6	16.6	49.7	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-08 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099668
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		Lloyd Kahn modified	mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	48,700	2,970	8,920	1
		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	N.D.	1,410	4,220	25
	Reporting limits were raised due to interference from the sample matrix.					
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	69.8	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 08:33	Stephanie A Selis	1.44
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317131476	06/20/2013 13:10	Larry E Bevins	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317131476	06/20/2013 13:14	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317131476	06/20/2013 13:09	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317131476	06/20/2013 13:10	Larry E Bevins	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:26	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131775708004	06/28/2013 00:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131775708004A	06/28/2013 05:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131775708004A	06/28/2013 05:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131775708004A	06/28/2013 05:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131775711005	06/30/2013 16:59	Parker D Lindstrom	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131775708004	06/27/2013 09:20	Denise K Connors	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131775711005	06/27/2013 14:10	Denise K Connors	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 08:59	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 08:59	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 08:59	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13171049531B	06/21/2013 01:39	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-08 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099668
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 09:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	25
00111	Moisture	SM 2540 G-1997	1	13176820003A	06/25/2013 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-09 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099669
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE9

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	400	58	170	1.72
10237	Benzene	71-43-2	N.D.	4	42	1.72
10237	Carbon Tetrachloride	56-23-5	N.D.	8	42	1.72
10237	Chloroform	67-66-3	N.D.	8	42	1.72
10237	Dichlorodifluoromethane	75-71-8	N.D.	17	42	1.72
10237	1,1-Dichloroethane	75-34-3	N.D.	8	42	1.72
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	8	42	1.72
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	8	42	1.72
10237	Freon 113	76-13-1	N.D.	17	83	1.72
10237	Methylene Chloride	75-09-2	N.D.	17	42	1.72
10237	Tetrachloroethene	127-18-4	9 J	8	42	1.72
10237	Tetrahydrofuran	109-99-9	N.D.	33	42	1.72
10237	Toluene	108-88-3	N.D.	8	42	1.72
10237	1,1,1-Trichloroethane	71-55-6	N.D.	8	42	1.72
10237	Trichloroethene	79-01-6	N.D.	8	42	1.72
10237	Trichlorofluoromethane	75-69-4	N.D.	17	42	1.72

A targeted library search was performed yielding the following results:
1,1-dichloro-1,2,2,2-tetrafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane
are non-detect.

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken:
The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

Aldehydes & Ketones	SW-846 8315A	ug/kg	ug/kg	ug/kg	
13031	Acetaldehyde	75-07-0	3,000 J	2,900	4,800
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					

Metals	SW-846 6010B	mg/kg	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.696 J	0.360	2.37
	SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.509 J	0.407	0.947
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.86	0.398	1.89
06135	Lead	7439-92-1	34.9	0.0758	0.947

	SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.189 J	0.0447	0.447

Wet Chemistry	EPA 300.0	mg/kg	mg/kg	mg/kg	
07333	Chloride	16887-00-6	26.3 J	24.0	48.0
07332	Fluoride	16984-48-8	3.9 J	3.8	4.8
07338	Sulfate	14808-79-8	405	24.0	72.0

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-09 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099669
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE9

