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May 24, 2017

Ms. Joyce Munie, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Submittal of Corrected Information
Groundwater Monitoring Report – 2nd Quarter 2013
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R

Dear Ms. Munie:

On behalf of Shell Oil Products US (SOPUS), AECOM Technical Services, Inc. (AECOM) hereby submits the enclosed addendum to the above-referenced report (the Report).

AECOM collects a variety of samples for SOPUS as part of the work performed in connection with the above-referenced site including the samples referenced and utilized in the Report. AECOM contracts with independent laboratories to analyze the samples collected. As noted in SOPUS' initial disclosure letter and our subsequent communications, Accutest Laboratories (Accutest) issued revised laboratory analyses in response to an internal evaluation performed of its process. Please note, the majority of the corrected analyses were issued only to include a revised footnote and the numeric value of the analytical results reported remained unchanged. If any numeric values of analytical results presented in the Report were updated by Accutest, the updated results are presented as part of the information included in the Report addendum. Moreover, based upon our evaluation of the Report and the revised information received from Accutest, the conclusion(s) of the Report as originally issued are unaffected.

The information provided within and the format of this addendum is as discussed during our meeting with IEPA on March 23, 2017. This addendum includes the following information:

- IEPA LPC form
- Data Review Addendum Table (summarizing changed information)
- Revised analytical results table
- Revised laboratory reports (on CD)

AECOM

If you have any questions during your review, please contact Kevin Dyer, SOPUS Senior Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@aecom.com (314/743-4108).

Sincerely,

AECOM, on behalf of Shell Oil Products US

Robert Billman, PG
Senior Project Manager

Robert E. Mooshegian, CHMM
Senior Program Manager

Enclosures: 2 copies

cc: Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Shannon Haney, Greensfelder, Hemker & Gale P.C.
Repositories – Village Hall, Roxana Public Library, website
Project File

Illinois Environmental Protection Agency

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RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

Groundwater	Leachate
____ Quarterly - Enter: 1, 2, 3, or 4	____ Quarterly - Enter: 1, 2, 3, or 4
☐ Semi-Annual	☐ Semi-Annual
☐ Annual	☐ Annual
☐ Biennial	☐ Biennial

☐ Groundwater Data (without LPC-160 Forms)

____ Quarterly - Enter: 1, 2, 3, or 4 ☐ Annual ☐ Semi-Annual ☐ Biennial

☐ Well Construction Information

- ☐ Well Construction Forms, Boring Logs and/or Abandonment Forms
- ☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination (35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater (35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☑ Other (identify)

1Q13, 2Q13, 3Q13, and 4Q13 Groundwater Sampling Report Addenda - Addenda being issued due to revised laboratory reports.

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	MW6A-ROX-040313	MC19576-1	04/03/2013	Acrolein	ND	ND		ug/l	Ana: Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW6B-ROX-040313	MC19576-2	04/03/2013	Acrolein	ND	ND		ug/l	Ana: Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW6C-ROX-040313	MC19576-3	04/03/2013	Acrolein	ND	ND		ug/l	Ana: Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW6D-ROX-040313	MC19576-4	04/03/2013	Acrolein	ND	ND		ug/l	Ana: Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW24-ROX-040513	MC19612-3	04/05/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW18-ROX-040513	MC19613-1	04/05/2013	Acetone	215	215		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260B	MW16-ROX-040813	MC19670-1	04/08/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW16-ROX-040813	MC19670-1	04/08/2013	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW16-ROX-040813	MC19670-1	04/08/2013	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW16-ROX-040813	MC19670-1	04/08/2013	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	MW3-ROX-040813	MC19670-3	04/08/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW3-ROX-040813	MC19670-3	04/08/2013	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW3-ROX-040813	MC19670-3	04/08/2013	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW3-ROX-040813	MC19670-3	04/08/2013	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW12-ROX-040813	MC19670-4	04/08/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW12-ROX-040813	MC19670-4	04/08/2013	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW12-ROX-040813	MC19670-4	04/08/2013	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW12-ROX-040813	MC19670-4	04/08/2013	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW11-ROX-040813	MC19670-5	04/08/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW11-ROX-040813	MC19670-5	04/08/2013	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	MW11-ROX-040813	MC19670-5	04/08/2013	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW11-ROX-040813	MC19670-5	04/08/2013	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW10-ROX-040913	MC19699-1	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW9-ROX-040913	MC19699-3	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW1-ROX-040913	MC19699-4	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW2-ROX-040913	MC19699-7	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW5-ROX-040913	MC19699-8	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW4-ROX-040913	MC19699-9	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW4-ROX-040913-DUP	MC19699-10	04/09/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	ROST4PZC-ROX-041013	MC19724-1	04/10/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW7-ROX-041013	MC19724-2	04/10/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW7-ROX-041013-DUP	MC19724-3	04/10/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW8-ROX-041013	MC19724-4	04/10/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P54-ROX-041013	MC19724-5	04/10/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P93A-ROX-041113	MC19816-3	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P93A-ROX-041113-DUP	MC19816-4	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P93B-ROX-041113	MC19816-5	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P93D-ROX-041113	MC19816-6	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P66-ROX-041113	MC19817-1	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	MW14-ROX-041113	MC19817-3	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P74-ROX-041113	MC19817-6	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P57-ROX-041113	MC19817-7	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P58-ROX-041113	MC19817-8	04/11/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW13-ROX-041213	MC19830-1	04/12/2013	Acetone	31.9	31.9		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260B	MW13-ROX-041213	MC19830-1	04/12/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P56-ROX-041213	MC19830-3	04/12/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P59-ROX-041213	MC19830-4	04/12/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P59-ROX-041213-DUP	MC19830-5	04/12/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P93C-ROX-041213	MC19830-8	04/12/2013	Acetone	5.6	5.6	J	ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	P93C-ROX-041213	MC19830-8	04/12/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P55-ROX-041513	MC19877-1	04/15/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	T12-ROX-041513	MC19877-2	04/15/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P114-ROX-041513	MC19877-3	04/15/2013	Acetone	5.9	5.9	J	ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260B	P114-ROX-041513	MC19877-3	04/15/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	P54-ROX-050313	MC20494-1	05/03/2013	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

LABORATORY QUALIFIERS:

J = The analyte was detected below the reporting limit. Result is estimated.

ND = Not detected.

AECOM QUALIFIERS:

J = The result is estimated.

UJ = Estimated nondetect.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
						Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	Hexachlorobutadiene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	4.2 [1]	0.35 [3]			0.7 [2]	0.005 [1]	0.1 [2]		0.0002 [2]				0.005 [4]	0.7 [1]		0.007 [3]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
MW-01	MW-1-111110	11/11/2010	43.41 - 58.41	36.91	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW-1-111110-Dup	11/11/2010		36.91	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW1-ROX-011711	1/17/2011		37.58	NE	<0.039 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW1-ROX-042911	4/29/2011		38.37	NE	<0.0145 U	0.0363	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-120511	12/5/2011		37.10	NE	<0.005 UJ	0.00097	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.005	0.0142	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-102612	10/26/2012		41.22	NE																		
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW1-ROX-040913	4/9/2013	48.80 - 58.80	42.55	NE	<0.005	0.0004 J	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-02	MW-2-111010	11/11/2010	47.19 - 62.19	38.12	NE	<0.5	0.401	<0.25	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<0.05	<0.025	<0.05	<0.025	<0.025		0.641		<0.025
	MW2-ROX-011711	1/17/2011		38.67	NE	<0.005	0.294	<0.005	0.0078	0.0047 J	<0.005	<0.005	<0.001	<0.001	0.0077	<0.001	0.0019 J	<0.005	0.0032 J		0.74		<0.005
	MW02-ROX-051011	5/10/2011		39.14	NE	<0.005	1.18	<0.005	<0.005	0.0029 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0027 J	<0.025	1.24	<0.005	<0.005
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.05	1.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.76	<0.05	<0.05
	MW2-ROX-072711-DUP	7/27/2011		37.04	NE	<0.05	1.79	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.57	<0.05	<0.05
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	0.0216	<0.005	<0.005	0.0106	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0121	<0.025	0.503	<0.005	<0.005
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.025	0.0161	<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.13	0.777	<0.025	<0.025
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.025	0.0145	<0.025	<0.025	0.0068 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.008 J	<0.13	0.948	<0.025	<0.025
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005	0.01	<0.005	<0.005	0.0078	0.001 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.025	0.952	<0.005	<0.005
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025 UJ	0.0142	<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	0.0172 J	<0.025	<0.13	0.763	<0.025	<0.025
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01	0.0192	<0.01	0.0176 J	0.0077 J	0.002 J	<0.01	<0.002	<0.002	0.0083	<0.002	<0.004	<0.01	0.0094 J	<0.05	0.676	<0.01	<0.01
	MW2-ROX-040913	4/9/2013	49.87 - 59.87	43.70	NE	<0.05	0.0174	<0.025	0.0191 J	0.0085 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.0101 J	<0.13	0.91	<0.025	<0.025

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
MW-03	MW-3-111210	11/12/2010	30.98 - 45.98	24.05	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW3-ROX-011811	1/18/2011		24.92	NE	<0.005	0.00056	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00077 J	<0.001	0.00082 J	<0.005	<0.005		0.00082 J		<0.005
	MW03-ROX-051011	5/10/2011		24.79	NE	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.005	0.00056	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.005	0.00052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.005	0.00091	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005 UJ	0.0089	<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005 UJ	0.0017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW3-ROX-040813	4/8/2013	34.67 - 44.67	29.74	NE	<0.005 UJ	0.008	<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-04	MW-4-111210	11/12/2010	42.63 - 57.63	35.38	NE	<0.1	0.0752	<0.05	<0.005	0.001 J	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW4-ROX-011811	1/18/2011		36.04	NE	<0.005	0.0567	<0.005	0.0006 J	0.00063 J	0.00069 J	<0.005	<0.001	<0.001	0.00096 J	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW04-ROX-051111	5/11/2011		36.19	NE	<0.005	0.0625	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	0.114	<0.005	<0.005	0.0058	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0023	<0.005	<0.005
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	0.108	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0021	<0.005	<0.005
	MW4-ROX-121511	12/15/2011		33.99	NE	<0.005	0.0381	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.005	0.115	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	0.0017 J	<0.005
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005	0.0941	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.063 U	0.0933	<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005	0.191	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00082 J	<0.005	<0.005 UJ
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005	0.199	<0.005	0.0014 J	0.0017 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00083 J	<0.005	<0.005 UJ
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01 UJ	0.354	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004 UJ	<0.01	<0.01	<0.05	<0.002	<0.01	<0.01
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005	9.04 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00052 J	<0.005	<0.005
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	8.96 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00056 J	<0.005	<0.005
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	21.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	<0.1	<0.5	<0.5
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.02	64.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.05	<0.002	<0.01	<0.01
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.01	72.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00081 J	<0.005	<0.005
MW-05	MW-5-111210	11/12/2010	31.13 - 46.13	23.32	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW5-ROX-011811	1/18/2011		24.15	NE	<0.0344 U	0.0048	<0.005	<0.005	<0.005	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW05-ROX-051211	5/12/2011		23.98	NE	<0.005 UJ	0.0055	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005	0.0222	<0.005	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005	0.0221	<0.005	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.005 UJ	0.0109	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005	0.0442	<0.005	<0.005	<0.005	0.0057	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	0.0532	<0.005	<0.005	0.0029 J	0.0073	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	0.0925	<0.005	<0.005	0.0015 J	0.007	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00099 J	<0.025	<0.001	<0.005	<0.005 UJ
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005 UJ	0.0628	<0.005	<0.005	<0.005	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005	0.0072	<0.005	<0.005	0.0016 J	0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW5-ROX-040913	4/9/2013	33.97 - 43.97	29.41	NE	<0.005	0.0018	<0.01	<0.005	0.0018 J	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs															
MW-06A	MW-6A-110910	11/9/2010	31.98 - 46.98	25.62	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW6A-ROX-011911	1/19/2011		26.36	NE	<0.0135 U	0.0113	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW6A-ROX-051611	5/16/2011		26.10	NE	<0.005 UJ	0.0031	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005 U	0.0032	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0059 UJ	0.0105 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.005 UJ	0.0137 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	0.00077	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.0016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.12 UJ	0.00073	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005	0.0276	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6A-ROX-040313	4/3/2013	34.83 - 44.83	31.62	NE	<0.005 UJ	0.0017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-06B	MW-6B-111610	11/16/2010	64.05 - 69.05	25.47	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW6B-ROX-011911	1/19/2011		26.21	NE	<0.005	0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW6B-ROX-011911-DUP	1/19/2011		26.21	NE	<0.005	0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		0.0014 J
	MW6B-ROX-051611	5/16/2011		25.95	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.005 UJ	0.0022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.05	0.961	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02 UJ	<0.05	<0.05	<0.25	<0.01	<0.05	<0.05
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005	0.0013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	0.00086	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0032 UJ	0.00045 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005 UJ	0.0015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6B-ROX-040313	4/3/2013	64.05 - 69.05	31.68	NE	<0.005 UJ	0.00043 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-06C	MW-6C-111610	11/16/2010	84.95 - 89.95	25.25	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW6C-ROX-012111	1/21/2011		25.97	NE	<0.005	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW6C-ROX-051611	5/16/2011		25.76	NE	<0.005 UJ	0.0071	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.005 UJ	0.0027	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.005	0.0017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005	0.0028	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	0.0015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.003 UJ	0.00061	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.005 UJ	0.00035 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005 UJ	<0.0005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ
	MW6C-ROX-040313	4/3/2013	84.95 - 89.95	31.41	NE	<0.005 UJ	0.00062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-06D	MW-6D-111610	11/16/2010	104.72 - 109.72	25.13	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW6D-ROX-012111	1/21/2011		25.87	NE	<0.005	0.0104	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW6D-ROX-051611	5/16/2011		25.60	NE	<0.005 UJ	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.005 UJ	0.0027	<0.005	<0.005	<0.005	<0.005	0.007	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005	0.0022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005	0.0015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005 UJ	0.00068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005 UJ	0.00055	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005 UJ	0.00053 J	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ
	MW6D-ROX-040313	4/3/2013	104.72 - 109.72	31.27	NE	<0.005 UJ	0.00055	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
MW-07	MW-7-111710	11/17/2010	42.92 - 52.92	36.93	NE	<25	928 D	<12.5	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		<1.25
	MW-7-111710-Dup	11/17/2010		36.93	NE	<25	876 D	<12.5	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		<1.25
	MW7-ROX-012511	1/25/2011		37.52	NE	<0.005 UJ	1150 J	<0.005 UJ	0.0015 J J	0.0011 J J	0.0012 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ		0.0325 J		<0.005 UJ
	MW07-ROX-051311	5/13/2011		37.50	NE	<0.005 UJ	1030 J	<0.005 UJ	<0.005 UJ	0.0011 J J	0.0016 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.025 UJ	0.0494 J	<0.005 UJ	<0.005 UJ
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.005	922 J	<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0487	<0.005	<0.005
	MW7-ROX-072411	7/24/2011		35.65	NE	<25 UJ	1840	<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<130	<5	<25	<25
	MW-7-ROX-110211	11/2/2011		35.95	NE	<5	774	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	<5
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.166 U	1330 J	<0.005	0.0026 J	0.0021 J	0.003 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0727	<0.005	<0.005
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.146 U	1110	<0.005	0.0027 J	0.0022 J	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J	<0.025	0.0718	<0.005	<0.005
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5	738	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	<0.1	<0.5	<0.5
	MW7-ROX-080712	8/7/2012		39.50	NE	0.199 J	591 J	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.0619	<0.05	<0.05
	MW7-ROX-103012	10/30/2012		41.23	NE	<10 UJ	833	<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<50	<2	<10	<10
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10 UJ	863	<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<50	<2	<10	<10
	MW7-ROX-011513	1/15/2013		42.21	NE	<20	1230	<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<100	<4	<20	<20
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	1320	<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<100	<4	<20	<20
	MW7-ROX-041013	4/10/2013	42.92 - 52.92	42.70	NE	<20	475	<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<50	<2	<10	<10
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<20	499	<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<50	<2	<10	<10
MW-08	MW-8-111710	11/17/2010	33.60 - 43.60	27.84	NE	<25	965 D	<12.5	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		<1.25
	MW8-ROX-012511	1/25/2011		28.59	NE	<0.0469 U	986	<0.005 UJ	0.0021 J J	0.0014 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0012 J J		0.234 J		<0.005 UJ
	MW8-ROX-012511-DUP	1/25/2011		28.59	NE	<0.0403 U	1030	<0.005 UJ	0.002 J J	0.0014 J J	0.0011 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.001 J J		0.237 J		<0.005 UJ
	MW08-ROX-051311	5/13/2011		28.35	NE	<50	1310	<50	<50	<50	<50	<50	<10	<10	<20	<10	<20	<50	<50	<250	<10	<50	<50
	MW08-ROX-051311D	5/13/2011		28.35	NE	<5	952 J	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25	<1	<5	<5
	MW8-ROX-072411	7/24/2011		26.02	NE	<25	1650	<25 UJ	<25	<25	<25	<25	<5	<5	<10	<5	<10 UJ	<25	<25	<130	<5	<25	<25
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<25 UJ	1860	<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<130	<5	<25	<25
	MW-8-ROX-110211	11/2/2011		27.02	NE	<5	934	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	<5
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005	386	<0.005	0.0043 J	0.003 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.025	0.285	<0.005	<0.005
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5	1070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.393	<0.5	<0.5
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	1040	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.396	<0.5	<0.5
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.378 UJ	397 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.5	0.249	<0.1	<0.1
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.235 UJ	653 J	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.232	<0.05	<0.05
	MW8-ROX-103012	10/30/2012		32.32	NE	<5 UJ	523	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	<5
	MW8-ROX-011513	1/15/2013		33.30	NE	<10	1120 J	<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<50	<2	<10	<10
	MW8-ROX-041013	4/10/2013	33.60 - 43.60	33.77	NE	<50	969	<50	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<130	<5	<25	<25
MW-09	MW-9-111510	11/15/2010	46.45 - 56.45	39.00	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW9-ROX-012111	1/21/2011		39.62	NE	<0.005	0.0037	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW09-ROX-050611	5/6/2011		40.12	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.005 UJ	0.0024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005	0.0031	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-050312	5/3/2012		41.03	NE	<0.005	0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005 UJ	0.00058	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005		<0.001	<0.005	<0.005
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.123 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW9-ROX-040913	4/9/2013	46.45 - 56.45	44.67	NE	<0.005	<0.0005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
MW-10	MW-10-111010	11/10/2010	44.43 - 54.43	38.97	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW10-ROX-012411	1/24/2011		39.40	NE	<0.0122 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW10-ROX-012411-DUP	1/24/2011		39.40	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW10-ROX-042811	4/28/2011		40.20	NE	<0.0088 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.005	0.0022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.005	0.0026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.005	0.00079	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005 UJ	0.00058	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005		<0.001	<0.005	<0.005
	MW10-ROX-102612	10/26/2012		43.08	NE																		
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	0.00095 J	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.101 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0074	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.025	0.003	<0.0051 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.001	<0.01	<0.005	<0.005		<0.005	<0.005	<0.005
	MW10-ROX-040913	4/9/2013	44.43 - 54.43	44.60	NE	<0.005	0.00067	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-11	MW-11-111710	11/17/2010	41.66 - 51.66	36.39	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	MW11-ROX-012411	1/24/2011		37.15	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW11-ROX-050611	5/6/2011		37.60	NE	<0.005	0.00041 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW-11-ROX-110211	11/2/2011		35.44	NE	<0.005	0.0019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005	0.0024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.005	0.00087	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005 UJ	0.00073	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005		<0.001	<0.005	<0.005
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW11-ROX-040813	4/8/2013	41.66 - 51.66	42.02	NE	<0.005 UJ	<0.00065 U	<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-12	MW-12-111510	11/15/2010	41.92 - 51.92	36.63	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	0.00161 J	<0.01	<0.005	<0.005		<0.005		<0.005
	MW12-ROX-012411	1/24/2011		37.42	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW12-ROX-051211	5/12/2011		37.58	NE	<0.005 UJ	0.0016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.025	<0.001	<0.005	<0.005
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.005	0.0012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	0.0014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005	0.0023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005	0.0028	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005	0.00066	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005 UJ	0.0013	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005		<0.001	<0.005	<0.005
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.35 U	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW12-ROX-040813	4/8/2013	41.92 - 51.92	42.46	NE	<0.005 UJ	<0.00088 U	<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs															
MW-13	MW13-ROX-012511	1/25/2011	25.57 - 35.57	24.28	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	MW13-ROX-051311	5/13/2011		23.65	NE	<0.005 UJ	0.0005 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.005	<0.0005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.005	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.005	0.0742 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.037 U	0.0069 J	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.025 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005	0.0067 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	<0.005
	MW13-ROX-041213	4/12/2013	25.57 - 35.57	29.44	NE	<0.0319 UJ	0.0102 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005	0.009	<0.005	0.0014 J	0.0026 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	0.0131	<0.005	0.0015 J	0.0027 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00065 J	<0.005	<0.005
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005 UJ	0.00093	<0.005	<0.005	0.0028 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	0.0017	<0.005	0.0014 J	0.0032 J	0.0011 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	MW14-ROX-041113	4/11/2013	33.42 - 43.42	33.31	NE	<0.01	0.0125 J	<0.01	0.0021 J	0.0048 J	0.0016 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	0.00057 J	0.0029 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	<0.005
	MW16-ROX-040813	4/8/2013	37.06 - 47.06	43.39	NE	<0.005 UJ	<0.00058 U	<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
MW-18	MW18-ROX-040513	4/5/2013	34.92 - 49.92	NM	NE	<0.215 UJ	0.183 J	<0.005	0.0327 J	0.0121 J	0.008 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0106 J	<0.025	2.38	<0.005	<0.005
MW-21	MW21-ROX-040513	4/5/2013	35.01 - 50.01	NM	NE	<0.005 UJ	368	<0.005	0.0309	0.0246	0.0143	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0186	<0.025	0.519 J	<0.005	<0.005
	MW21-ROX-040513-DUP	4/5/2013		NM	NE	<0.005 UJ	364	<0.005	0.0298	0.0239	0.0142	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0182	<0.025	0.399	<0.005	<0.005
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	2.12	<0.295 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3 UJ	3.45	<0.25	<0.25
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	2.09	<0.31 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3 UJ	3.19	<0.25	<0.25
	MW22-ROX-040513	4/5/2013	37.88 - 47.88	42.23	NE	<0.005 UJ	1.5	<0.005	0.0413 J	0.0142 J	0.0171 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0122 J	<0.025	2.44	<0.005	<0.005
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	0.0029	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0012	<0.005	<0.005
P-54	P-54-111710	11/17/2010	38.00 - 63.00	36.43	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	P54-ROX-012411	1/24/2011		37.24	NE	<0.0048 U	<0.00039 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		<0.005
	P54-ROX-051111	5/11/2011		37.37	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-072411	7/24/2011		35.38	NE	<0.005 UJ	0.0023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.025	<0.001	<0.005	<0.005
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005	0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005	0.00082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	<0.005
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-041013	4/10/2013	38.00 - 63.00	41.80	NE	<0.01	0.172	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P54-ROX-050313	5/3/2013		41.80	NE	<0.01 UJ	0.0028	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	0.152	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0143	<0.005	<0.005
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005	<0.197 U	<0.005	<0.005	0.0036 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0656	<0.005	<0.005
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005	<0.202 U	<0.005	<0.005	0.0038 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0683	<0.005	<0.005
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005	0.388	<0.005	0.0099	0.0093	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.025	0.41	<0.005	<0.005
	P55-ROX-012113	1/21/2013	40.85 - 50.85	45.24	NE	<0.25	0.571	<0.25	0.0533	0.011 J	<0.05	<0.05	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.05		0.316	<0.05	<0.01
	P55-ROX-012113	1/21/2013		45.24	NE	<0.005	0.538	<0.253 U	0.0203	0.0143	0.0013 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0055	<0.025	0.366	<0.005	<0.005
	P55-ROX-041513	4/15/2013	40.85 - 50.85	43.63	NE	<0.02 UJ	0.434	<0.01	0.0052 J	0.0196	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.05	0.35	<0.01	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs															
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005	0.144	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.457 J	<0.005	<0.005
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005	0.335	<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.227	<0.005	<0.005
	P56-ROX-050812	5/8/2012		43.09	NE	<0.23 U	0.144	<0.005	0.0086	0.0051	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0069	<0.005	0.0044 J	<0.025	1.14	<0.005	<0.005
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025 UJ	0.164	<0.025 UJ	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025		0.101	<0.025	<0.025
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005 UJ	0.176	<0.005	<0.005	0.005	0.0021 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0041 J	<0.025	1.29	<0.005	<0.005
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025	0.191	<0.025	0.0031 J	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.13	0.0088	<0.025	<0.025
	P56-ROX-041213	4/12/2013	40.82 - 65.82	46.12	NE	<0.02 U	0.131	<0.01	<0.01	0.0142	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.05	0.691	<0.01	<0.01
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.5	123	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.1	<0.5	<0.5
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5 UJ	126	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	0.719	<2.5	<2.5
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5	147	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.07	<0.5	<0.5
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25 UJ	99.4 J	<0.25 UJ	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25		0.795	<0.25	<0.25
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005 UJ	106 J	<0.005 UJ	<0.005	0.0107	0.0124	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0109		0.759 E	<0.005	<0.005
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	142	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	1.09	<2.5	<2.5
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5	114	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	1.43	<1	<0.5	<1	<2.5	<2.5	<13	1.1	<2.5	<2.5
	P57-ROX-041113	4/11/2013	40.46 - 65.46	46.29	NE	<5	141	<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	1.19	<2.5	<2.5
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005	430	<0.005	<0.005	0.0148	0.0344	<0.005	<0.001	0.0014	<0.002	<0.001	<0.002	<0.005	0.0113	<0.025	<5	<0.005	<0.005
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005	487	<0.005	0.027	0.0215	0.056 J	<0.005	<0.001	0.0013	<0.002	<0.001	<0.002	<0.005	0.0149	<0.025	0.97 J	<0.005	<0.005
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005	474	<0.005	0.0235 J	0.0168 J	0.0387 J	<0.005	<0.001	0.0014 J	<0.002	<0.001	<0.002	<0.005	0.0123 J	<0.025	1.03	<0.005	<0.005
	P58-ROX-050712	5/7/2012		40.90	NE	<0.5	477	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.03	<0.5	<0.5
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5	440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1	<0.5	<0.5
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1 UJ	313 J	<0.1 UJ	<0.1	<0.1	0.0317 J	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1		0.889	<0.1	<0.1
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05	308 J	<0.05	<0.05	0.0176 J	0.0339 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0118 J	<0.25	0.931	<0.05	<0.05
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5 UJ	415	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.844	<0.5	<0.5
	P58-ROX-121012	12/10/2012		43.09	NE																		
	P58-ROX-012213	1/22/2013		44.21	NE	<5	552	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25	1.27	<5	<5
	P58-ROX-041113	4/11/2013	40.21 - 65.21	44.40	NE	<20	532	<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<50	1.28 J	<10	<10
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.25	6.01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	1.49	<0.25	<0.25
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005	6.61	<0.158 U	<0.005 UJ	0.0054	0.0031 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0036 J	<0.025	1.28	<0.005	<0.005
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005	7.04	<0.185 U	0.0264 J	0.0055	0.0372 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0038 J	<0.025	1.4	<0.005	<0.005
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25	7.86	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	1.93	<0.25	<0.25
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1 UJ	11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1		1.74	<0.1	<0.1
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5 UJ	10.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.87	<0.5	<0.5
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.5 UJ	10.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.94	<0.5	<0.5
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25	12.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	1.9	<0.25	<0.25
	P59-ROX-041213	4/12/2013	47.91 - 72.11	46.95	NE	<0.5 UJ	15	<0.25	<0.25	0.289	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	2.85	<0.25	<0.25
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.5 UJ	13.4	<0.25	<0.25	0.288	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	2.57	<0.25	<0.25
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	0.0171	<0.005	0.0153	0.0185	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	0.0016	<0.005	<0.005
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	0.0193	<0.005	0.0139	0.019	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0015	<0.005	<0.005
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	0.0994	<0.005	0.0118	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0013	<0.005	<0.005
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	0.223	<0.005	0.0145	0.02	0.0054	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0012	<0.005	<0.005
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005	0.0896	<0.005	0.0129	0.0227	0.0087	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0014	<0.005	<0.005
	P66-ROX-041113	4/11/2013	34.72 - 59.72	36.03	NE	<0.01	0.0444	<0.01	0.0199	0.0249	0.0104	<0.005	<0.001	<0.001	0.00065 J	<0.001	<0.002	<0.005	0.0093	<0.025	0.0036	<0.005	<0.005
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	5.02	<0.005	0.0242	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.229	<0.005	<0.005
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005	<0.205 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0095	<0.005	<0.005
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005	0.336	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0081	<0.005	<0.005
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05 UJ	2.46	<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05		0.0782	<0.05	<0.05
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1	3.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.5	0.0493	<0.1	<0.1
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1	4.99	<0.1	0.0143 J	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.5	0.0997	<0.1	<0.1
	P74-ROX-041113	4/11/2013	44.43 - 69.43	42.83	NE	<0.01	0.144	<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0086	<0.005	<0.005

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
P-93A	P93A-102610	10/26/2010	48.17 - 63.17	40.75	NE	<25	422 D	<12.5	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		0.32 J		<1.25
	P93A-ROX_012611	1/26/2011		40.97	NE	<0.005	491	<0.005	0.0059	0.0096	0.0213	<0.005	0.00081 J	0.00061 J	<0.002	<0.001	<0.002	<0.005	0.0047 J		0.373		0.0016 J
	P93A-ROX-050511	5/5/2011		41.88	NE	<0.005	551	<0.005	<0.005	0.0054 J	0.0133 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J J	<0.025	<5	<0.005	<0.005
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.005	467	<0.005	<0.005	0.0071	0.0177	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0049 J	<0.025	<10	<0.005	<0.005
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005 UJ	543	<0.005	<0.005	0.006	0.015	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0081	<0.025	0.304	<0.005	<0.005
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005	164 J	<0.005	0.0037 J J	0.0045 J	0.0122	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.025	0.185	<0.005	<0.005
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0441 U	200	<0.005 UJ	0.005 J	0.0069 J	0.0179 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0035 J J	<0.025 UJ	0.38 J	<0.005 UJ	<0.005 UJ
	P93A-ROX-080912	8/9/2012		43.66	NE	<1.63 U	87	<0.005	0.0016 J	0.0048 J	0.0128	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.025	0.225	<0.005	<0.005
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5 UJ	148	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.265	<0.5	<0.5
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5 UJ	156	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.262	<0.5	<0.5
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5	101	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13 UJ	<0.5	<2.5	<2.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	98.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13 UJ	<0.5	<2.5	<2.5
	P93A-ROX-041113	4/11/2013	48.17 - 63.17	46.29	NE	<5	120	<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	0.255 J	<2.5	<2.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<5	120	<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	<0.5	<2.5	<2.5
P-93B	P93B-102610	10/26/2010	74.60 - 76.60	40.73	NE	<10	189 D	<5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5		<0.5		<0.5
	P93B-ROX_012611	1/26/2011		41.03	NE	<0.005	105	<0.005	<0.005	<0.005	0.00058 J	<0.005	<0.001	<0.001	0.00077 J	<0.001	0.0014 J	<0.005	<0.005		0.0104		<0.005
	P93B-ROX-050511	5/5/2011		41.96	NE	<0.005	134	<0.005	<0.005	0.0045 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0169	<0.005	<0.005
	P93B-ROX-081811	8/18/2011		39.44	NE	<5	304	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25	<1	<5	<5
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.005 UJ	590	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0533	<0.005	<0.005
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005	337	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	0.0831 J	0.0274 J	<0.005	<0.005
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0747 U	304	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0379 J	<0.005	<0.005
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0672 UJ	317	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0741	<0.005	<0.005
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5 UJ	162 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	<0.1	<0.5	<0.5
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5 UJ	413 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.0695 J	<0.5	<0.5
	P93B-ROX-012313	1/23/2013		45.89	NE	<5	415	<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25 UJ	<1	<5	<5
	P93B-ROX-041113	4/11/2013	74.60 - 76.60	46.32	NE	<5	618	<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	<0.5	<2.5	<2.5
P-93C	P93C-102610	10/26/2010	94.26 - 96.26	40.69	NE	<0.1	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	P93C-ROX_012611	1/26/2011		40.91	NE	<0.005	86.5	<0.005	<0.005	<0.005	0.00056 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		0.0175		<0.005
	P93C-ROX-050611	5/6/2011		41.84	NE	<0.005	15.7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0029	<0.005	<0.005
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.005	1.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.005 UJ	0.0014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.005	0.0057	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0056 UJ	0.00084	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	<0.005
	P93C-ROX-041213	4/12/2013	94.26 - 96.26	46.21	NE	<0.0056 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
P-93D	P93D-102610	10/26/2010	125.44 - 127.44	40.59	NE	<0.1	0.0429	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		<0.005
	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.005	0.0287	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.005	0.00097	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005	0.0513	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.005	0.0056	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005 UJ	0.0134	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005	0.049	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005	0.106	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00069 J	<0.005	<0.005
	P93D-ROX-041113	4/11/2013	125.75 - 127.75	46.37	NE	<0.01	<0.0005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005	0.0011 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0756 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0144 UJ	<0.0005	<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	<0.005
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	<0.005
	P114-ROX-041513	4/15/2013	32.67 - 52.67	31.80	NE	<0.0059 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.61 U	0.0074	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0167	<0.005	<0.005
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	0.0041	<0.005	<0.005	<0.005	0.00072 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0047	<0.005	<0.005
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0018	<0.005	<0.005
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	0.0051 J	<0.005	0.0028 J	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.025 UJ	0.0296	<0.005	<0.005
	ROST3MW-ROX-040513	4/5/2013	37.81 - 47.81	42.24	NE	<0.005 UJ	0.0605	<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0012 J	<0.025	0.0136	<0.005	<0.005
ROST-4-PZ(A)[6]	ROST4PZA-ROX-040413	4/4/2013	34.77 - 44.77	41.42	NE	<0.005	0.208	0.0052	<0.005	<0.005	<0.005	0.00061 J	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0021	<0.005	<0.005
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	<0.005
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	0.0849	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.177	<0.005	<0.005 UJ
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	0.0014	<0.005	<0.005
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0013	<0.005	<0.005
	ROST4PZC-ROX-041013	4/10/2013	34.95 - 44.95	42.27	NE	<0.01	0.0153 J	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0028 J	<0.005	<0.005
ROST-4-PZ(F)[6]	ROST4PZF-ROX-040413	4/4/2013	34.53 - 44.53	41.03	NE	<0.005	0.15	<0.01	0.0036 J	0.0018 J	<0.005	<0.005	<0.001	<0.001	0.0037	<0.001	0.00098 J	<0.005	0.0019 J	<0.025	0.393	<0.005	<0.005
ROST-4-PZ(G)[6]	ROST4PZG-ROX-040413	4/4/2013	34.28 - 44.28	42.03	NE	<0.005	0.0228	0.0377	<0.005	0.0021 J	<0.005	<0.005	<0.001	<0.001	0.0095	<0.001	0.0016 J	<0.005	0.0011 J	<0.025	0.0222	<0.005	<0.005
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.05	1.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.648	<0.05	<0.05
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005	1.51	<0.005	0.0062	0.0022 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.025	0.285	<0.005	<0.005
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025	1.48	<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.13	1.88	<0.025	<0.025
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05 UJ	1.64	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05		0.573	<0.05	<0.05
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05	1.71	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.73	<0.05	<0.05
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025	2.03 J	<0.0795 U	0.0056 J	0.0036 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.13 UJ	0.426	<0.025	<0.025
	T12-ROX-041513	4/15/2013	46.72 - 72.72	44.99	NE	<0.1 UJ	1.61	<0.05	<0.05	0.0595	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.03	<0.05	<0.05

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene [5]	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
		0.7 [3]		0.070 [1]	0.14 [2]	0.7 [3]	1 [1]	0.0056 [3]	0.07 [2]	0.005 [2]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
ANALYTICAL RESULTS (mg/L)																	
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		0.0032	<0.0063	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.0013	
	<0.005	<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0016	<0.001	0.0016
	<0.005	<0.005	<0.005	0.0055	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0027	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0032	0.000079 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0031	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0022	0.0001 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0015	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0012	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		0.0236 J		<0.025	0.077	0.0354	1.22 D	<0.025	<0.025	<0.025		0.273	0.0618	<0.25	1.14	0.318	
		0.0617		<0.001	0.0312	0.0652	0.737	<0.005	<0.005	<0.001		0.279	0.0744	<0.005	0.892	0.191	
	<0.005	0.0539	<0.005	<0.001	0.0545 J	0.0669	3.51	<0.005	<0.005	<0.001		0.339	0.103	<0.005	2.05	0.549	2.6
	<0.05	0.0995	<0.05	<0.01	0.0671	0.111	4.69	<0.05	<0.05	<0.01		0.338	0.116	<0.05	2.91	0.823	3.74
	<0.05	0.0967	<0.05	<0.01	0.0659	0.1	4.67	<0.05	<0.05	<0.01		0.298	0.108	<0.05	2.63	0.728	3.36
	<0.005	0.128	<0.005	<0.001	0.0777	0.146	0.0328	<0.005	<0.005	<0.001		0.407	0.212	<0.005	0.747	0.0574	0.804
	<0.025	0.0832	<0.025	<0.005	0.0859	0.0993	0.0375	<0.025	<0.025	<0.005		0.388	0.162	<0.025	0.857	0.056	0.913
	<0.025	0.0886	<0.025	<0.005	0.0497	0.119	0.0445	<0.025	<0.025	<0.005		0.413	0.154	<0.025	1.14	0.0797	1.22
	<0.005	0.0818	<0.005	<0.001	0.0554	0.116	0.0374	<0.005	<0.005	<0.001		0.338	0.135	<0.005	1.27	0.0906	1.34
	<0.025	0.0764	<0.025	0.0115	0.0821	0.104	0.0216	<0.025	<0.025	<0.005		0.299	0.129	<0.025	0.878	0.052	0.93
	<0.01	0.0879	<0.01	<0.002	0.0768	0.121	0.0093	<0.01	<0.01	<0.002		0.219	0.105	<0.01	0.685	0.0287	0.713
	<0.025	0.085	<0.025	<0.005	0.0578	0.11	0.0073	<0.025	<0.025	<0.005		0.338	0.155	<0.025	1.01	0.0454	1.05