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		Lloyd Kahn modified	mg/kg	mg/kg	mg/kg	
00383	Total Organic Carbon	n.a.	68,200	4,780	14,300	1
		SM 4500-NH3 B/C modified-1997	mg/kg	mg/kg	mg/kg	
00573	Ammonia	7664-41-7	487 J	246	739	3
	Reporting limits were raised due to interference from the sample matrix.					
Wet Chemistry		SM 2540 G-1997	%	%	%	
00111	Moisture	n.a.	79.3	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	GC/MS Volatiles	SW-846 8260B	1	X131732AA	06/23/2013 08:56	Stephanie A Selis	1.72
08389	GC/MS - LL Encore Prep	SW-846 5035A	1	201317131476	06/20/2013 13:17	Larry E Bevins	n.a.
08389	GC/MS - LL Encore Prep	SW-846 5035A	2	201317131476	06/20/2013 13:16	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	1	201317131476	06/20/2013 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035A	2	201317131476	06/20/2013 13:16	Larry E Bevins	n.a.
13031	Acetaldehyde	SW-846 8315A	1	131770012A	07/01/2013 20:34	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	131770012A	06/27/2013 10:15	Denise L Trimby	1
06949	Cadmium	SW-846 6010B	1	131775708004	06/28/2013 00:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	131775708004A	06/28/2013 05:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	131775708004A	06/28/2013 05:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	131775708004A	06/28/2013 05:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	131775711005	06/30/2013 17:01	Parker D Lindstrom	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	131775708004	06/27/2013 09:20	Denise K Connors	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	131775711005	06/27/2013 14:10	Denise K Connors	1
07333	Chloride	EPA 300.0	1	13177177201B	06/27/2013 09:13	Clinton M Wilson	1
07332	Fluoride	EPA 300.0	1	13177177201B	06/27/2013 09:13	Clinton M Wilson	1
07338	Sulfate	EPA 300.0	1	13177177201B	06/27/2013 09:13	Clinton M Wilson	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	13171049531B	06/21/2013 02:14	James S Mathiot	1
01352	Deionized Water Extraction	EPA 300.0	1	13177177201B	06/26/2013 08:00	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result

Sample Description: RI0613-2013SED-09 Sediment
REM INVESTIGATION SED 6/13

LL Sample # SW 7099669
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 08:45 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSE9

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00573	Ammonia	SM 4500-NH3 B/C modified-1997	1	13177057301A	06/26/2013 16:00	Luz M Groff	3
00111	Moisture	SM 2540 G-1997	1	13176820003A	06/25/2013 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: EQ-061913-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7099670
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSEE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
Aldehydes & Ketones	SW-846 8315A		ug/l	ug/l	ug/l	
13022	Acetaldehyde	75-07-0	24 J	20	60	1
Metals	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
	SW-846 6020		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	N.D.	0.00034	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00042	0.0020	1
06035	Lead	7439-92-1	N.D.	0.000085	0.0010	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	0.27 J	0.20	0.40	1
01504	Fluoride	16984-48-8	0.27	0.080	0.10	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 5310 C-2000		mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1.0	1
	SM 4500-NH3 B/C modified-1997		mg/l	mg/l	mg/l	
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	0.60	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EQ-061913-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7099670
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSEE

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 12:48	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 12:48	Angela D Sneeringer	1
13022	Acetaldehyde	SW-846 8315A	1	131710014A	06/21/2013 22:58	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	131710014A	06/21/2013 10:45	Denise L Trimby	1
07049	Cadmium	SW-846 6010B	1	131745705002	06/26/2013 23:01	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	131766050003A	06/28/2013 10:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	131766050003A	06/28/2013 10:03	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131766050003A	06/28/2013 10:03	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	131725713002	06/23/2013 08:20	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	131745705002	06/24/2013 15:11	Kevin C Piaskowski	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	131766050003	06/27/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131725713002	06/22/2013 09:35	Damary Valentin	1
00224	Chloride	EPA 300.0	1	13179655901C	06/29/2013 06:33	Christopher D Meeks	1
01504	Fluoride	EPA 300.0	1	13179655901C	06/29/2013 06:33	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13179655901C	06/29/2013 06:33	Christopher D Meeks	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13177237301A	06/25/2013 13:16	Joseph E McKenzie	1
00221	Ammonia Nitrogen	SM 4500-NH3 B/C modified-1997	1	13176022101A	06/25/2013 15:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-061913-SD Blank Water
REM INVESTIGATION SED 6/13

LL Sample # WW 7099671
LL Group # 1398466
Account # 07032

Project Name: MTG - REM INVESTIGATION SEDIMENT

Collected: 06/19/2013 14:30 by BR

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/20/2013 09:00

Reported: 07/02/2013 16:47

MTSET

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	Benzene	71-43-2	N.D.	0.5	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
10335	Chloroform	67-66-3	N.D.	0.8	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
10335	Tetrahydrofuran	109-99-9	N.D.	4	10	1
10335	Toluene	108-88-3	N.D.	0.7	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
10335	Trichloroethene	79-01-6	N.D.	1	5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	GC/MS Volatiles	SW-846 8260B	1	Y131791AA	06/28/2013 13:09	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131791AA	06/28/2013 13:09	Angela D Sneeringer	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/02/13 at 04:47 PM