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
		0.0016 J		<0.005	<0.01	0.00622	0.00257 J	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	0.00653 J	<0.005	
		<0.005		0.0021	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001		0.00085 J	<0.005	<0.005	0.0012	0.0014	
	<0.005	<0.005	<0.005	0.0026	0.00011 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0022	<0.001	0.0022
	<0.005	0.0012 J	<0.005	<0.001	<0.000083 U	<0.005	0.0015	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0039	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.007	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		0.00271 J		0.00508	<0.009	0.00395 J	0.0157	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	0.00699 J	0.00139 J	
		0.002 J		0.007	<0.0052	0.0022 J	0.0071	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0062	0.0021	
	<0.005	0.0036 J	<0.005	0.0096	<0.0001 UJ	0.0037 J	0.0125	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0096	0.0016	0.0111
	<0.005	0.0088	<0.005	0.0113	0.00025	0.0085	0.017	<0.005	<0.005	<0.001		<0.005	0.0052	<0.005	0.0067	<0.001	0.0067
	<0.005	0.0088	<0.005	0.0103	0.00021	0.0083	0.0162	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0063	<0.001	0.0063
	<0.005	<0.005	<0.005	0.0073 J	0.00023	<0.005	0.0092	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0069	0.001	0.0079
	<0.005	0.0061	<0.005	<0.001	<0.0001	0.0061	0.0283	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0148	0.0025	0.0173
	<0.005	0.0038 J	<0.005	0.0174	<0.0001	<0.005	0.0255	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.016	0.003	0.0189
	<0.005	0.0036 J	<0.005	0.0162	<0.0001	0.0043 J	0.0252	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0151	0.0031	0.0182
	<0.005	0.0061	<0.005	0.015	<0.0001	0.0071	0.0418	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0221	0.0042	0.0262
	<0.005	0.0063	<0.005	0.0154	<0.0001	0.0072	0.0427	<0.005	<0.005	<0.001		0.00068 J	0.0057	<0.005	0.0214	0.0043	0.0257
	<0.01	0.0029 J	<0.01	0.0324	<0.01	0.0033 J	0.0175	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0114	<0.002	0.0114
	<0.005	0.0012 J	<0.005	0.0654	<0.005	0.0026 J	0.0075	<0.005	<0.005	<0.001		0.0019 J	0.0024 J	<0.005	0.0056	<0.001	0.0056
	<0.005	0.0014 J	<0.005	0.0681	<0.005	0.003 J	0.0083	<0.005	<0.005	<0.001		0.0019 J	0.0026 J	<0.005	0.006	<0.001	0.006
	<0.5	<0.5	<0.5	0.112	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	<0.01	<0.01	<0.01	0.112	<0.01	<0.01	0.0057	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0052	<0.002	0.0062
	<0.005	<0.005	<0.005	0.125	<0.005	0.004 J	0.0076	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0073	0.0011	0.0084
		<0.005		0.00556	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	0.00277 J	<0.005	
		<0.005		0.0066	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.00087 J	0.0014	
	<0.005	<0.005	<0.005	0.0085	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0035	<0.001	0.0035
	<0.005	0.0161	<0.005	0.0031	<0.0001 U	0.0105	0.0017	<0.005	<0.005	<0.001		<0.005	0.0055	<0.005	0.0074	<0.001	0.0074
	<0.005	0.016	<0.005	0.0031	<0.00015 U	0.0104	0.0016	<0.005	<0.005	<0.001		<0.005	0.0055	<0.005	0.0068	<0.001	0.0068
	<0.005	<0.005	<0.005	0.0069	<0.00014 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0187	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.00081 U
	<0.005	0.001 J	<0.005	0.022	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.0066	<0.005	0.013	0.00032	0.0018 J	0.0032	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.008	0.0017	0.0097
	<0.005	0.002 J	<0.005	0.0219	<0.005	<0.005	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0018	<0.001	0.0018
	<0.005	0.00086 J	<0.005	0.0295	<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.00085 J	<0.005	0.0427	<0.005	<0.005	0.002	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.001	<0.001	0.0014

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
		<0.005		0.0203	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		0.0181	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	0.0277	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0237	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0169	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0181	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0185	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0019	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		0.00204 J	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		0.0016	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
		<0.005		0.0016	<0.0051	<0.005	<0.001	0.0016 J	0.0011 J	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	0.0029	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	0.0031	0.000044 J J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0049	0.0012 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.05	<0.05	<0.05	0.036 J	<0.0001	<0.05	<0.01	<0.05	<0.05	<0.01		<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
	<0.005	<0.005	<0.005	0.0049	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0115	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0122	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0091	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0166	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0132	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		0.0021	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	0.0034	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0027	0.00075 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0039 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005 UJ	<0.005 UJ	0.0012 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	<0.005	<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		<0.001	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	<0.001	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00074 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00016 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
		<1.25		<1.25	0.004 J	<1.25	<1.25	<1.25	<1.25	<1.25		<1.25	<1.25	<12.5	<2.5	<1.25	
		<1.25		<1.25	0.005 J	<1.25	<1.25	<1.25	<1.25	<1.25		<1.25	<1.25	<12.5	<2.5	<1.25	
	<0.005 UJ	0.004 J J	<0.005 UJ	<0.0057 U	0.0058	0.0058 J	0.0907 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0552 J	0.0133 J	<0.005 UJ	0.0694 J	0.0235 J	
	<0.005 UJ	0.0061 J	<0.005 UJ	0.0109 J	0.0114 J	0.0078 J	0.128 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0822 J	0.0193 J	<0.005 UJ	0.101 J	0.0418 J	0.143 J
	<0.005	0.006	<0.005	0.012	0.011 J	0.0078	0.126	<0.005	<0.005	<0.001		0.0825	0.0193	<0.005	0.0984	0.0405	0.139
	<25	<25	<25	<5	0.0081	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	<5	<5	<5	<1	0.0113	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	<0.005	0.0101	<0.005	0.0022	0.0134	0.0135	0.158	<0.005	<0.005	<0.001		0.148	0.0341	<0.005	0.137	0.0527	0.19
	<0.005	0.01	<0.005	0.0024	0.0138	0.0138	0.156	<0.005	<0.005	<0.001		0.146	0.0332	<0.005	0.134	0.051	0.184
	<0.5	<0.5	<0.5	<0.1	0.0158	<0.5	0.101	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	<0.05	<0.05	<0.05	<0.01	0.0089	0.0102 J	0.0629	<0.05	<0.05	<0.01		0.1	0.021 J	<0.05	0.12	0.0486	0.169
	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	<20	<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	<20	<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
		<1.25		<1.25	0.023	<1.25	0.328 J	<1.25	<1.25	<1.25		<1.25	<1.25	<12.5	<2.5	<1.25	
	<0.005 UJ	0.0104 J	<0.005 UJ	0.21 J	0.026	0.0173 J	1.2 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.109 J	0.0332 J	<0.005 UJ	0.499 J	0.188 J	
	<0.005 UJ	0.0105 J	<0.005 UJ	0.205 J	0.0288	0.017 J	1.12 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.11 J	0.0336 J	<0.005 UJ	0.518 J	0.191 J	
	<50	<50	<50	<10	0.0241 J	<50	<10	<50	<50	<10		<50	<50	<50	<10	<10	<10
	<5	<5	<5	0.657 J	0.0288 J	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	<25	<25	<25	<5	0.0237	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	<25	<25	<25	<5	0.023	<25	<5	<25	<25	<5		<25	<25	<25 UJ	<5	<5	<5
	<5	<5	<5	4.94 J	0.0282	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	<0.005	0.0162	<0.005	1.41 J	0.0239	0.0377	<2	<0.005	<0.005	<0.001		0.163	0.061	<0.005	0.574	0.219	0.794
	<0.5	<0.5	<0.5	4.15	0.0186	<0.5	1.55	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.978	0.37	1.35
	<0.5	<0.5	<0.5	4.07	0.0188	<0.5	1.52	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.939	0.381	1.32
	<0.1	<0.1	<0.1	0.878	0.0164	0.0191 J	0.781	<0.1	<0.1	<0.02		0.104	0.0299 J	<0.1	0.623	0.246	0.868
	<0.05	<0.05	<0.05	0.885	0.0164	0.0176 J	0.729	<0.05	<0.05	<0.01		0.0921	0.0265 J	<0.05	0.598	0.235	0.833
	<5	<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	<10	<10	<10	<2	<10	<10	2.09	<10	<10	<2		<10	<10	<10	<2	<2	<2
	<25	<25	<25	<5	<25	<25	<5	<25	<25	<5		<25	<25	<25	<5	<5	<5
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		<0.005		<0.001	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	<0.001	<0.000097 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.001 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.000062 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005	<0.005	<0.005	<0.001	<0.0051	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005	<0.005	<0.005	<0.001	<0.0048	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00062 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.000047 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.000052 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00058 J
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.016	<0.001	<0.001	<0.001
<0.02	<0.025	<0.005	<0.025	<0.002	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005	<0.005	<0.005	<0.001	<0.0052	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005 UJ	<0.005	<0.005	<0.001	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00027 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.003 J	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	<0.001	<0.00012	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005	<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005	<0.005	<0.005	<0.001	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00098 B	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.00089 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																
	<0.005	<0.005	<0.005	<0.001	<0.0052	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005	<0.005	<0.005	0.0061 J	<0.000095 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.004	<0.000045 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0156 J	0.00017	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0066 J	0.00021	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0083	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005 UJ	<0.005 UJ	<0.005 UJ	0.0133 J	<0.0013 U	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0082	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.0104	<0.005	<0.001	0.00099	0.0078	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0016	0.00041 J	0.002
	<0.005	0.0173	<0.005	<0.001	0.0013	0.0137	0.00093 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0033	0.00061 J	0.0039
	<0.005	0.0161	<0.005	<0.001	<0.005	0.0121	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0024	<0.001	0.0024
	<0.005	0.021	<0.005	<0.001	<0.005	0.0162	0.00097 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0026	<0.001	0.003
	<0.005	0.0346	<0.005	<0.001	<0.005	0.0206	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0038	<0.001	0.0043
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	0.19 J	0.0971 J	0.126 J	<0.001	0.289 J	0.204 J	0.14 J	<0.005	<0.005	<0.001		0.929	0.268 J	<0.005	5.29	0.46	5.75
	<0.005	0.0834	<0.005	<0.001	0.175 J	0.124	0.015	<0.005	<0.005	<0.001		0.302	0.0939	<0.005	0.204	0.0034	0.207
	<0.005	0.0812	<0.005	<0.001	0.132 J	0.118	0.0144	<0.005	<0.005	<0.001		0.287	0.0903	<0.005	0.196	0.0029	0.199
	<0.25	0.126 J	<0.25	<0.05	0.396	0.22 J	10.5	<0.25	<0.25	<0.05		1.23	0.288	<0.25 UJ	7.56	3.73	11.3
	<0.25	0.124 J	<0.25	<0.05	0.377	0.234 J	9.06	<0.25	<0.25	<0.05		1.26	0.291	<0.25 UJ	6.96	3.52	10.5
	<0.005	0.159 J	0.0124 J	<0.001	0.286 J	0.29 J	6.14	<0.005	<0.005	<0.001		0.931	0.379 J	<0.005	5.15	2.64	7.79
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001		0.00051 J	<0.005	<0.005	0.0021	0.0009 J	0.003
		<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	
	<0.005	<0.005	<0.005	<0.001	0.00013 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.000066 JB	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.000089 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0012	0.0015	<0.005	0.029	<0.005	<0.005	<0.001		0.0067	0.0056	<0.005	0.0466	0.0163	0.0629
	<0.005	0.0105 J	<0.005	<0.001	0.0197	0.0173	0.0337	<0.005	<0.005	<0.001		0.017	0.009	<0.005	0.205	0.0663	0.271
	<0.005	0.0105 J	<0.005	<0.001	0.0169	0.0176	0.0359	<0.005	<0.005	<0.001		0.0179	0.0097	<0.005	0.21	0.0649	0.275
	<0.005	0.0392	<0.005	<0.001	0.0271	0.0699	0.227	<0.005	<0.005	<0.001		0.158	0.0368	<0.005	0.885	0.112	0.97
0.276	<0.25	0.0678	<0.25	<0.02	0.079 J	0.14	0.189	<0.05	<0.01	<0.05	0.183	0.039 J	0.026 J	<0.1	0.279	0.347	
	<0.005	0.0937	<0.005	0.002	0.12	0.206	0.262	<0.005	<0.005	<0.001		0.046	0.0312	<0.005	0.356	0.382	0.738
	<0.01	0.068	<0.01	<0.002	0.0974 J	0.148	0.143	<0.01	<0.01	<0.002		0.0241	0.0229	<0.01	0.235	0.362	0.597

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																
	<0.005	0.0512	<0.005	<0.001	0.067	0.0463	0.0422	<0.005	<0.005	<0.001		0.0962	0.0226	<0.005	0.476	0.0332	0.509
	<0.005	0.0787 J	<0.005	<0.001	0.0596	0.0697	0.023	<0.005	<0.005	<0.001		0.0229	0.0077	<0.005	0.202	0.0161	0.218
	<0.005	0.0876	<0.005	<0.001	0.0667	0.111	0.197	<0.005	<0.005	<0.001		0.312	0.0708	<0.005	1.37	0.197	1.53
	<0.025 UJ	0.0442	<0.025	<0.005	0.0197	0.0439	0.0109	<0.025 UJ	<0.025 UJ	<0.005		0.0131 J	0.005 J	<0.025 UJ	0.11	0.0083	0.118
	<0.005	0.0752	<0.005	<0.001	0.167	0.105	0.187	<0.005	<0.005	<0.001		0.387	0.0901	<0.005	1.62	0.144	1.73
	<0.025	0.0398	<0.025	<0.005	0.0322	0.0456	0.0119	<0.025	<0.025	<0.005		0.0172 J	0.0092 J	<0.025	0.0745	<0.005	0.0745
	<0.01	0.0581	<0.01	<0.002	0.0964 J	0.0805	0.0799	<0.01	<0.01	<0.002		0.27	0.0486	<0.01	1	0.0243	1.03
	<0.5	<0.5	<0.5	0.221	0.152	<0.5	<0.1	<0.5	<0.5	<0.1		0.615	<0.5	<0.5	1.02	<0.1	1.02
	<2.5	<2.5	<2.5	<0.5	0.271 J	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	0.502	<0.5	0.502
	<0.5	<0.5	<0.5	0.453	0.0894	<0.5	<0.1	<0.5	<0.5	<0.1		0.632	0.159 J	<0.5	0.928	0.0563 J	0.984
	<0.25 UJ	<0.25	<0.25	0.238	0.119	<0.25	0.0577	<0.25	<0.25	<0.05		0.506	0.123 J	<0.25 UJ	0.74	0.0328 J	0.773
	<0.005 UJ	0.0432	<0.005	0.212	0.115	0.0519	0.0558	<0.005	<0.005	<0.001		0.505 E	0.137	<0.005 UJ	0.692	0.0348	0.727
	<2.5	<2.5	<2.5	<0.5	1.53 J	<2.5	<0.5	<2.5	<2.5	<0.5		0.577 J	<2.5	<2.5	1.03	<0.5	1.03
	<2.5	<2.5	<2.5	<0.5	<2.5	0.331 J	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		0.494 J	<2.5	<2.5	<0.5	<0.5	<0.5
	<0.005	0.0734	<0.005	<0.001	0.204	0.0862	0.13	<0.005	<0.005	<0.001		<25	0.104	<0.005	0.575	0.101	0.677
	0.0097	0.108 J	<0.005	0.0082	0.212	0.129 J	0.155 J	<0.005	<0.005	<0.001			0.14 J	0.0408 J	0.679	0.108	0.787
	<0.005	0.0832 J	<0.005	0.0101 J	0.191 J	0.0993 J	0.119 J	<0.005	<0.005	<0.001		<5	0.11	<0.005 UJ	<1	<1	<1
	<0.5	<0.5	<0.5	<0.1	0.112 J	0.106 J	0.137	<0.5	<0.5	<0.1		0.776	0.108 J	<0.5	0.666	0.0982 J	0.764
	<0.5	<0.5	<0.5	<0.1	0.0697 J	0.108 J	0.145	<0.5	<0.5	<0.1		0.757	0.109 J	<0.5	0.636	0.0968 J	0.733
	<0.1 UJ	0.0649 J	<0.1	<0.02	0.142	0.0909 J	0.117	<0.1	<0.1	<0.02		0.705	0.0955 J	<0.1 UJ	0.652	0.0976	0.749
	<0.05	0.0718	<0.05	<0.01	0.15	0.0996	0.128	<0.05	<0.05	<0.01		0.737	0.102	<0.05	0.656	0.104	0.759
	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	0.124	<0.5	<0.5	<0.1		0.658	0.108 J	<0.5	0.544	0.0807 J	0.624
	<5	<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	0.728 J
	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2		0.926 J	<10	<10	<2	<2	<2
	<0.25	<0.25	<0.25	<0.05	0.0793	<0.25	0.321	<0.25	<0.25	<0.05		0.477	<0.25	<0.25	3.11	0.312	3.42
	<0.005	0.0713	<0.005	<0.001	0.18	0.128	0.896	<0.005	<0.005	<0.001		0.483 J	0.198	<0.005	3.03	0.587	3.62
	<0.005	0.0733	<0.005	<0.001	0.183	0.133	0.931	<0.005	<0.005	<0.001		0.536	0.203	<0.005	3.21	0.587	3.8
	<0.25	0.0585 J	<0.25	<0.05	0.0925	0.123 J	2.35	<0.25	<0.25	<0.05		0.67	0.171 J	<0.25	4.56	1.08	5.64
	<0.1	0.0452 J	<0.1	<0.02	0.0886	0.0974 J	0.506	<0.1	<0.1	<0.02		0.563	0.158	<0.1	4.35	0.376	4.73
	<0.5	<0.5	<0.5	<0.1	<0.5	0.105 J	1.09	<0.5	<0.5	<0.1		0.558	0.154 J	<0.5	4.49	0.686	5.17
	<0.5	<0.5	<0.5	<0.1	<0.5	0.111 J	1.1	<0.5	<0.5	<0.1		0.592	0.167 J	<0.5	4.68	0.721	5.4
	<0.25	0.0455 J	<0.25 UJ	<0.05 UJ	0.376	0.085 J	0.296	<0.25	<0.25	<0.05		0.563	0.0491 J	<0.25	4.19	0.264	4.45
	<0.25	0.062 J	<0.25	<0.05	0.664	0.136 J	0.523	<0.25	<0.25	<0.05		0.946	<0.25	<0.25	6.52	0.646	7.16
	<0.25	0.0543 J	<0.25	<0.05	0.547	0.117 J	0.463	<0.25	<0.25	<0.05		0.843	<0.25	<0.25	5.89	0.591	6.48
	<0.005	0.158	<0.005	0.0845 J	0.0091	0.188	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.123	<0.005	0.0771	<0.0001	0.152	0.0021	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0012	0.0012	0.0024
	<0.005	0.0874	<0.005	0.103	0.0013	0.112	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0011	0.0011	0.0022
	<0.005	0.122	<0.005	0.0733	<0.005	0.156	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.146	<0.005	0.104	<0.005	0.193	0.0015	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00093 J	0.00093 J
	<0.005	0.287	<0.005	0.086	<0.005	0.384	0.0012	<0.005	<0.005	<0.001		0.0041 J	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.0123	<0.005	0.0222	0.0673	0.0222	0.669	<0.005	<0.005	<0.001		0.587	0.162	<0.005	0.177	<0.1	0.177
	<0.005	<0.005	<0.005	<0.001	0.0158	0.0012 J	0.0038	<0.005	<0.005	<0.001		0.0292	0.0126	<0.005	0.0526	0.0262	0.0788
	<0.005	<0.005	<0.005	<0.001	0.00024	0.001 J	0.0017	<0.005	<0.005	<0.001		0.0155	0.0063	<0.005	0.0273	0.0093	0.0366
	<0.05 UJ	<0.05	<0.05	<0.01	0.0177	<0.05	0.159	<0.05	<0.05	<0.01		0.187	0.0663	<0.05 UJ	0.388	0.125	0.512
	<0.1	<0.1	<0.1	<0.02	0.0834 J	<0.1	0.232	<0.1	<0.1	<0.02		0.125	0.0414 J	<0.1	0.246	0.0811	0.328
	<0.1	<0.1	<0.1	<0.02	0.141	<0.1	0.278	<0.1	<0.1	<0.02		0.249	0.0973 J	<0.1	0.547	<0.02	0.555
	<0.005	<0.005	<0.005	<0.001	0.0016 J	<0.005	0.003	<0.005	<0.005	<0.001		0.0184	0.0138	<0.005	0.0456	0.0146	0.0601

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
		<1.25		<1.25	0.095 D	<1.25	<1.25	<1.25	<1.25	<1.25		<1.25	<1.25	<12.5	0.543 J	<1.25	
		0.0225		0.124	0.0803	0.0254	0.0654	0.0026 J	0.0015 J	0.0017		0.21	0.045	<0.005 UJ	0.622	0.0705	
	<0.005 UJ	0.0206 J	<0.005	0.0684 J	0.0795 J	0.0228 J	0.0718 J	<0.005	<0.005	<0.001		0.169 J	0.0293 J	<0.005	0.628 J	0.0707 J	0.699 J
	<0.005	0.0236 J	<0.005	0.0356	0.0868	0.0254	0.0678	<0.005	<0.005	<0.001		0.237	0.0495	<0.005 UJ	0.745	0.09	0.835
	<0.005	0.0189	<0.005	0.0405	0.108	0.0172	0.0438	<0.005 UJ	<0.005	<0.001		0.171	0.0399	<0.005	0.482	0.0614	0.543
	0.0041 J	0.0134	<0.005	0.0604	0.059 J	0.0134	0.0196	<0.005	<0.005	<0.001		0.101	0.025	<0.005 UJ	0.292	0.0416	0.333
	<0.005 UJ	0.0218 J	<0.005 UJ	0.0557 J	0.0472	0.0239 J	0.0407 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.194 J	0.0416 J	<0.005 UJ	0.647 J	0.0841 J	0.731 J
	<0.005	0.0126	<0.005	0.0485	0.0496	0.0137	0.0091	<0.005	<0.005	<0.001		0.145	0.0273	<0.005	0.436	0.0642	0.5
	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.43	0.076 J	0.506
	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.404	0.073 J	0.477
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
		<0.5		<0.5	<0.009	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<5	<1	<0.5	
		0.0108		0.0088	0.0011 J	0.011	0.0321	<0.005	<0.005	<0.001		0.0052	0.0016 J	<0.005 UJ	0.0555	0.0092	
	<0.005 UJ	0.0142	<0.005	0.0113	0.0013 J	0.0151	0.0488	<0.005	<0.005	<0.001		0.0057	0.0014 J	<0.005	0.0502	0.0112	0.0614
	<5	<5	<5	<1	0.0037	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	<0.005	0.0292	<0.005	<0.001	0.012	0.0359	0.0859	<0.005 UJ	<0.005	<0.001		0.0303	0.0082	<0.005	0.167	0.0352	0.202
	<0.005	0.022 J	<0.005	0.0063 J	0.0041 J J	0.0244 J	0.0678 J	<0.005	<0.005	<0.001		0.0114 J	0.0028 J J	<0.005 UJ	0.0598 J	0.0224 J	0.0822 J
	<0.005	0.0188 J	<0.005	<0.001	0.002	0.0272 J	0.0512 J	<0.005	<0.005	<0.001		0.0196 J	0.0054 J	<0.005	0.116 J	0.0251 J	0.141 J
	<0.005	0.0266	<0.005	<0.001	0.0049	0.0406	0.0786	<0.005	<0.005	<0.001		0.0372	0.0107	<0.005	0.245	0.0468	0.292
	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.0986 J	<0.1	0.0986 J
	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	0.0719 J	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.237	<0.1	0.237
	<5	<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5 UJ	<1	<1	<1
	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
		<0.005		0.00136 J	<0.009	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
		0.0019 J		0.0014	<0.0051	0.0013 J	0.0067	<0.005	<0.005	<0.001		0.0025 J	<0.005	<0.005 UJ	0.0051	0.0035	
	<0.005 UJ	<0.005	<0.005	0.0052	0.00003 J J	<0.005	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00059 J
	<0.005	<0.005	<0.005	0.0067	<0.000054 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0096	<0.0001	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.006	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.004	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0053	0.000065 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0056	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0044	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0045	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
		<0.005		0.0122	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.05	<0.01	<0.005	
	<0.005 UJ	<0.005	<0.005	0.0014	0.000036 J J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.00095 J	<0.000087 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.004 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00016	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.00077 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0092 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0023	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

VOCs																	
	<0.005	<0.005	<0.005	0.0036 J	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0035 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.00083 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		0.00039 J	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0076 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0013 J	<0.001	0.0013 J
	<0.005	<0.005	<0.005	0.003 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	0.0051	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	<0.005	<0.005	<0.001	0.00048	0.00096 J	0.0038	<0.005	<0.005	<0.001		0.0095	0.0023 J	<0.005	0.0607	0.0151	0.0758
	<0.005	<0.005	<0.005	<0.001	0.00038	<0.005	0.0015	<0.005	<0.005	<0.001		0.0042 J	0.0012 J	<0.005	0.0289	0.0074	0.0363
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0026 J	<0.005	<0.005	0.0122	0.0037	0.0159
	<0.005	0.0066	<0.005	<0.001	0.0076	0.0156	0.0016	<0.005	<0.005	<0.001		0.0786	0.022	<0.005 UJ	0.114	0.0159	0.13
	<0.005	0.0032 J	<0.005	<0.001	0.132 J	0.0082	0.0076	<0.005	<0.005	<0.001		0.0531	0.0145	<0.005	0.0603	0.0126	0.0729
	<0.005	<0.005	<0.005	0.0917	0.0022 J	<0.005	0.0106	<0.005	<0.005	<0.001		0.0044 J	0.0033 J	<0.005	0.0949	0.0921	0.187
	<0.005	<0.005	<0.005	<0.001	0.0018	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	<0.005	0.0036 J	<0.005	<0.001	0.0331	0.0059	0.0596	<0.005	<0.005	<0.001		0.0374	0.0076	<0.005	0.373	0.207	0.581
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0021	<0.001	0.0021
	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.002 J	0.0014 J	<0.005	0.0018	<0.001	0.0018
	<0.005 UJ	0.00061 J J	<0.005 UJ	<0.001	<0.005	0.0011 J	0.0006 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0016 J	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ
	<0.005	0.0192	0.0092	<0.001	0.11	0.0268	0.0214	<0.005	<0.005	<0.001		0.139	0.0295	<0.005	0.767	0.0237	0.791
	<0.005	0.0032 J	<0.005	<0.001	0.0024 J	0.008	0.0027	<0.005	<0.005	<0.001		0.0103	0.0065	<0.005	0.0214	0.0061	0.0276
	<0.05	<0.05	<0.05	<0.01	0.105	<0.05	0.233	<0.05	<0.05	<0.01		0.358	0.0527	<0.05	1.13	0.108	1.24
	<0.005	0.022	<0.005	0.0016	0.132	0.03	0.175	<0.005	<0.005	<0.001		0.34	0.0715	0.0952	0.684	0.0399	0.724
	<0.025	0.0572	<0.025	<0.005	0.0924	0.101	0.388	<0.025	<0.025	<0.005		0.476	0.0765	<0.025	2.87	0.251	3.12
	<0.05	0.0297 J	<0.05	<0.01	0.0625	0.0486 J	0.197	<0.05	<0.05	<0.01		0.403	0.0474 J	<0.05	1.32	0.0709	1.39
	<0.05	0.0468 J	<0.05	<0.01	0.125	0.0831	0.322	<0.05	<0.05	<0.01		0.385	0.0543	<0.05	2.55	0.176	2.73
	<0.025	0.031	<0.025	<0.005	0.129	0.0466	0.184	<0.025	<0.025	<0.005		0.42	0.0407	<0.025	1.11	0.0252	1.13
	<0.05	0.0405 J	<0.05	<0.01	0.266 J	0.076	0.592	<0.05	<0.05	<0.01		0.309	<0.05	<0.05	1.2	0.104	1.3

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate
0.42 [2]	0.21 [3]	2.1 [2]	0.00013 [2]	0.0002 [1]	0.00018 [2]	0.21 [3]	0.00017 [2]	28 [4]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.0015 [2]	0.0003 [2]	0.007 [3]	0.021 [2]	5.6 [2]	0.14 [2]	
ANALYTICAL RESULTS (mg/L)																				
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.049		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013		<0.0063	<0.0025	<0.0063	<0.013	<0.0063	<0.0063	<0.0063	<0.013	<0.0063	<0.013	<0.0063
<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013 UJ	<0.013	<0.0063	<0.00077 U	<0.0063	<0.013	<0.0063	<0.0063	<0.0063	<0.013	<0.0063	<0.013	<0.0063
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000056 U	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
0.000077 J	0.000035 J	0.000062 J	0.00011	0.0001	0.00011	<0.00011 U	0.00012	<0.01 UJ	<0.01	<0.0051	<0.002	<0.00039 U	<0.01	0.00011	<0.00011 U	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	0.00032 J	<0.011	<0.0053
<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.00099 J	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
<0.000024 U	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0011 U	<0.011	<0.0053 UJ
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0082 J		<0.0048	0.25	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	0.0022 J	<0.0048
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	0.0019 J	<0.0052	<0.0029 U	<0.0052 UJ	<0.01	<0.0001 UJ	<0.0001 UJ	<0.0052	<0.01	0.0016 J J	<0.01	<0.0052 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.000057 J	<0.00011	<0.00011	<0.000053	0.000033 J	0.00004 J	<0.000047 U	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.00083 U	<0.00047 U	<0.011	<0.00011	<0.000047 U	<0.0053	<0.011	<0.0053	0.0035 J	<0.0053
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	0.0055 J	<0.0052
0.000051 J	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00059 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	0.00036 J	0.0045 J	<0.0053
0.000093 J	<0.00011	<0.00011	0.00016	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0034 J	<0.0054
0.00016	0.000019 J	<0.00011	<0.000056	0.000027 J	0.000039 J	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.005 J	<0.0054 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	0.00062 J	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0025 U	0.0064 J	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	0.0084	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	0.000063 J	0.00011	0.00012	0.00013	<0.00013 U	0.00012	<0.01 UJ	<0.01	<0.0052	<0.0004 U	<0.00039 U	<0.01	0.000098 J	<0.00013 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.00067 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.00059 U	<0.01	<0.0051
<0.0001	0.000023 J	0.000037 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057
<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0023 U	0.0063 J	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0102	<0.01	<0.005	<0.0057 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0103	<0.01	<0.005	<0.002 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	0.00011	<0.0001	<0.000052	0.00012	<0.000087 U	<0.00063 U	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0028 U	<0.0052	<0.01	<0.0001	<0.00035 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	0.00003 J	0.00012	0.00012	0.00013	<0.0002 U	0.00015	<0.01 UJ	<0.01	<0.0052	<0.0005 U	<0.00073 U	<0.01	0.00014	<0.00019 U	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0056 J	<0.01	<0.0051	<0.00079 U	0.00039 J	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.0014 J	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000046 U	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.00069 U	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.0012 J	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056 UJ
<0.00012	<0.00012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012	<0.006 UJ
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0009 J	<0.011	<0.0053
<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00079 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0015 U	<0.00049 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00064 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	0.0011 J	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
0.000071 J	0.000066 J	0.000028 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055 UJ
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0044 J J		<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.0019 U	<0.01	<0.005
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0026	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00083 U	<0.01	<0.005
0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002 U	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.0023	0.00077 J	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0011 J	0.00054 J	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.000064 U	<0.00008 U	<0.00009 U	<0.00015 U	0.000094 J	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00014 U	<0.0054	<0.011	<0.0054	<0.011	<0.0054
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0029 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	0.000073 J	<0.0001	<0.01 UJ	<0.01	<0.0051	0.00054 J	<0.0051	<0.01	<0.0001	0.000066 J	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	0.00052 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01 UJ		<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00087 U	<0.01	<0.005
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01 UJ		<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.001 U	<0.01	<0.0051
<0.000095 UJ	0.000098 J	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000095 UJ	<0.0095	<0.0095	<0.0048	0.0023	<0.0048	<0.0095	<0.000095 UJ	<0.000095 UJ	<0.0048	<0.0095	<0.00078 U	<0.0095	<0.0048
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0024	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00096 U	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.00075 U	<0.0002 U	<0.00019 U	<0.00007 U	<0.00023 U	<0.011 UJ	<0.011	<0.0053	0.00077 J	<0.0053	<0.011	<0.0008 U	<0.000031 U	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
<0.00011	<0.00011	<0.00011	<0.000055	<0.00015 U	<0.00011 U	<0.00028 U	0.0001 J	<0.011 UJ	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.00011	<0.00027 U	<0.0055	<0.011	<0.0055	<0.011	<0.0055
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00049 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	0.00057 J	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00084 U	<0.011	<0.0053
<0.0001 UJ	0.000046 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0025	0.0064	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00063 U	<0.01	<0.005
<0.00011	<0.00011	<0.00011	0.00016 B	0.00013 B	0.00014 B	0.000041 J	0.00016 B	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	0.00015 B	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00046 U	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.051		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.001 U	<0.011	<0.0053
<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	0.0027	0.0069	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.00085 U	<0.011	<0.0055
<0.00011	<0.00011	<0.00011	<0.00038 U	<0.00015 U	<0.00017 U	<0.000049 U	<0.00019 U	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00039 U	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053 UJ
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01 UJ	<0.0052
<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0055	<0.011	<0.0055	<0.011	<0.0055
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0044 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	0.00022 J	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.005 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.007 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.003 U	<0.011	<0.0053
0.00011 J	<0.00011 UJ	0.000031 J J	<0.000054 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0054	<0.0032 U	<0.0071 U	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0054	<0.011	<0.00097 U	<0.011	<0.0054
0.00011 J	<0.00011 UJ	0.000034 J J	<0.000055 UJ	0.000018 J J	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0035 U	<0.007 U	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0055	<0.011	<0.0055
0.0001 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.000018 J	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054 UJ
<0.00026 U	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ	<0.005
0.00025	<0.0001	<0.0001	<0.00005	<0.000024 U	<0.00005	<0.0001	<0.0001		<0.01 UJ	<0.005	<0.002	0.00049 J	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00027	<0.00011	<0.00011	<0.000056	<0.00003 U	<0.000056	<0.00011	<0.00011		<0.011 UJ	<0.0056	0.00044 J	0.00048 J	<0.011	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056
0.00028	<0.0001	<0.0001	0.00011	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00071 J	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00024	0.000037 J	0.000022 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0006 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.00058 U	<0.01	<0.0051
0.00031	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	0.0015 J	<0.0058	<0.012	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
0.00034	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.0007 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
0.00073	0.00011	0.000059 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00061 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
0.00066	0.000093 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00055 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052 UJ
0.0012	0.00015	0.000089 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.00083 J	<0.011	<0.0054	<0.011	<0.0054
0.0012	0.00016	0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00088 J	<0.011	<0.0053	<0.011	<0.0053
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.006 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.018	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	0.00086 J	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.0025 U	0.0233	<0.005
<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011		<0.0057	0.0012 J	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.0125	0.0299	<0.0057
0.00035 J	<0.00011 UJ	0.000063 J J	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0031 U	<0.0055	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0018 U	0.0225	<0.0055
0.00029 J	<0.00011 UJ	0.000054 J J	<0.000056 UJ	<0.00011 UJ	<0.000056 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0056	<0.0034 U	<0.0056	<0.011	<0.00011 UJ	<0.00011 UJ	<0.0056	<0.011	<0.0011 U	0.0232	<0.0056
0.00029	<0.00011	0.000067 J	0.00013 B	0.00016 B	0.00016 B	0.000048 J	0.00017 B	<0.011 UJ	<0.011	<0.0054	0.0019 J	<0.0054	<0.011	0.000099 JB	<0.00011	<0.0054	<0.011	<0.0054	0.0228	<0.0054 UJ
0.00027	<0.00011	0.000062 J	0.00012 B	0.00019 B	0.00018 B	0.000058 J	0.00021 B	<0.011 UJ	<0.011	<0.0055	0.0013 J	<0.0055	<0.011	0.000099 JB	<0.00011	<0.0055	<0.011	<0.0055	0.0213	<0.0055 UJ
<0.00023 U	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	0.0383 J	<0.0048
0.00038 J	<0.00053	<0.00053	<0.00026	<0.00053	<0.00026	<0.00053	<0.00053		<0.011 UJ	<0.0053	0.00052 J	0.00042 J	<0.011	<0.00053	<0.00053	0.0006 J	<0.011	<0.0053	0.015	<0.0053
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0204	<0.011	<0.0053	0.00053 J	<0.0053	<0.011	<0.00011	<0.00011	0.00044 J	<0.011	<0.0053	0.0595	<0.0053
<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00047 J	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0557	<0.005
0.00023	0.00013	0.000055 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00051 J	<0.0054	<0.011	<0.00011	<0.00011	0.00035 J	<0.011	<0.0016 U	0.015	<0.0054
0.0002	0.00029	0.000071 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00043 J	<0.0056	<0.011	<0.00011	<0.00011	0.0004 J	<0.011	<0.0018 U	0.0158	<0.0056
0.00026	0.00011	0.00044	<0.00087 U	0.00053 B	0.00057 B	0.00058 B	0.00064 B	<0.011	<0.011	<0.0053	0.0012 J	0.00086 J	<0.011	0.00066 B	0.00059 B	<0.0021	<0.011	<0.0053	0.0085 J	<0.0053
0.00017	0.000085 J	0.000029 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00089 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.019	<0.0056 UJ
0.00018	0.000059 J	0.000072 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0023	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0358	<0.0053
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.001 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.001 U	<0.011	<0.0053
<0.000097 UJ	<0.000097 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000097 UJ	<0.0097	<0.0097	<0.0049	<0.0019	<0.0049	<0.0097	<0.000097 UJ	<0.000097 UJ	<0.0049	<0.0097	<0.0018 U	<0.0097	<0.0049
<0.00011	<0.00011	<0.00011	<0.00021 U	<0.00013 U	<0.00015 U	<0.000046 U	<0.00018 U	<0.01 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.01 UJ	<0.0002 U	<0.00011	<0.0054	<0.01 UJ	<0.0054	<0.01 UJ	<0.0054 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000057	0.000058 J	0.000051 J	<0.000096 U	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.00085 U	<0.00037 U	<0.011	<0.00011	<0.000078 U	<0.0057	<0.011	<0.0057	<0.011	<0.0057
											0.0016 J J	0.00045 JB J								
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00043 U	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
0.000068 J	0.000064 J	0.00006 J	<0.000054	<0.00011	0.000026 J	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054 UJ
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0016 UJ	<0.01 UJ	<0.0052 UJ