Group Number: 1398466

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: X131732AA	Sample number(s): 7099665-7099669								
Acetone	N.D.	7.	20	ug/kg	85		18-197		
Benzene	N.D.	0.5	5	ug/kg	94		80-120		
Carbon Tetrachloride	N.D.	1.	5	ug/kg	99		69-122		
Chloroform	N.D.	1.	5	ug/kg	102		80-120		
Dichlorodifluoromethane	N.D.	2.	5	ug/kg	83		32-120		
1,1-Dichloroethane	N.D.	1.	5	ug/kg	91		80-120		
cis-1,2-Dichloroethene	N.D.	1.	5	ug/kg	95		80-120		
trans-1,2-Dichloroethene	N.D.	1.	5	ug/kg	99		79-120		
Freon 113	N.D.	2.	10	ug/kg	91		64-137		
Methylene Chloride	N.D.	2.	5	ug/kg	97		76-124		
Tetrachloroethene	N.D.	1.	5	ug/kg	89		78-126		
Tetrahydrofuran	N.D.	4.	5	ug/kg	90		71-132		
Toluene	N.D.	1.	5	ug/kg	92		80-120		
1,1,1-Trichloroethane	N.D.	1.	5	ug/kg	92		71-125		
Trichloroethene	N.D.	1.	5	ug/kg	99		80-120		
Trichlorofluoromethane	N.D.	2.	5	ug/kg	104		58-133		
Batch number: Y131791AA	Sample number(s): 7099670-7099671								
Acetone	N.D.	6.	20	ug/l	81	78	35-181	4	30
Benzene	N.D.	0.5	5	ug/l	100	95	77-121	5	30
Carbon Tetrachloride	N.D.	1.	5	ug/l	100	97	65-137	3	30
Chloroform	N.D.	0.8	5	ug/l	100	96	77-122	4	30
Dichlorodifluoromethane	N.D.	2.	5	ug/l	84	78	35-122	7	30
1,1-Dichloroethane	N.D.	1.	5	ug/l	103	98	79-120	5	30
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	99	94	80-120	5	30
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	106	101	80-120	4	30
Freon 113	N.D.	2.	10	ug/l	97	93	69-128	4	30
Methylene Chloride	N.D.	2.	5	ug/l	105	102	84-118	4	30
Tetrachloroethene	N.D.	0.8	5	ug/l	104	98	79-120	6	30
Tetrahydrofuran	N.D.	4.	10	ug/l	100	98	52-156	3	30
Toluene	N.D.	0.7	5	ug/l	104	98	79-120	6	30
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	90	87	66-126	4	30
Trichloroethene	N.D.	1.	5	ug/l	101	97	80-120	4	30
Trichlorofluoromethane	N.D.	2.	5	ug/l	86	81	65-130	7	30
Batch number: 131710014A	Sample number(s): 7099670								
Acetaldehyde	N.D.	20.	60	ug/l	71		56-123		
Batch number: 131770012A	Sample number(s): 7099665-7099669								
Acetaldehyde	N.D.	600.	1,000	ug/kg	70*		80-120		
Batch number: 131725713002	Sample number(s): 7099670								
Mercury	N.D.	0.00007	0.00020	mg/l	105		80-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398466

Reported: 07/02/13 at 04:47 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131745705002 Cadmium	Sample number(s): 7099670 N.D.	0.00076	0.0050	mg/l	101		90-112		
Batch number: 131766050003A Antimony	Sample number(s): 7099670 N.D.	0.00034	0.0010	mg/l	109		80-120		
Arsenic	N.D.	0.00042	0.0020	mg/l	104		80-120		
Lead	N.D.	0.00008	0.0010	mg/l	102		90-115		
		5							
Batch number: 131775708004 Cadmium	Sample number(s): 7099665-7099669 N.D.	0.0760	0.500	mg/kg	100		80-120		
Batch number: 131775708004A Antimony	Sample number(s): 7099665-7099669 N.D.	0.0860	0.200	mg/kg	110		80-120		
Arsenic	N.D.	0.0840	0.400	mg/kg	118		80-120		
Lead	N.D.	0.0160	0.200	mg/kg	104		80-120		
Batch number: 131775711005 Mercury	Sample number(s): 7099665-7099669 N.D.	0.0100	0.100	mg/kg	96		80-120		
Batch number: 13171049531B Total Organic Carbon	Sample number(s): 7099665-7099669 N.D.	100.	300	mg/kg	67		47-143		
Batch number: 13177177201B Chloride	Sample number(s): 7099665-7099669 N.D.	5.0	10.0	mg/kg	104		90-110		
Fluoride	N.D.	0.80	1.0	mg/kg	97		90-110		
Sulfate	N.D.	5.0	15.0	mg/kg	102		90-110		
Batch number: 13177237301A Total Organic Carbon	Sample number(s): 7099670 N.D.	0.50	1.0	mg/l	104	106	91-113	3	20
Batch number: 13179655901C Chloride	Sample number(s): 7099670 N.D.	0.20	0.40	mg/l	98	101	90-110	2	20
Fluoride	N.D.	0.080	0.10	mg/l	98	102	90-110	4	20
Sulfate	N.D.	0.30	1.0	mg/l	102	102	90-110	0	20
Batch number: 13176022101A Ammonia Nitrogen	Sample number(s): 7099670 N.D.	0.20	0.60	mg/l	95	94	85-105	1	5
Batch number: 13177057301A Ammonia	Sample number(s): 7099665-7099669 N.D.	17.0	51.0	mg/kg	94		89-101		
Batch number: 13172820006A Moisture	Sample number(s): 7099665-7099667				100		99-101		
Batch number: 13176820003A Moisture	Sample number(s): 7099668-7099669				100		99-101		

Sample Matrix Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398466

Reported: 07/02/13 at 04:47 PM

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: X131732AA	Sample number(s): 7099665-7099669 UNSPK: P098177								
Acetone	82	78	31-195	5	30				
Benzene	97	95	55-143	3	30				
Carbon Tetrachloride	112	107	45-153	5	30				
Chloroform	106	104	61-142	2	30				
Dichlorodifluoromethane	104	100	26-151	5	30				
1,1-Dichloroethane	97	94	63-142	4	30				
cis-1,2-Dichloroethene	98	95	49-153	3	30				
trans-1,2-Dichloroethene	103	101	51-153	2	30				
Freon 113	111	105	56-156	7	30				
Methylene Chloride	100	99	49-160	1	30				
Tetrachloroethene	91	88	42-149	4	30				
Tetrahydrofuran	94	101	53-163	7	30				
Toluene	94	90	50-146	4	30				
1,1,1-Trichloroethane	100	95	43-150	6	30				
Trichloroethene	103	101	53-144	3	30				
Trichlorofluoromethane	122	113	47-163	8	30				
Batch number: 131710014A	Sample number(s): 7099670 UNSPK: P098192								
Acetaldehyde	86	84	79-115	2	30				
Batch number: 131770012A	Sample number(s): 7099665-7099669 UNSPK: P102826								
Acetaldehyde	73*	77*	80-120	5	50				
Batch number: 131725713002	Sample number(s): 7099670 UNSPK: P098413 BKG: P098413								
Mercury	103	102	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131745705002	Sample number(s): 7099670 UNSPK: P098192 BKG: P098192								
Cadmium	103	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Batch number: 131766050003A	Sample number(s): 7099670 UNSPK: P098192 BKG: P098192								
Antimony	115	102	75-125	12	20	N.D.	N.D.	0 (1)	20
Arsenic	106	100	75-125	5	20	0.0014 J	0.0012 J	13 (1)	20
Lead	103	104	83-120	1	20	0.0013	0.0011	16 (1)	20
Batch number: 131775708004	Sample number(s): 7099665-7099669 UNSPK: P103714 BKG: P103714								
Cadmium	90	92	75-125	4	20	0.131 J	0.145 J	10 (1)	20
Batch number: 131775708004A	Sample number(s): 7099665-7099669 UNSPK: P103714 BKG: P103714								
Antimony	57*	56*	75-125	0	20	0.110 J	0.0939 J	16 (1)	20
Arsenic	186*	178*	75-125	1	20	3.11	3.63	15	20
Lead	239 (2)	261 (2)	75-125	3	20	20.1	18.8	7	20
Batch number: 131775711005	Sample number(s): 7099665-7099669 UNSPK: P107912 BKG: P107912								
Mercury	798 (2)	754 (2)	80-120	4	20	0.801	2.22	94* (1)	20
Batch number: 13171049531B	Sample number(s): 7099665-7099669 UNSPK: P099142 BKG: P099142								
Total Organic Carbon	79		22-155			24,600	23,300	6	15
Batch number: 13177177201B	Sample number(s): 7099665-7099669 UNSPK: P098181 BKG: P098181								
Chloride	115*		90-110			N.D.	N.D.	0 (1)	20
Fluoride	97		90-110			N.D.	N.D.	0 (1)	20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398466