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01		<0.0051	0.00068 J	<0.0051	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.001 U	<0.01	<0.0051
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	0.00071 J	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.0012 U	<0.01	<0.005
<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095 UJ	<0.0095	<0.0048	<0.00051 U	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	<0.00025 U	<0.00013 U	<0.00014 U	<0.000039 U	<0.00017 U	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.00027 U	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	0.000027 J	0.000037 J	0.000031 J	0.000043 J	<0.000042 U	<0.00011	<0.011 UJ	<0.011	<0.0053	0.0255	<0.0013 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00067 U	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0018 U	<0.011	<0.0054 UJ
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	0.00073 J	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.001 U	<0.01	<0.0052
<0.000095 UJ	<0.000095 UJ	<0.000095 UJ	<0.000042 UJ	<0.000095 UJ	0.000025 J J	0.000022 J J	0.000014 J J	<0.0095	<0.0095	<0.0048	<0.0028 U	<0.0048	<0.0095	0.000037 J J	<0.000095 UJ	<0.0048	<0.0095	<0.0009 U	<0.0095	<0.0048
<0.00011	<0.00011	<0.00011	0.00013 B	0.00012 B	0.00013 B	0.000035 J	0.00014 B	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	0.00013 B	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056 UJ
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011 UJ	<0.0054
		0.000022 J J					0.000065 J J													
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051		<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00012	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012 UJ	<0.00012	<0.012	<0.012	<0.0058	<0.00056 U	<0.0058	<0.012	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00042 U	<0.011	<0.0054
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.002 UJ	<0.005 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.002 UJ	<0.01 UJ	<0.005 UJ	<0.01 UJ	<0.005 UJ
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00077 U	<0.01	<0.005
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	0.000019 J J	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	0.000072 B	0.00014 B	0.00014 B	0.000053 J	0.00019 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01 UJ	0.000072 JB	0.000031 JB	<0.005	<0.01 UJ	<0.005	<0.01 UJ	<0.005 UJ
<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ	<0.0048
<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ	<0.0048
<0.00011	<0.00011	<0.00011	<0.000054	<0.00016 U	<0.00013 U	<0.00021 U	0.00013	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00029 U	<0.011	<0.00011	<0.00021 U	<0.0054	<0.011	<0.0054	<0.011	<0.0054
<0.00011	<0.00011	<0.00011	<0.000056	<0.000039 U	<0.00004 U	<0.000067 U	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.00033 U	<0.011	<0.00011	<0.000051 U	<0.0056	<0.011	<0.0056	<0.011	<0.0056
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.0019 U	0.00029 J	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.00077 U	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	0.000026 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051 UJ
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.0027 U	<0.01	<0.0052
<0.000099 UJ	0.000067 J J	0.000059 J J	0.000042 J J	0.000016 J J	<0.00005 UJ	<0.000099 UJ	<0.000099 UJ	<0.0099	<0.0099	<0.005	<0.0027 U	<0.005	<0.0099	0.000059 J J	<0.000099 UJ	<0.005	<0.0099	<0.00086 U	<0.0099	<0.005
<0.0001	<0.0001	0.00011	0.000037 J	0.000039 J	0.000037 J	0.000053 J	0.000036 J	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	0.000036 J	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011 UJ	<0.0056
<0.00011	0.00014	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0087 J J	<0.011	<0.0053	<0.0007 U	<0.0007 U	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.0001 J	0.00019	0.000063 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
0.00046	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00042 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	0.00084 J	<0.0052	<0.01	<0.0052
0.00095	0.00015	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00049 J	<0.0053	<0.011	<0.00011	<0.00011	0.00076 J	0.00096 J	<0.0053	<0.011	<0.0053
0.00074	0.00008 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.0003 J	<0.01	<0.005	<0.01 UJ	<0.005
0.00092	0.00013	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
0.00068	0.000098 J	<0.00011	0.00013	<0.00011	0.000054	0.000053 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
0.00018	<0.0001	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	0.0031 J	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	0.0146	<0.0052 UJ
0.00018	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.0033 J	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	0.0149	<0.0053 UJ
0.00018	0.000049 J J	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269	<0.0053
<0.0001	<0.0001 UJ	<0.0001	<0.000052	<0.0001	0.000057	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
0.00018	0.000049 J J	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269	<0.0053
<0.0001	<0.0001 UJ	<0.0001	<0.000052	<0.0001	0.000057	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	<0.002	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.002 U	<0.01	<0.005
<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000054 UJ	0.0001 J J	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.01	<0.01	<0.005	<0.0024 U	<0.005 UJ	<0.01	0.000019 J J	<0.00011 UJ	<0.005	<0.01	<0.005 UJ	<0.01	<0.005 UJ
<0.0001	<0.0001	<0.0001	0.000079 B	0.00014 B	0.00015 B	0.000053 J	0.00017 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	0.000081 JB	0.00002 JB	<0.005	<0.01	<0.005	<0.01	<0.005 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.000024 U	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0045 J	<0.01	<0.0051	0.0133	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011	<0.0057 UJ
<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0022	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00017	<0.0001	<0.0001	<0.000052	0.000022 J	<0.000052	<0.0001	<0.0001		<0.01 UJ	<0.0052	<0.0021	<0.00048 U	<0.01	<0.0001	<0.0001	0.00035 J	<0.01	<0.0052	<0.01	<0.0052
0.00015	<0.00011	<0.00011	<0.000054	0.000067 J	0.000061	0.00011	0.000071 J		<0.011 UJ	<0.0054	<0.0022	<0.00035 U	<0.011	<0.00011	0.000086 J	0.00033 J	<0.011	<0.0054	<0.011	<0.0054
0.00036	0.000095 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
0.00069	0.00019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.0001	<0.0001	0.001 J	<0.01	<0.01	0.004 J	<0.01
0.00054	0.00014	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.001 J	<0.01	0.00073 J	0.0024 J	<0.0051
0.00073	0.00021	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	0.0017 J	<0.01	<0.0052	<0.01	<0.0052

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
0.0007	0.00013	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.00064	<0.0001	0.00011	<0.000051	0.000021 J	<0.000051	<0.0001	<0.0001		<0.01 UJ	<0.0051	<0.00066 U	<0.00053 U	<0.01	<0.0001	<0.0001	0.00064 J	<0.01	<0.0051	<0.01	<0.0051
0.00057	0.0001	<0.0001	<0.00011 U	<0.00012 U	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.00058	0.000087 J	0.00013	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00051 J	<0.01	<0.0014 U	<0.01	<0.0051
0.0011	<0.0001	0.00012	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00066 J	<0.01	<0.0051	<0.01 UJ	<0.0051
0.00039	0.000083 J	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0044	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
0.00053	0.000088 J	0.0001 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
0.00055	<0.00054	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00054	<0.00054	<0.0054	<0.011	<0.0054	<0.011	<0.0054
0.00056	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00043 J	<0.00043 U	<0.01	<0.0001	<0.0001	0.00087 J	<0.01	<0.0051	0.0045 J	<0.0051
0.00033	<0.0001	<0.0001	0.00011	0.00012	<0.000052	<0.0001	<0.0001	<0.01	<0.01	0.0008 J	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.00056	0.0001	0.000073 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00079 J	<0.01	<0.00096 U	0.0029 J	<0.005
0.00051	0.0001	0.000064 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00073 J	<0.01	<0.001 U	0.0029 J	<0.005
0.00053	<0.0001	0.000061 J	<0.00005	<0.0001	<0.00005	0.00005 J	<0.0001	<0.01 UJ	<0.01	<0.005	0.00052 J	<0.005	<0.01	<0.0001	0.000049 J	0.0006 J	<0.01	<0.005	<0.01 UJ	<0.005
0.00061	0.00013	0.000076 J	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	0.0023 J J	<0.0059
0.00063	0.00012	0.000073 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
0.0011	<0.000097	<0.000097	<0.000049	<0.000097	<0.000049	<0.000097	<0.000097	<0.0097	<0.0097	<0.0049	0.003	<0.0049	<0.0097	<0.000097	<0.000097	<0.0049	<0.0097	<0.0049	<0.0097	<0.0049
0.001	<0.00011	<0.00011	0.000039 J	0.000051 J	0.000032 J	0.000047 J	<0.00011		<0.011 UJ	<0.0053	0.0361 J	<0.00059 U	<0.011	<0.00011	<0.00011	0.0026 J	<0.011	<0.0053	<0.011	<0.0053
0.00092	<0.00011	<0.00011	0.000036 J	0.000036 J	<0.000053	<0.00011	<0.00011		<0.011 UJ	<0.0053	0.024 J	<0.0053	<0.011	<0.00011	<0.00011	0.0023 J	<0.011	<0.0053	<0.011	<0.0053
0.00059	0.00019	0.00057 J	0.00017	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.0017 J	<0.01	<0.0051	<0.01	<0.0051
0.00044	0.00015	<0.0001 UJ	0.00015	0.000032 J	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.00086	0.00029	0.000094 J	0.00024	0.00011	0.000064	0.000043 J	<0.0001	<0.01	<0.01	<0.005	0.00043 J	<0.005	<0.01	0.0001	<0.0001	0.0022	<0.01	<0.005	<0.01	<0.005
0.00098	0.0003	0.00011	0.00021	0.000098 J	0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00042 J	<0.005	<0.01	0.000099 J	<0.0001	0.0025	<0.01	<0.005	<0.01	<0.005
0.00093	0.00024	0.00083	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0103	<0.0054	<0.011	<0.00011	<0.00011	0.002 J	<0.011	<0.0054	<0.011	<0.0054 UJ
0.0011	0.0006	<0.00011	0.00038	0.00022	0.00012	0.00012	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.00039	0.000068 J	0.0038	<0.011	<0.0054	<0.011	<0.0054
0.0015	0.0005	<0.00011	0.0003	0.00019	0.000095	0.000074 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	0.00032	<0.00011	0.0044	<0.011	<0.0054	<0.011	<0.0054
0.00077	0.00012	0.00046	0.00019	<0.00011	0.000073	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0028	<0.0053	<0.011	0.00034	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
0.00036	<0.00011	0.00025	0.000055 J	0.000038 J	0.000037 J	0.000052 J	<0.00011		0.0011 J	<0.0057	<0.00079 U	<0.0011 U	<0.011	0.000085 J	<0.00011	<0.0057	<0.011	<0.0057	0.0133	<0.0057
0.00037	<0.0001	0.00015	0.00005 J	0.000029 J	0.000027 J	<0.0001	<0.0001		0.00091 J	<0.0051	<0.002	<0.00061 U	<0.01	0.000074 J	<0.0001	0.00042 J	<0.01	<0.0051	0.0108	<0.0051
0.00022	<0.0001	0.000095 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0161	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0085 J	<0.005
0.00042	0.0001 J	0.00014	0.00021	0.000036 J	0.000047 J	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00036 J	<0.011	<0.0053	0.0088 J	<0.0053
0.00043	<0.00011	0.000086 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.00031 J	<0.011	<0.0053	0.0102 J J	<0.0053
0.00042	<0.0001	0.000084 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	0.00029 J	<0.01	<0.0052	0.0092 J J	<0.0052
0.00047	<0.0001	0.00012	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0041	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0581	<0.0052 UJ
0.00057	0.00013	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0831 J	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0919	<0.0054
0.00058	0.00012	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0518 J	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0914	<0.0053
0.0018	<0.0001	<0.0001	<0.000095 U	<0.0001	<0.000088 U	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.00011 U	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00078	<0.0001	<0.0001	<0.00005	<0.0001	0.000024 J	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.00053 U	<0.005	<0.01	<0.0001	<0.0001	0.0018 J	<0.01	<0.005	<0.01	<0.005
0.00073	0.00025	<0.00011	0.00018	0.000066 J	0.00008	0.000066 J	<0.00011	<0.011	<0.011	<0.0053	0.00075 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
0.00078	0.00022	0.0006	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.0019 J	<0.01	<0.005	<0.01 UJ	<0.005
0.00074	0.00034	<0.000055 U	<0.000053	<0.00011	<0.000028 U	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.0018 J	<0.011	<0.0053	<0.011	<0.0053 UJ
0.0011	0.00028	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	0.0025	<0.011	<0.0053	<0.011	<0.0053
0.00033	0.00012	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095		<0.0095 UJ	<0.0048	<0.0019	<0.00043 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
0.00016	0.000056 J	0.000041 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0012 U	0.0039 J	<0.005
0.00023	<0.0001	0.000044 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00044 J	<0.0052	<0.01	<0.0001	<0.0001	0.00031 J	0.001 J	<0.0052	0.008 J J	<0.0052
0.00019	0.0001	0.000063 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	0.0028 J	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0021 J	<0.0051
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																				
<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098 UJ		<0.0049	<0.002	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.0098	<0.0014 U	<0.0098	<0.0049
0.00026 J	<0.0001 UJ	0.000035 J J	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	0.00035 J	<0.01	<0.00073 U	<0.01	<0.005
0.00036	<0.0001	0.000058 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.003	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.0029 U	<0.01	<0.005
0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0075	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00014	<0.000095	0.000032 J	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.006 U	<0.00053 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	<0.0001 U	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0029	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
0.00015	<0.00011	0.000048 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0032 J	<0.011	<0.0054	0.0153	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
<0.00022 U	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0001	<0.0001	0.00027 J	<0.01	<0.0052	<0.01	<0.0052
0.00029 B	<0.0001	0.000061 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
0.00016	<0.0001	0.000028 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0099	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
0.00014	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.011	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01	<0.0052 UJ
0.00023	<0.0001	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
0.00021	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00086 U	<0.011	<0.0053
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.001 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0021 U	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0103	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.000095	0.000028 J	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.0033 U	<0.00033 U	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	<0.000051	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	0.000087 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0036	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.00051 U	<0.011	<0.0054
<0.0001	0.000073 JB	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0017 J	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.000047 U	0.000058 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00057 J	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
0.00014	0.000072 J	0.00013	0.00022	0.00011	0.00013	0.00012	0.00012	<0.011	<0.011	<0.0053	0.0055	0.0032 J	0.0013 J	0.00012	0.00012	<0.0021	<0.011	<0.0053 UJ	0.0021 J	0.00024 J J
<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	<0.0051
<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.001 U	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01 UJ		<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00097 U	<0.01	<0.0051
<0.0001 UJ	0.000041 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0022 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0092	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.0015 U	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.000051	0.000019 J	0.000027 J	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0096 U	<0.00037 U	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.00011	<0.00011	<0.00011	<0.00012 U	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.008	<0.0053	<0.011	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053
0.000089 J	0.000022 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0043	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.00046 U	<0.01	<0.0052
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00081 J	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.0049	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011	<0.0055 UJ
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005 UJ
<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0027 U	<0.005	<0.01	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.000015 U	<0.0001	<0.005	<0.01	<0.0018 U	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054
<0.0001	<0.0001	<0.0001	<0.0001 U	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051
0.00017	0.000051 J	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.0021 U	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	0.0053	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0048
<0.0001	<0.0001	<0.0001	<0.000051	0.000055 J	0.00005 J	0.000058 J	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0013 U	<0.00044 U	<0.01	<0.0001	0.000053 J	<0.0051	<0.01	<0.0051	<0.01	<0.0051
<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0015 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.0001	0.000029 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0039	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0059	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011	<0.0053 UJ
<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
0.000023 J	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00065 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	0.0016 J	<0.011	<0.00011	<0.00011	<0.0022	<0.011	0.0033 J	<0.011	<0.0054
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ	<0.0053
0.00025	0.000059 J	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.002	<0.01	<0.005 UJ	<0.01	<0.005 UJ
0.00016	<0.00011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.0054
0.00027	0.000072 J	0.00011	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	0.00027 J	<0.01	<0.005	<0.01	<0.005
0.00039 B	<0.00011	<0.00018 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.00042 J	<0.0053	<0.00051 U	<0.0053	<0.011	<0.00011	<0.00011	0.00036 J	<0.011	0.0012 J	0.003 J	<0.0053
0.000054 J	<0.0001	0.00005 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0045	<0.0052	<0.01	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052
<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	<0.0053 UJ
0.000066 J	0.000018 J	0.000033 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011	<0.0055
0.00079	0.00012	0.00017	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0025	<0.0051	<0.01	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	0.0109	<0.0051
0.00047	<0.00011	0.00014	<0.000056	0.000032 J	0.000035 J	0.000069 J	<0.00011		<0.011 UJ	<0.0056	<0.0017 U	<0.00062 U	<0.011	<0.00011	0.00005 J	0.00029 J	<0.011	<0.0056	0.0095 J	<0.0056
0.00032	<0.0001	0.000081 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
0.00044	0.000082 J	0.0001 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.00011	<0.00011	0.0003 J	<0.011	<0.0054	0.0153	<0.0054
0.00044	<0.0001	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	0.00054 J	<0.005	<0.01	<0.0001	<0.0001	0.00029 J	<0.01	<0.005	0.0028 J J	<0.005
0.0005	0.000093 J	<0.00013 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0065 J	<0.0053 UJ
0.00063	0.00009 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0001	<0.0001	0.00048 J	<0.01	<0.0051	<0.01	<0.0051