Reported: 07/02/13 at 04:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Sulfate	90		90-110			62.0	59.2	5 (1)	20
Batch number: 13176022101A	Sample number(s): 7099670 BKG: P098900								
Ammonia Nitrogen						24.6	24.6	0	6
Batch number: 13177057301A	Sample number(s): 7099665-7099669 UNSPK: P102826 BKG: P102826								
Ammonia	89	90	78-109	1	5	N.D.	N.D.	0 (1)	10
Batch number: 13172820006A	Sample number(s): 7099665-7099667 BKG: 7099666								
Moisture						15.1	14.9	2	13
Batch number: 13176820003A	Sample number(s): 7099668-7099669 BKG: P099045								
Moisture						21.3	18.4	15*	13

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL Volatiles

Batch number: X131732AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7099665	106	100	95	102
7099666	106	102	94	99
7099667	109	101	93	100
7099668	111	95	115	73
7099669	112	98	117	72
Blank	103	97	95	101
LCS	102	97	97	103
MS	103	99	97	105
MSD	104	97	97	103

Limits: 50-141 54-135 52-141 50-131

Analysis Name: GC/MS Volatiles

Batch number: Y131791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7099670	87	89	94	89
7099671	87	92	94	90
Blank	87	89	94	90
LCS	87	89	95	91
LCSD	87	92	94	91

Limits: 80-116 77-113 80-113 78-113

Analysis Name: Formaldehyde

Batch number: 131710014A

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1398466

Reported: 07/02/13 at 04:47 PM

Surrogate Quality Control

Butyraldehyde

7099670	51
Blank	63
LCS	75
MS	94
MSD	93

Limits: 45-145

Analysis Name: Formaldehyde

Batch number: 131770012A

Butyraldehyde

7099665	113
7099666	115
7099667	105
7099668	102
7099669	81
Blank	97
LCS	82
MS	98
MSD	101

Limits: 64-126

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Comments:
Metals = Sb, As, P'b (6020);
Cd (6010); Hg

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

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1. *Chlorophyll a* (Chl *a*)

os.: 7099665-711

Container No.: 2

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Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

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Container No.: 8

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation LogClient/Project: Dupont MontagueDate of Receipt: 6/20/13Time of Receipt: 0900Source Code: 50-1Shipping Container Sealed: YES NOCustody Seal Present *: YES NO* Custody seal was intact unless otherwise noted in the
discrepancy sectionPackage: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	0.4	TB	WI	Y	B	
2	↓	0.7	↓	↓	↓	↓	
3	↓	0.7	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: CCohle 3647Date/Time: 6/20/13 1010

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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URS #18984840
Dupont Montague Perm Invest SW 6/13
LABORATORY TESTING DATA SUMMARY

BORING NO.	SAMPLE NO.	DEPTH (ft)	IDENTIFICATION TESTS			REMARKS
			WATER CONTENT (%)	USCS SYMB. (1)	SIEVE MINUS NO. 200 (%)	
	SW-01		24.7	SP	0.2	
	SW-02		28.1	SP	0.2	
	SW-03		24.2	SP	0.3	
	SW-04		22.0	SP	0.1	
	SW-05		22.5	SP	0.1	
	SW-06		27.8	SP	0.1	
	SW-07		21.4	SP	0.2	
	SW-08		191.3	PT	6.6	
	SW-09		410.6	PT	8.1	
	SW-10		31.0	SP	1.6	
	SW-11		24.3	SP	0.9	

Note: (1) USCS symbol based on visual observation and Sieve reported.