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																		
Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
0.7 [2]	0.14 [2]	0.28 [2]	0.28 [2]	0.00006 [2]		0.00043 [2]	1.4 [2]	0.49 [3]	0.028 [4]	0.35 [2]	0.35 [3]		0.0035 [2]	0.0006 [3]	0.0032 [2]	0.001 [2]	0.21 [3]	0.1 [1]	0.21 [2]
ANALYTICAL RESULTS (mg/L)																			
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0063	<0.0063	<0.0063	<0.0063	<0.0063		<0.0063	<0.0063		<0.0063	<0.013	<0.013	<0.013	<0.0063		<0.0063	<0.013	<0.0063	<0.0063	<0.0063
<0.00085 U	<0.0063	<0.0063	<0.0063	<0.0063		<0.0063	<0.0063		<0.0063	<0.013	<0.013	<0.013	<0.0063	<0.0063 UJ	<0.0063	<0.013	<0.0063	<0.0063 UJ	<0.0063
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0051	<0.0051	0.00011	0.000059 J	<0.0051		<0.00012 U	<0.0051	<0.0002	0.000098 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000098	<0.0051	0.00009 J
<0.00054 U	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
<0.00043 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011
<0.0057	<0.0057	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000021 U	<0.0052	<0.0001
<0.0012 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		0.014	<0.01	0.007 J	<0.019	<0.01		<0.01	<0.01	<0.01	0.006 J	<0.01
<0.0048	<0.0048	<0.0048	<0.0048	<0.0048		<0.0048	<0.0048		0.0065	0.0028 J	0.0035 J	<0.0095	<0.0048		<0.0048	<0.0095	<0.0048	<0.0048	<0.0048
<0.001 U	<0.0052	<0.0001 UJ	<0.0001 UJ	<0.0052		<0.0001 UJ	<0.0052	0.0049 J J	0.0118 J	0.0062 J	0.0119	<0.01	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.000052 UJ	0.0057	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0098	0.0167	<0.01	0.0193 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0086	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0096	0.0169	<0.01	0.0144 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0075	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0141	0.0299	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005 UJ	<0.0001
0.00056 J	<0.0053	<0.00011	0.000052 J	<0.0053		<0.000054 U	<0.0053	0.0107	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000066	<0.0053	<0.00011
<0.0005 U	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0105	0.021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
<0.00047 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0097	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00004 J	<0.0053	0.000039 J
<0.0054	<0.0054	0.000061 J	0.00011	<0.0054		<0.00011	<0.0054	0.0091	0.0182	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	<0.0054	0.000046 J
<0.0056	<0.0056	0.00004 J	<0.00011	<0.0056		<0.00011	<0.0056	0.008	0.0162	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000044 J	<0.0056	0.000039 J
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.012	0.0256	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
<0.0014 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00019 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.00061 U	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	0.00029	0.00017 J	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048 UJ	<0.000095
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
<0.0052	<0.0052	0.000098 J	<0.0001	<0.0052		<0.00015 U	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000095	<0.0052	0.000078 J
<0.00047 U	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.00066 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
0.0025 J	<0.005	0.000047 J	0.000052 J	<0.005		<0.0001	<0.005	<0.0002	0.000081 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000068	<0.005 UJ	0.000036 J
<0.0057	<0.0057	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009
<0.0052	<0.0052	<0.0052	<0.0052	<0.0052		<0.0052	<0.0052		<0.0052	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	<0.0052	<0.0052	<0.0052
<0.0012 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00033 J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00044	0.00029	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00031	0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.00043 U	<0.0052	0.00028	0.00026	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
0.00077 J	<0.0052	0.000047 J	<0.0001	<0.0052		<0.00018 U	<0.0052	0.0006	0.00059	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000057	<0.0052	0.000065 J
<0.00062 U	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00032	0.00025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.00061 U	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
0.00075 J	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00054	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0018 J	<0.0001
0.00057 J	<0.0051	<0.000047 U	<0.0001	<0.0051		<0.0001	<0.0051	0.00049	0.0004 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000031 U	0.0023 J	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00025	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.0056	<0.0056	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.0608	<0.00011
<0.006	<0.006	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	0.000099 J	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	0.0665	<0.00012
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00022	0.000082 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000054	0.11	<0.00011
<0.00062 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000076 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.103	<0.00011
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
<0.0009 U	<0.0053	<0.00011 UJ	<0.00011 UJ	<0.0053		<0.00011 UJ	<0.0053	<0.0053 UJ	0.00004 J J	<0.011	<0.011	<0.011	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.000053 UJ	<0.0053 UJ	<0.00011
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00056	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00075	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00052 J	<0.0053	0.00041	<0.00011	<0.0053		<0.00011	<0.0053	0.00051 J	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0016	<0.00021	<0.011	<0.011	<0.011	<0.0053	0.00078 J	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0005 U	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	0.00072 J	0.0117	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
0.00057 J	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.003	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000025 U	0.0015 J	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.0091	0.000084 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0055	<0.0055	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0043	0.000084 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000048 J	<0.0055	<0.00011
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.004	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
0.00081 J	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
<0.0016 U	<0.005	<0.0001 UJ	0.00025 J	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00053 J	0.00093 J	<0.0001	<0.0001	<0.0052		0.0015 J	<0.0052	<0.00021 UJ	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
0.00069 J	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001 UJ	<0.0051	<0.0002 UJ	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00015 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00049 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		0.000072 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
0.0018 J	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.000084	<0.0053 UJ	0.000053 J
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01	<0.0051		<0.0051	<0.01	<0.0051	<0.0051	<0.0051
<0.0012 U	<0.0048	<0.000095 UJ	<0.000095 UJ	<0.0048		<0.000095 UJ	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	<0.000048 UJ	<0.0048	<0.000095
<0.0014 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.00047 U	<0.0053	<0.00021 U	<0.00011	<0.0053		<0.000057 U	<0.0053	<0.00021	<0.000022 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000044 U	<0.0053 UJ	<0.00023 U
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00055 J	<0.0055	<0.00011	<0.00011	<0.0055		<0.00028 U	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
0.00039 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.0007 J	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
0.00079 J	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
0.0026 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.0012 J	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.0002 J	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
<0.0013 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.0004 U	<0.0053	0.000024 JB	<0.00011	<0.0053		0.000025 J	<0.0053	<0.00021	0.000017 JB	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00002 JB	<0.0053 UJ	0.000023 JB
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00011 U	<0.005	<0.0001
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.001 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
0.0022 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00077 J	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
0.00071 J	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
<0.0015 U	<0.0055	<0.00011 UJ	<0.00011 UJ	<0.0055		<0.00011 UJ	<0.0055	<0.0055 UJ	<0.00022 UJ	<0.011	<0.011	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.000055 UJ	<0.0055	<0.00011
<0.00046 U	<0.0053	<0.000067 U	<0.00011	<0.0053		<0.000033 U	<0.0053	<0.00021	<0.000018 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00004 U	<0.0053 UJ	<0.000063 U
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
0.00047 J	<0.0055	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.000085 U	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
0.00047 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.0005 U	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000052	<0.005	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00069 J	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																		
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	0.034	<0.01
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	0.032	<0.01
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		0.0023 J	<0.011	0.00099 J	<0.011	<0.0053		<0.0053	<0.011	<0.0053	0.0737	<0.0053
<0.0017 U	<0.0054	<0.00011 UJ	0.0001 J J	<0.0054		<0.00011 UJ	<0.0054	0.0026 J J	0.0049 J	<0.011	0.00082 J	<0.011	<0.0054 UJ	<0.0054	<0.0054	<0.011	0.00017 J	0.0774	0.000044 J
<0.0018 U	<0.0055	<0.00011 UJ	0.000097 J J	<0.0055		<0.00011 UJ	<0.0055	0.0026 J J	0.0047 J	<0.011	0.00078 J	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	0.00017 J	0.0793	0.000051 J
<0.00044 U	<0.0054	0.00003 J	0.000066 J	<0.0054		<0.00011	<0.0054	0.0024	0.003	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000082 B	<0.0513 UJ	0.00003 J
<0.005	<0.005	<0.0001	<0.00028 U	<0.005		<0.0001	<0.005	<0.0043 U	<0.0059 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00033 U	0.0702	<0.0001
0.00045 J	<0.005	<0.0001	0.00018	<0.005		<0.0001	<0.005	0.0055	0.0069	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	0.00029	0.15	<0.000042 U
<0.0056	<0.0056	<0.00011	0.0002	<0.0056		<0.00011	<0.0056	0.0057	0.0071	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00028	0.165	<0.000043 U
<0.00095 U	<0.005	0.000039 J	0.00019	<0.005		<0.0001	<0.005	0.0075	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00028	0.0944	<0.0001
<0.0051	<0.0051	<0.0001	0.00016	<0.0051		<0.0001	<0.0051	0.0055	0.0065	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00019	0.0576	<0.0001
<0.0058	<0.0058	<0.00012	0.00023	<0.0058		<0.00012	<0.0058	0.0061 J	0.0077	<0.012	<0.012	<0.012	<0.0058	<0.0058 UJ	<0.0058	<0.012	0.00036	0.0615 J	<0.00005 U
<0.0056	<0.0056	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.008 J	0.0098	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00037	0.0812 J	<0.00005 U
<0.0053	<0.0053	0.00004 J	0.00061	<0.0053		<0.00011	<0.0053	0.0187	0.0224	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00086	0.0865 J	0.000089 J
<0.0052	<0.0052	<0.0001	0.00057	<0.0052		<0.0001	<0.0052	0.0173	0.0207	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00078	0.0735 J	0.000078 J
<0.0054	<0.0054	0.000039 J	0.00081	<0.0054		<0.00011	<0.0054	0.0271	0.0351	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.147	0.00015
<0.0053	<0.0053	0.000068 J	0.00087	<0.0053		<0.00011	<0.0053	0.0274	0.0357	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0015	0.148	0.00016
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		0.005 J	<0.01	0.023	<0.019	<0.01		<0.01	<0.01	<0.01	0.053	<0.01
<0.005	0.0004 J	<0.005	<0.005	<0.005		<0.005	<0.005		0.0069	0.0195	0.0502	<0.01	<0.005		<0.005	<0.01	<0.005	0.119 J	<0.005
<0.0057	<0.0057	<0.0057	<0.0057	<0.0057		<0.0057	<0.0057		0.0075	0.0228	0.0587	<0.011	<0.0057		<0.0057	<0.011	<0.0057	0.171 J	<0.0057
<0.0014 U	<0.0055	0.00003 J J	0.00023 J	<0.0055		<0.00011 UJ	<0.0055	0.0053 J J	0.0075 J	0.0108 J	0.0243	<0.011	0.0041 J J	<0.0055	<0.0055	<0.011	0.000086 J	0.209	0.000028 J
<0.0021 U	<0.0056	<0.00011 UJ	0.00021 J	<0.0056		<0.00011 UJ	<0.0056	0.0055 J J	0.0089 J	0.0105 J	0.0249	<0.011	<0.0056 UJ	<0.0056	<0.0056	<0.011	0.00012 J	0.208	<0.00011
<0.0054	0.00077 J	0.000031 JB	0.00034	<0.0054		0.000032 J	<0.0054	0.0055	0.0068	0.0205	0.0486	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00014 B	0.0972 J	0.000031 JB
<0.00038 U	0.00054 J	0.000022 JB	0.0003	<0.0055		0.000042 J	<0.0055	0.0052	0.0064	0.0177	0.0423	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00011 B	0.0906 J	0.000023 JB
<0.0048	<0.0048	<0.000095	<0.00032 U	<0.0048		<0.000095	<0.0048	<0.0094 U	<0.0119 U	0.0152	0.0242	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.134	<0.000095
<0.0053	<0.0053	<0.00053	0.00074	<0.0053		<0.00053	<0.0053	0.0165	0.0204	0.0044 J	0.0121	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00041	0.375	<0.00053
<0.00063 U	<0.0053	<0.00011	0.00024	<0.0053		<0.00011	<0.0053	0.0085	0.0099	0.0302	0.0657	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00014	0.258 J	<0.00011
<0.005	<0.005	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0086	0.0102	0.0275	0.0569	<0.01	<0.005	<0.005	<0.005	<0.01	0.00014	0.12 J	<0.0001
<0.0054	<0.0054	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0091	0.0109	0.0075 J	0.0231	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015	0.136	<0.00011
<0.0056	<0.0056	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.0092	0.0111	0.0081 J	0.024	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00014	0.134	<0.00011
0.00082 J	0.00063 J	0.00059 B	0.00053	<0.0053		0.00059 B	<0.0053	0.0097	0.0112	0.0058 J	0.0158	<0.011	<0.0053	<0.0053 UJ	0.00052 J	0.003 J	0.00057	0.165 J	0.00054 B
<0.0056	<0.0056	<0.00011	0.00041	<0.0056		<0.00011	<0.0056	0.011	0.0129	0.0332	0.102	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00016	0.0997 J	<0.00011
0.0013 J	<0.0053	0.000056 J	0.00032	<0.0053		<0.00011	<0.0053	0.0091	0.0113	0.0388	0.084	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00019	0.253 J	0.000042 J
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
0.00064 J	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
<0.00046 U	<0.0049	0.00002 J J	<0.000097 UJ	<0.0049		<0.000097 UJ	<0.0049	<0.0049 UJ	<0.00019 UJ	<0.0097	<0.0097	<0.0097	<0.0049 UJ	<0.0049	<0.0049	<0.0097	<0.000049 UJ	<0.0049	<0.000097
<0.0054	<0.0054	<0.000044 U	<0.00011	<0.0054		<0.000031 U	<0.0054	<0.00022	<0.00022	<0.01 UJ	<0.01 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.01 UJ	<0.00003 U	<0.005 UJ	<0.000046 U
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00048 J	<0.0057	<0.00011	<0.00011	<0.0057		<0.000098 U	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
<0.00054 U	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.0054	<0.0054	0.000066 J	0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00012	<0.0054	0.000057 J
<0.0018 UJ	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01	<0.0051		<0.0051	<0.01	<0.0051	<0.0051	<0.0051
<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
<0.00061 U	<0.0048	<0.0048	<0.0048	<0.0048		<0.0048	<0.0048		<0.0048	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048 UJ	<0.0048	<0.0095	<0.0048	<0.0048 UJ	<0.0048
<0.005	<0.005	<0.000047 U	<0.0001	<0.005		<0.000031 U	<0.005	<0.0002	<0.00002 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000027 U	<0.005 UJ	<0.000044 U
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.00081 J	<0.0053	0.000052 J	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000055 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000072	<0.0053	0.00005 J
<0.00041 U	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.000033 J	<0.0052 UJ	<0.0001
<0.00043 U	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0056	<0.0056	0.000052 J	0.000086 J	<0.0056		<0.00011	<0.0056	<0.00022	0.00009 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000076	<0.0056	0.00004 J
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000021 U	<0.005	<0.0001
<0.01	<0.01	<0.0001	<0.0001	<0.002		<0.0001	<0.01		<0.01	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	<0.0001	<0.005	<0.0001
<0.0019 U	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0052	<0.0052	<0.0052	<0.0052	<0.0052		<0.0052	<0.0052		<0.0052	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	<0.0052	<0.0052	<0.0052
<0.001 U	<0.0048	0.000026 J J	<0.000095 UJ	<0.0048		0.000015 J J	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	0.000025 J J	<0.0048	0.000026 J
<0.0056	<0.0056	0.000025 JB	<0.00011	<0.0056		0.000026 J	<0.0056	<0.00022	0.000023 JB	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000021 JB	<0.0056 UJ	0.000024 JB
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.00057 U	<0.0058	<0.00012	<0.00012	<0.0058		<0.00012	<0.0058	<0.00023	<0.00023	<0.012	<0.012 UJ	<0.012	<0.0058	<0.0058	<0.0058	<0.012	<0.000058	<0.0058	<0.00012
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
<0.005 UJ	<0.005 UJ	<0.0001 UJ	<0.0001 UJ	<0.005 UJ		<0.0001 UJ	<0.005 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.000015 UJ	<0.005 UJ	<0.0001 UJ
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005 UJ	<0.0001
<0.00039 U	<0.005	0.000035 JB	<0.0001	<0.005		0.000047 J	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	0.000024 JB	<0.005 UJ	0.00004 JB
<0.0048	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
<0.0048	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00023 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.0056	<0.0056	<0.00011	<0.00011	<0.0056		<0.00007 U	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.00063 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
<0.0051	<0.0051	0.000045 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000032 U	<0.0051	<0.0001
<0.0052	<0.0052	0.000044 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																		
<0.0052	<0.0052	<0.0052	0.00044 J	<0.0052		<0.0052	<0.0052		0.0021 J	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	0.0012 J	<0.0052	0.00032 J
<0.0013 U	<0.005	0.000032 J J	0.00023 J	<0.005		<0.000099 UJ	<0.005	<0.005 UJ	0.00015 J J	<0.0099	<0.0099	<0.0099	<0.005 UJ	<0.005	<0.005	<0.0099	0.000095 J	<0.005 UJ	0.000089 J
<0.00074 U	<0.005	<0.0001	<0.0001	<0.005		0.00004 J	<0.005	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000054 U	<0.005 UJ	0.000041 J
<0.0056	<0.0056	<0.00011	<0.00033 U	<0.0056		<0.00011	<0.0056	<0.00081 U	<0.0003 U	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00018 U
<0.00058 U	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00022	<0.00027 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0015 J	0.000065 J
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00021	<0.00014 UJ	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
0.00054 J	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.0027 J	<0.0055	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	0.00011 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
0.00043 J	<0.0052	<0.0001	0.00022	<0.0052		<0.0001	<0.0052	0.0101	0.0015	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.0053	<0.0053	<0.00011	0.00071	<0.0053		<0.00011	<0.0053	0.019	0.0038	<0.011	<0.011	<0.011	0.00032 J	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
0.00044 J	<0.005	<0.0001	0.00029	<0.005		<0.0001	<0.005	0.0192	0.004	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.000051	<0.005 UJ	<0.0001
<0.005	<0.005	<0.0001	0.00064	<0.005		<0.0001	<0.005	0.0215	0.0084	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0054	<0.0054	0.000068 J	0.00016	<0.0054		<0.00011	<0.0054	0.0124	0.0018	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0001	<0.0054	0.000053 J
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000085 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.000058 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
0.0024 J	<0.0052	<0.0001	0.00018	<0.0052		<0.0001	<0.0052	0.0276	0.05	0.018	0.0322	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00019	0.0111	<0.0001
0.0024 J	<0.0053	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.028	0.0501	0.0187	0.0349	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	0.0122	<0.00011
0.00057 J	<0.0053	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.0241	0.0413	0.0236	0.0403	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00019	0.0123 J	<0.00011
0.00049 J	<0.0052	0.000088 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	0.000066 J
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
<0.0011 U	<0.005	0.000031 J J	<0.00011 UJ	<0.005		<0.00011 UJ	<0.005	<0.005 UJ	<0.00022 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.000054 UJ	<0.005	0.000028 J
<0.00049 U	<0.005	0.000035 JB	<0.0001	<0.005		0.00004 J	<0.005	<0.0002	0.000026 JB	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000025 JB	<0.005 UJ	0.000031 JB
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.000081 U	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.00085 U	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0026 J	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000032 J	<0.0053	<0.00011
<0.0057	<0.0057	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
<0.0056	<0.0056	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00065	0.00096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00016	<0.005	<0.0001
<0.0052	<0.0052	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0048	0.0076	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	0.00039	<0.0052	<0.0001
<0.0054	<0.0054	<0.00011	0.00032	<0.0054		0.00011	<0.0054	0.0046	0.0076	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00036	0.0029 J	<0.00011
<0.0051	<0.0051	<0.0001	0.00069	<0.0051		<0.0001	<0.0051	0.0118	0.0179	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00066	<0.0051	<0.0001
<0.01	<0.01	<0.0001	0.00133	<0.002		<0.0001	<0.01		0.042	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	0.00211	0.004 J	<0.0001
0.00069 J	<0.0051	<0.0001	0.00093	<0.0051		<0.0001	<0.0051	0.0176	0.0254	<0.01	0.0018 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0017	0.0034 J	<0.0001
<0.0052	<0.0052	<0.0001	0.0013	<0.0052		<0.0001	<0.0052	0.0268	0.0389	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0021	<0.0052	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																		
<0.0052	<0.0052	<0.0001	0.00039	<0.0052		<0.0001	<0.0052	0.016	0.0224	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
<0.00044 U	<0.0051	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.0186	0.024	<0.01	<0.01	<0.01 UJ	<0.0051	<0.0051	<0.0051	<0.01	0.0012	<0.0051	0.000036 J
<0.0052	<0.0052	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0186	0.0236	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
<0.00075 U	<0.0051	<0.0001	0.0003	<0.0051		<0.0001	<0.0051	0.0143	0.0178	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0013	<0.0051	<0.0001
<0.0051	<0.0051	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.024	0.0307	<0.01	0.0011 J	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	0.0013	<0.0051 UJ	<0.0001
<0.005	<0.005	<0.0001	0.00032	<0.005		<0.0001	<0.005	0.0147	0.0131	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0012	0.0014 J	<0.0001
<0.0055	<0.0055	<0.00011	0.00032	<0.0055		<0.00011	<0.0055	0.0208	0.0239	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0012	<0.0055	<0.00011
<0.0054	<0.0054	<0.00054	0.00076	<0.0054		<0.00054	<0.0054	0.0288	0.0388	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0006	0.286	<0.00054
<0.00046 U	<0.0051	<0.0001	0.00087	<0.0051		<0.0001	<0.0051		0.0403	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00051	0.297	<0.0001
<0.0052	<0.0052	<0.0001	0.00045	<0.0052		<0.0001	<0.0052	0.0169	0.0212	<0.01	0.0023 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00035	0.141	<0.0001
<0.00087 U	<0.005	<0.0001	0.0006	<0.005		<0.0001	<0.005	0.0244	0.0326	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0697 J	<0.0001
<0.00089 U	<0.005	<0.0001	0.00063	<0.005		<0.0001	<0.005	0.0242	0.0321	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00054	0.0921 J	<0.0001
<0.005	<0.005	<0.0001	0.00062	<0.005		0.00005 J	<0.005	0.0249	0.0305	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00048	0.0547 J	<0.0001
<0.0059	<0.0059	<0.00012	0.00094	<0.0059		<0.00012	<0.0059	0.0369	0.0447	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.00074	<0.0059 UJ	<0.00012
<0.0051	<0.0051	<0.0001	0.00076	<0.0051		<0.0001	<0.0051	0.0348	0.0453	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00074	0.146	<0.0001
<0.0049	<0.0049	<0.000097	0.0016	<0.0049		<0.000097	<0.0049	0.049	0.0717	<0.0097	0.0347	<0.0097	<0.0049	<0.0049	<0.0049	<0.0097	0.00085	0.137	0.00012
<0.00057 U	<0.0053	0.000047 J	0.0017	<0.0053		<0.00011	<0.0053	0.0639	0.0904	<0.011	0.0171	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00084	0.259	0.00012
<0.00059 U	<0.0053	0.000052 J	0.0018	<0.0053		<0.00011	<0.0053	0.0588	0.0821	<0.011	0.0156	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.0008	0.225	0.00012
<0.0051	<0.0051	<0.0001	0.0009 J	<0.0051		<0.0001	<0.0051	0.0351 J	0.0435 J	<0.01	0.0181	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00056 J	0.161	0.0001
<0.0052	<0.0052	<0.0001	0.00067 J	<0.0052		<0.0001	<0.0052	0.0267 J	0.0338 J	<0.01	0.0122	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00041 J	0.147	0.000076 J
<0.00053 U	<0.005	0.000068 J	0.0014	<0.005		<0.0001	<0.005	0.0524	0.0691	<0.01	0.0146	<0.01	<0.005	<0.005	<0.005	<0.01	0.001	0.15	<0.0001 UJ
<0.00063 U	<0.005	0.000066 J	0.0015	<0.005		<0.0001	<0.005	0.0596	0.079	<0.01	0.0195	<0.01	<0.005	<0.005	<0.005	<0.01	0.0011	0.19	0.00021 J
<0.0054	<0.0054	<0.00011	0.0014	<0.0054		<0.00011	<0.0054	0.0616	0.0807	<0.011	0.0124	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00085	0.178	0.00012
<0.0054	<0.0054	0.00024	0.003	<0.0054		0.000072 J	<0.0054	0.068	0.0846	<0.011	0.0198	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0023	0.208	0.00077
<0.0054	<0.0054	0.00019	0.0022	<0.0054		<0.00011	<0.0054	0.0692	0.0961	<0.011	0.014	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0021	0.0985	0.00055
<0.0053	<0.0053	0.00035	0.0012	<0.0053		<0.00011	<0.0053	0.0121	0.0184	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.002	0.0383	0.00057
<0.0005 U	<0.0057	0.000073 J	0.0008	<0.0057		<0.00011	<0.0057	0.0175	0.0279	0.0045 J	0.0092 J	<0.011 UJ	<0.0057	<0.0057	0.00079 J	<0.011	0.00081	0.0906 J	0.00013
<0.00041 U	<0.0051	0.000073 J	0.00063	<0.0051		<0.0001	<0.0051	0.0178	0.029	<0.01	0.0076 J	<0.01 UJ	<0.0051	<0.0051	0.00087 J	<0.01	0.00081	0.0646 J	0.00013
<0.005	<0.005	0.000062 J	0.00034	<0.005	0.0056 JN	<0.0001	<0.005	0.0117	0.018	<0.01	0.0062 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0241	0.000092 J
<0.0053	<0.0053	0.00015	0.00048	<0.0053		<0.00011	<0.0053	0.0136	0.0207	0.0018 J	0.0032 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.001	0.0419	0.00021
<0.0053	<0.0053	0.000063 J	0.0005	<0.0053		<0.00011	<0.0053	0.0187	0.0282	0.0065 J	0.0137	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00075	0.0766 J	0.00009 J
<0.0052	<0.0052	0.000066 J	0.00048	<0.0052		<0.0001	<0.0052	0.0179	0.0268	0.0056 J	0.0116	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00073	0.0656 J	0.000093 J
0.0022 J	<0.0052	<0.000079 U	0.00069	<0.0052		<0.0001	<0.0052	0.0222	0.0305	0.154	0.107	<0.01 UJ	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.001	0.141 J	<0.00011 U
<0.0054	<0.0054	0.000077 J	0.00064	<0.0054		<0.00011	<0.0054	0.0247	0.0369	0.174	0.0842	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0012	0.119	0.000098 J
<0.0053	<0.0053	0.000078 J	0.00065	<0.0053		<0.00011	<0.0053	0.0265	0.0383	0.154	0.0794	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0012	0.101	0.0001 J
<0.005	<0.005	0.00017	0.003	<0.005		<0.0001	<0.005	0.093	0.0295	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0013	<0.005	0.00029
0.00054 J	<0.005	0.000056 J	0.0015	<0.005		<0.0001	<0.005	0.0647	0.025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00057	<0.005	0.000082 J
<0.0053	<0.0053	0.000082 J	0.0011	<0.0053		<0.00011	<0.0053	0.0541	0.028	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00057	<0.0053	0.00013
<0.005	<0.005	<0.000051 U	0.0017	<0.005		<0.0001	<0.005	0.0689	0.0268	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	0.00054	<0.005 UJ	<0.00007 U
<0.0053	<0.0053	0.000076 J	0.0019	<0.0053		<0.00011	<0.0053	0.0655	0.0315	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0019 J	0.00011
<0.0053	<0.0053	0.000072 J	0.0017	<0.0053		<0.00011	<0.0053	0.0681	0.0131	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00091	<0.0053	0.000087 J
<0.005	<0.005	<0.0001	0.00044	<0.005		<0.0001	<0.005	0.0177	0.0265	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00025	0.0127	<0.0001
<0.0048	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095 UJ	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.002 J	<0.000095
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00016 J	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000047 J	0.0089	<0.0001
<0.00082 U	<0.005	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.009	0.0103	0.0014 J	0.001 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00012 U	0.0158	<0.0001
<0.0052	<0.0052	<0.0001	0.0003	<0.0052		<0.0001	<0.0052	0.0123	0.0136	0.0054 J	0.002 J	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00013	0.0307 J	<0.0001
<0.0051	<0.0051	0.000038 J	0.00038	<0.0051		<0.0001	<0.0051	0.0156	0.0198	<0.01	0.001 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00023	0.0298	0.000048 J
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0046 U	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																			
<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		0.023	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	0.31 D J	<0.009
<0.0049	<0.0049	<0.0049	0.00032 J	<0.0049		<0.0049	<0.0049		0.0254	<0.0098	0.064	<0.0098 UJ	<0.0049		<0.0049	<0.0098	0.0004 J	0.172	<0.0049
<0.001 U	<0.005	0.000019 J J	0.00044 J	<0.005		<0.0001 UJ	<0.005	0.0172 J	0.0309 J	<0.01	0.0075 J	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.0004 J	0.21	0.000026 J
<0.001 U	<0.005	<0.000033 U	0.00047	<0.005		<0.0001	<0.005	0.0224	0.0302	<0.01	0.0093 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00043	0.183	0.000037 J
<0.005	<0.005	<0.0001	0.00033	<0.005		<0.0001	<0.005	0.0162	0.0258	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00032	0.193	<0.0001
<0.00038 U	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	0.0133	0.0188	<0.0095	0.0029 J	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.00022 U	0.234	<0.000095
<0.0051	<0.0051	<0.0001	0.00021	<0.0051		<0.0001	<0.0051	0.0121	0.0151	<0.01	0.0014 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00021	<0.0051	<0.0001
<0.0054	<0.0054	<0.00011	0.00021	<0.0054		<0.00011	<0.0054	0.0097	0.013	<0.011	0.00096 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00025	0.208	<0.00011
<0.0052	<0.0052	<0.0001	0.00029	<0.0052		<0.0001	<0.0052	0.015	0.0194	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028 B	0.19	<0.0001
<0.0052	<0.0052	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.016	0.0206	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00034 B	0.217	<0.0001
<0.0052	<0.0052	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0096	0.0093	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00024	0.168	<0.0001
<0.0052	<0.0052	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0094	0.009	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00023	0.165	<0.0001
<0.005	<0.005	0.000046 J	0.0003	<0.005		<0.0001	<0.005	0.0146 J	0.0098	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00035	0.2	0.00004 J
<0.005	<0.005	<0.0001	0.00025	<0.005		<0.0001	<0.005	0.0146 J	0.0096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00024	0.179	<0.0001
<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	0.094	<0.009
<0.0053	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	0.00069 J J	<0.0053		<0.0053	<0.011	<0.0053	0.106	<0.0053
<0.001 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.000017 J J	0.0933	<0.0001
<0.00077 U	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.116	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.122	<0.0001
<0.0048	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.107	<0.000095
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	0.178	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00026	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.13	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0003	0.0005 B	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.114	<0.0001
0.003 J	<0.0053	0.00013	0.00012	0.00058 J		0.00012	<0.0053	<0.00021	0.00012 J	<0.011	0.0014 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.176	0.00013
0.0013 J	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.122	<0.0001
<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009
<0.0051	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01 UJ	<0.0051		<0.0051	<0.01	<0.0051	0.0166	<0.0051
<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.00009 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	0.0144	<0.0001
<0.00064 U	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.000033 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0046 J	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
0.0025 J	<0.0055	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005		<0.0001 UJ	<0.005	<0.005 UJ	0.000045 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
<0.0011 U	<0.005	<0.000023 U	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.000042 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	0.000021 J
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0054	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00006 U	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	<0.00042 U	0.00076 J	0.0011 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000054	<0.0052	<0.0001
<0.0055	<0.0055	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00027	0.00036	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000042 J	<0.0053	<0.00011
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0087 U	<0.0001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

SVOCs																		
<0.0048	<0.0048	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
<0.0051	<0.0051	<0.0001	<0.0001	<0.0051		0.000066 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.00005	<0.0052	<0.0001
<0.005	<0.005	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
<0.0052	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
0.0024 J	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
0.00047 J	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
<0.00043 U	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0002 J	0.00017 J	<0.01	0.0087 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000043 J	<0.0052	<0.0001
0.0049 J	<0.0054	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00031	0.00038 J	<0.011	0.0056 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
0.0017 J	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00028	0.00031	<0.011	0.0019 J	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
<0.005	<0.005	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0061	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00068	<0.005	<0.0001
0.00044 J	<0.0054	<0.00011	0.00017	<0.0054		<0.00011	<0.0054	0.0029	0.0039	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00055	<0.0054 UJ	<0.00011
<0.00058 U	<0.005	<0.0001	0.00022	<0.005		<0.0001	<0.005	0.0044	0.0049	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00082	<0.005	0.000041 J
0.0015 J	<0.0053	<0.000041 U	0.00032 B	<0.0053		<0.00011	<0.0053	0.0102	0.0136	<0.011	0.00098 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0014	0.0023 J	<0.000081 U
0.0018 J	<0.0052	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	0.00041	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002	<0.0052	<0.0001
<0.0053	<0.0053	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000064 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00012	<0.0053	<0.00011
<0.0055	<0.0055	<0.00011	0.000069 J	<0.0055		<0.00011	<0.0055	0.00062	0.000078 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00018	<0.0055 U	<0.00011
<0.0051	<0.0051	<0.0001	0.0006	<0.0051		<0.0001	<0.0051	0.0264	0.0415	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0015	0.0167	0.0001
<0.00048 U	<0.0056	0.000044 J	0.00043	<0.0056		0.000061 J	<0.0056	0.0158	0.0186	0.00091 J	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00054	0.0188	0.000067 J
<0.005	<0.005	<0.0001	0.00024	<0.005		<0.0001	<0.005	0.0164	0.0254	<0.01	0.0026 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00062	0.0094	0.000039 J
<0.0054	<0.0054	0.000046 J	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0294	0.0021 J	0.0027 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00089	0.042	0.000062 J
<0.005	<0.005	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0232	0.0354	0.00096 J	0.0015 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00083	<0.005 UJ	0.000048 J
<0.0053	<0.0053	<0.00011	0.00046	<0.0053		<0.00011	<0.0053	0.0241	0.0322	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0011	0.0265	0.000067 J
<0.0051	<0.0051	<0.0001	0.00037	<0.0051		<0.0001	<0.0051	0.0289	0.0444	0.0047 J	0.0042 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0011	0.0149	0.000063 J

Notes:

[1] Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

[2] Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

[3] Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier I Tables).

[4] Denotes screening criteria source R2008-018, Proposed Revisions to Groundwater Quality Standards, 35 I.A.C. 620.

[5] Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historic results were reported by PAH analysis.

[6] Denotes wells not part of the Interim Groundwater Monitoring Program but split sampled with the IEPA during 2Q13.

Indicates a historical exceedance or screening criteria.

Indicates a current exceedance or screening criteria.

Cell without a value indicates previous quarter analyte result was rejected or the analyte was not part of method list when sampled.

LABORATORY QUALIFIERS:

B = Target analyte or common lab contaminant was identified in the method blank indicating possible field or lab contamination.

D = The result is from a diluted sample.

J = The analyte was detected below the reporting limit. Result is estimated.

E=The value exceeds calibration range.

JN = Estimated value for tentatively identified compound (library search).

URS QUALIFIERS:

J = The result is estimated.

UJ = Estimated nondetect.

U = Result is non-detect.

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19576

Sampling Date: 04/03/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 82

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 24, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19576

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC19576

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19576-1	04/03/13	11:00	LRMM	04/05/13	AQ	Ground Water	MW6A-ROX-040313
MC19576-2	04/03/13	11:40	LRMM	04/05/13	AQ	Ground Water	MW6B-ROX-040313
MC19576-3	04/03/13	13:50	LRMM	04/05/13	AQ	Ground Water	MW6C-ROX-040313
MC19576-4	04/03/13	15:30	LRMM	04/05/13	AQ	Ground Water	MW6D-ROX-040313
MC19576-5	04/03/13	00:00	LRMM	04/05/13	AQ	Trip Blank Water	TB-ROX-040313-HCL
MC19576-6	04/03/13	00:00	LRMM	04/05/13	AQ	Trip Blank Water	TB-ROX-040313-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	**Job No**	MC19576
Site:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Centra	**Report Date**	10/24/2016 6:02:16 P

4 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were collected on 04/03/2013 and were received at SGS Accutest New England on 04/05/2013 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC19576. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. 1-Chlorohexane, Benzenethiol, Dibenz(a,h)acridine, Indene and Quinoline were searched in the library search and reported only if detections were found.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSV694

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19617-1MS, MC19617-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike/Blank Spike Dup Recovery(s) for Acetone, Acrolein are outside control limits.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane, 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,4-Dioxane, 2-Chloroethyl vinyl ether are outside control limits for sample MC19617-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- Acrolein: Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP32575

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC19626-15MS, MC19626-15MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Aniline, Benzyl Alcohol, Hexachlorocyclopentadiene, n-Nitrosodimethylamine, Phenol, Pyridine are outside control limits.
- Matrix Spike Recovery(s) for Aniline, Benzyl Alcohol, Pyridine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Aniline, Benzyl Alcohol, Hexachlorocyclopentadiene, Phenol, Pyridine are outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32577

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC19577-2MS, MC19577-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Acenaphthylene are outside control limits.
- Matrix Spike Duplicate Recovery(s) for Acenaphthylene are outside control limits. Probable cause due to matrix interference.

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32677

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Initial Calibration Verification for 4-Bromofluorobenzene exceeds criteria. Target recovery satisfactory.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC19576).

Summary of Hits

Job Number: MC19576
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/03/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19576-1	MW6A-ROX-040313					
Benzene		1.7	0.50	0.24	ug/l	SW846 8260B
Di-n-butyl phthalate		1.8 J	5.3	0.41	ug/l	SW846 8270C
bis(2-Ethylhexyl)phthalate		0.52 J	2.1	0.52	ug/l	SW846 8270C
Phenanthrene		0.084	0.053	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.053 J	0.11	0.038	ug/l	SW846 8270C BY SIM
MC19576-2	MW6B-ROX-040313					
Benzene		0.43 J	0.50	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		13.2	1.0	0.41	ug/l	SW846 8260B
Di-n-butyl phthalate		1.2 J	5.4	0.42	ug/l	SW846 8270C
2-Methylnaphthalene		0.20 J	0.22	0.056	ug/l	SW846 8270C BY SIM
MC19576-3	MW6C-ROX-040313					
Benzene		0.62	0.50	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.2	1.0	0.41	ug/l	SW846 8260B
Di-n-butyl phthalate		0.77 J	5.2	0.40	ug/l	SW846 8270C
2-Methylnaphthalene		0.16 J	0.21	0.054	ug/l	SW846 8270C BY SIM
MC19576-4	MW6D-ROX-040313					
Benzene		0.55	0.50	0.24	ug/l	SW846 8260B
Di-n-butyl phthalate		0.69 J	5.3	0.41	ug/l	SW846 8270C
MC19576-5	TB-ROX-040313-HCL					
No hits reported in this sample.						
MC19576-6	TB-ROX-040313-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17498.D	1	04/15/13	AMY	n/a	n/a	MSV694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	1.7	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11120.D	1	04/12/13	KR	04/09/13	OP32575	MSW521
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.8	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.52	2.1	0.52	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		15-110%
4165-62-2	Phenol-d5	17%		15-110%
118-79-6	2,4,6-Tribromophenol	61%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82507.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.055	ug/l	
85-01-8	Phenanthrene	0.084	0.053	0.013	ug/l	
129-00-0	Pyrene	0.053	0.11	0.038	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-040313		
Lab Sample ID:	MC19576-1	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23586.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	119%		36-173%
460-00-4	Bromofluorobenzene (S)	125%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17499.D	1	04/15/13	AMY	n/a	n/a	MSV694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.43	0.50	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.2	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11121.D	1	04/12/13	KR	04/09/13	OP32575	MSW521
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.2	5.4	0.42	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82508.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.063	ug/l	
218-01-9	Chrysene	ND	0.11	0.078	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	0.20	0.22	0.056	ug/l	J
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	63%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-040313		
Lab Sample ID:	MC19576-2	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23587.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	116%		36-173%
460-00-4	Bromofluorobenzene (S)	120%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17500.D	1	04/15/13	AMY	n/a	n/a	MSV694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.62	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.2	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11122.D	1	04/12/13	KR	04/09/13	OP32575	MSW521
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.89	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.60	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.96	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.68	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.67	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.77	5.2	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.46	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.84	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	64%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82509.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.061	ug/l	
218-01-9	Chrysene	ND	0.10	0.076	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	0.16	0.21	0.054	ug/l	J
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	58%		30-130%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-040313		
Lab Sample ID:	MC19576-3	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23588.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	116%		36-173%
460-00-4	Bromofluorobenzene (S)	116%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17501.D	1	04/15/13	AMY	n/a	n/a	MSV694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.55	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11123.D	1	04/12/13	KR	04/09/13	OP32575	MSW521
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.69	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	68%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82510.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.034	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.055	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-040313		
Lab Sample ID:	MC19576-4	**Date Sampled:**	04/03/13
Matrix:	AQ - Ground Water	**Date Received:**	04/05/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23589.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		36-173%
460-00-4	Bromofluorobenzene (S)	116%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040313-HCL		
Lab Sample ID:	MC19576-5	**Date Sampled:**	04/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17497.D	1	04/15/13	AMY	n/a	n/a	MSV694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040313-HCL		
Lab Sample ID:	MC19576-5	**Date Sampled:**	04/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040313-HCL		
Lab Sample ID:	MC19576-5	**Date Sampled:**	04/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial & Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040313-ST		
Lab Sample ID:	MC19576-6	**Date Sampled:**	04/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23590.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		36-173%
460-00-4	Bromofluorobenzene (S)	125%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

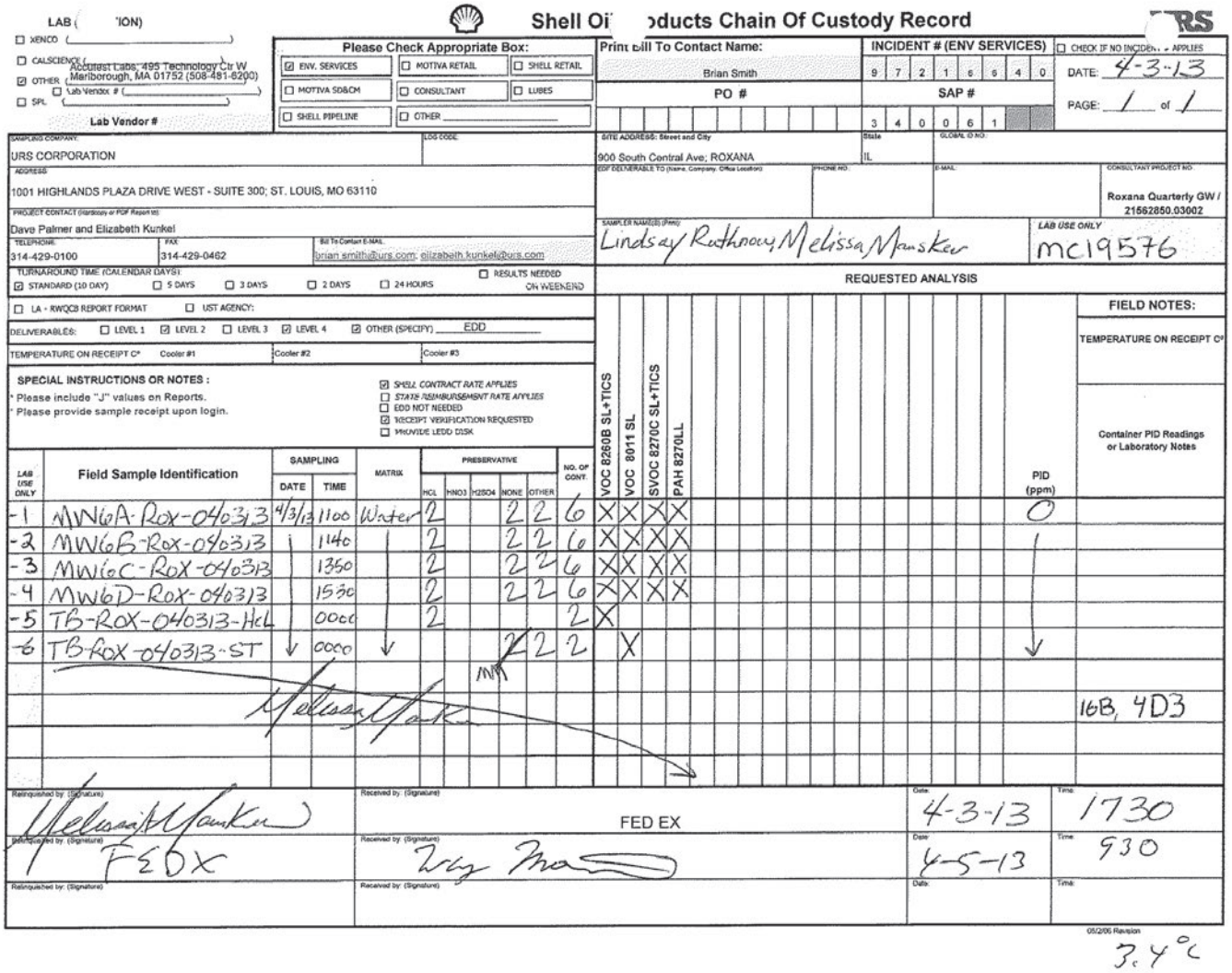
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oi[illegible]oducts Chain Of Custody Record

LAB ([illegible]ION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #
Lab Vendor # (_____)

Please Check Appropriate Box:
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SO&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Brian Smith
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 5 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4-3-13
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
SAMPLER NAME(S) (Print): Lindsay Ruthnow, Melissa Manske
LAB USE ONLY: MC19576
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
REQUESTED ANALYSIS
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)
-1	MW6A-ROX-040313	4/3/13	1100	Water	2			2	2	6	X	X	X	X	0
-2	MW6B-ROX-040313		1140		2			2	2	6	X	X	X	X	
-3	MW6C-ROX-040313		1350		2			2	2	6	X	X	X	X	
-4	MW6D-ROX-040313		1530		2			2	2	6	X	X	X	X	
-5	TB-ROX-040313-HCL		0000		2					2	X				
-6	TB-ROX-040313-ST		0000					2	2	2		X			

16B, 4D3

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Melissa Manske	FED EX	4-3-13	1730
FEDX	[illegible]	4-5-13	930

05/2/05 Revision

3.4°C

MC19576: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19576 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/5/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SO CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

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MC19576: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19576

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19576-1 Collected: 03-APR-13 11:00 By: LRMM Received: 05-APR-13 By: AF MW6A-ROX-040313						
MC19576-1	SW846 8270C BY SIM	10-APR-13 22:32	NS	09-APR-13	SC	B8270SIMSL
MC19576-1	SW846 8270C	12-APR-13 19:31	KR	09-APR-13	SC	AB8270SL+
MC19576-1	SW846 8260B	15-APR-13 14:29	AMY			V8260SL+
MC19576-1	SW846 8011	17-APR-13 01:42	NK	15-APR-13	PA	V8011SL
MC19576-2 Collected: 03-APR-13 11:40 By: LRMM Received: 05-APR-13 By: AF MW6B-ROX-040313						
MC19576-2	SW846 8270C BY SIM	10-APR-13 22:56	NS	09-APR-13	SC	B8270SIMSL
MC19576-2	SW846 8270C	12-APR-13 19:54	KR	09-APR-13	SC	AB8270SL+
MC19576-2	SW846 8260B	15-APR-13 14:56	AMY			V8260SL+
MC19576-2	SW846 8011	17-APR-13 02:09	NK	15-APR-13	PA	V8011SL
MC19576-3 Collected: 03-APR-13 13:50 By: LRMM Received: 05-APR-13 By: AF MW6C-ROX-040313						
MC19576-3	SW846 8270C BY SIM	10-APR-13 23:19	NS	09-APR-13	SC	B8270SIMSL
MC19576-3	SW846 8270C	12-APR-13 20:17	KR	09-APR-13	SC	AB8270SL+
MC19576-3	SW846 8260B	15-APR-13 15:23	AMY			V8260SL+
MC19576-3	SW846 8011	17-APR-13 02:35	NK	15-APR-13	PA	V8011SL
MC19576-4 Collected: 03-APR-13 15:30 By: LRMM Received: 05-APR-13 By: AF MW6D-ROX-040313						
MC19576-4	SW846 8270C BY SIM	10-APR-13 23:43	NS	09-APR-13	SC	B8270SIMSL
MC19576-4	SW846 8270C	12-APR-13 20:40	KR	09-APR-13	SC	AB8270SL+
MC19576-4	SW846 8260B	15-APR-13 15:50	AMY			V8260SL+
MC19576-4	SW846 8011	17-APR-13 03:01	NK	15-APR-13	PA	V8011SL
MC19576-5 Collected: 03-APR-13 00:00 By: LRMM Received: 05-APR-13 By: AF TB-ROX-040313-HCL						
MC19576-5	SW846 8260B	15-APR-13 14:03	AMY			V8260SL+
MC19576-6 Collected: 03-APR-13 00:00 By: LRMM Received: 05-APR-13 By: AF TB-ROX-040313-ST						

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19576

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19576-6	SW846 8011	17-APR-13 03:28	NK	15-APR-13	PA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/05/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19576-1.2	Walk In Ref #22	Michael Rolo	04/09/13 07:47	Retrieve from Storage
MC19576-1.2	Michael Rolo		04/10/13 07:39	Depleted
MC19576-1.4	VOC Ref #4	Amy Min Yang	04/15/13 12:17	Retrieve from Storage
MC19576-1.4	Amy Min Yang	GCMSV	04/15/13 12:17	Load on Instrument
MC19576-1.4	GCMSV	Kerry Ryan	04/16/13 11:38	Unload from Instrument
MC19576-1.4	Kerry Ryan	VOC Ref #4	04/16/13 11:39	Return to Storage
MC19576-1.4	Scott Parsick		07/24/13 13:54	Disposed
MC19576-1.6	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19576-1.6	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19576-1.6	Scott Parsick		07/24/13 13:54	Disposed
MC19576-2.2	Walk In Ref #22	Michael Rolo	04/09/13 07:47	Retrieve from Storage
MC19576-2.2	Michael Rolo		04/10/13 07:39	Depleted
MC19576-2.4	VOC Ref #4	Amy Min Yang	04/15/13 12:17	Retrieve from Storage
MC19576-2.4	Amy Min Yang	GCMSV	04/15/13 12:17	Load on Instrument
MC19576-2.4	GCMSV	Kerry Ryan	04/16/13 11:38	Unload from Instrument
MC19576-2.4	Kerry Ryan	VOC Ref #4	04/16/13 11:39	Return to Storage
MC19576-2.4	Scott Parsick		07/24/13 13:54	Disposed
MC19576-2.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19576-2.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19576-2.5	Scott Parsick		07/24/13 13:54	Disposed
MC19576-3.1	Walk In Ref #22	Michael Rolo	04/09/13 07:47	Retrieve from Storage
MC19576-3.1	Michael Rolo		04/10/13 07:39	Depleted
MC19576-3.3	VOC Ref #4	Amy Min Yang	04/15/13 12:17	Retrieve from Storage
MC19576-3.3	Amy Min Yang	GCMSV	04/15/13 12:17	Load on Instrument
MC19576-3.3	GCMSV	Kerry Ryan	04/16/13 11:38	Unload from Instrument
MC19576-3.3	Kerry Ryan	VOC Ref #4	04/16/13 11:39	Return to Storage
MC19576-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19576-3.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19576-3.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19576-3.5	Scott Parsick		07/24/13 13:54	Disposed
MC19576-4.1	Walk In Ref #22	Michael Rolo	04/09/13 07:47	Retrieve from Storage
MC19576-4.1	Michael Rolo		04/10/13 07:39	Depleted
MC19576-4.3	VOC Ref #4	Amy Min Yang	04/15/13 12:17	Retrieve from Storage
MC19576-4.3	Amy Min Yang	GCMSV	04/15/13 12:17	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/05/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19576-4.3	GCMSV	Kerry Ryan	04/16/13 11:38	Unload from Instrument
MC19576-4.3	Kerry Ryan	VOC Ref #4	04/16/13 11:39	Return to Storage
MC19576-4.3	Scott Parsick		07/24/13 13:54	Disposed
MC19576-4.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19576-4.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19576-4.5	Scott Parsick		07/24/13 13:54	Disposed
MC19576-5.1	VOC Ref #4	Amy Min Yang	04/15/13 12:17	Retrieve from Storage
MC19576-5.1	Amy Min Yang	GCMSV	04/15/13 12:17	Load on Instrument
MC19576-5.1	GCMSV	Kerry Ryan	04/16/13 11:38	Unload from Instrument
MC19576-5.1	Kerry Ryan	VOC Ref #4	04/16/13 11:39	Return to Storage
MC19576-5.1	Scott Parsick		07/24/13 13:54	Disposed
MC19576-6.1	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19576-6.1	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19576-6.1	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-MB	V17489.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-MB	V17489.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-MB	V17489.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-BS	V17486.D	1	04/15/13	AMY	n/a	n/a	MSV694
MSV694-BSD	V17487.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: Method: SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	67.7	135* [a]	67.7	135* [a]	0	70-130/25
107-02-8	Acrolein	250	70.4	28* [a]	72.9	29* [a]	3	70-130/25
107-13-1	Acrylonitrile	50	56.7	113	55.6	111	2	70-130/25
71-43-2	Benzene	50	50.9	102	50.1	100	2	70-130/25
108-86-1	Bromobenzene	50	52.2	104	52.2	104	0	70-130/25
74-97-5	Bromochloromethane	50	51.7	103	51.3	103	1	70-130/25
75-27-4	Bromodichloromethane	50	52.4	105	51.8	104	1	70-130/25
75-25-2	Bromoform	50	43.7	87	43.5	87	0	70-130/25
74-83-9	Bromomethane	50	62.8	126	62.3	125	1	70-130/25
78-93-3	2-Butanone (MEK)	50	59.0	118	58.0	116	2	70-130/25
104-51-8	n-Butylbenzene	50	56.0	112	55.1	110	2	70-130/25
135-98-8	sec-Butylbenzene	50	52.0	104	51.4	103	1	70-130/25
98-06-6	tert-Butylbenzene	50	50.3	101	49.3	99	2	70-130/25
75-15-0	Carbon disulfide	50	54.2	108	52.8	106	3	70-130/25
56-23-5	Carbon tetrachloride	50	54.4	109	52.6	105	3	70-130/25
108-90-7	Chlorobenzene	50	50.7	101	50.3	101	1	70-130/25
75-00-3	Chloroethane	50	58.4	117	57.4	115	2	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	45.1	90	44.7	89	1	70-130/25
67-66-3	Chloroform	50	50.7	101	49.8	100	2	70-130/25
74-87-3	Chloromethane	50	64.5	129	61.2	122	5	70-130/25
95-49-8	o-Chlorotoluene	50	50.1	100	49.9	100	0	70-130/25
106-43-4	p-Chlorotoluene	50	52.3	105	51.5	103	2	70-130/25
124-48-1	Dibromochloromethane	50	46.2	92	45.9	92	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	51.1	102	50.9	102	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.8	102	50.4	101	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	53.0	106	52.5	105	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	55.2	110	53.2	106	4	70-130/25
75-34-3	1,1-Dichloroethane	50	51.9	104	51.4	103	1	70-130/25
107-06-2	1,2-Dichloroethane	50	51.1	102	50.6	101	1	70-130/25
75-35-4	1,1-Dichloroethene	50	55.2	110	53.9	108	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.0	100	49.3	99	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	51.7	103	50.8	102	2	70-130/25
78-87-5	1,2-Dichloropropane	50	49.8	100	49.2	98	1	70-130/25
142-28-9	1,3-Dichloropropane	50	49.5	99	49.3	99	0	70-130/25
594-20-7	2,2-Dichloropropane	50	60.3	121	58.2	116	4	70-130/25
563-58-6	1,1-Dichloropropene	50	53.5	107	52.1	104	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-BS	V17486.D	1	04/15/13	AMY	n/a	n/a	MSV694
MSV694-BSD	V17487.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: Method: SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	51.8	104	50.7	101	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	48.6	97	47.7	95	2	70-130/25
123-91-1	1,4-Dioxane	250	222	89	224	90	1	70-130/25
97-63-2	Ethyl methacrylate	50	47.2	94	46.8	94	1	77-137/25
100-41-4	Ethylbenzene	50	53.8	108	53.2	106	1	70-130/25
87-68-3	Hexachlorobutadiene	50	52.1	104	51.3	103	2	70-130/25
591-78-6	2-Hexanone	50	55.3	111	54.9	110	1	70-130/25
98-82-8	Isopropylbenzene	50	51.6	103	51.0	102	1	70-130/25
99-87-6	p-Isopropyltoluene	50	57.2	114	56.1	112	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	44.7	89	45.0	90	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	43.5	87	43.7	87	0	70-130/25
74-95-3	Methylene bromide	50	51.3	103	50.9	102	1	70-130/25
75-09-2	Methylene chloride	50	51.4	103	50.7	101	1	70-130/25
91-20-3	Naphthalene	50	54.4	109	57.9	116	6	70-130/25
103-65-1	n-Propylbenzene	50	51.9	104	50.8	102	2	70-130/25
100-42-5	Styrene	50	53.4	107	53.0	106	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	54.9	110	54.5	109	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	55.0	110	55.6	111	1	70-130/25
127-18-4	Tetrachloroethene	50	52.9	106	51.9	104	2	70-130/25
108-88-3	Toluene	50	51.6	103	50.7	101	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	54.3	109	57.7	115	6	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	52.5	105	54.3	109	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	52.0	104	50.6	101	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	49.6	99	49.1	98	1	70-130/25
79-01-6	Trichloroethene	50	48.0	96	47.2	94	2	70-130/25
75-69-4	Trichlorofluoromethane	50	60.0	120	58.6	117	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	52.3	105	52.4	105	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	52.8	106	52.3	105	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	52.5	105	51.9	104	1	70-130/25
108-05-4	Vinyl Acetate	50	51.4	103	50.9	102	1	70-130/25
75-01-4	Vinyl chloride	50	51.4	103	50.8	102	1	70-130/25
	m,p-Xylene	100	106	106	105	105	1	70-130/25
95-47-6	o-Xylene	50	51.3	103	50.7	101	1	70-130/25
1330-20-7	Xylene (total)	150	158	105	156	104	1	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV694-BS	V17486.D	1	04/15/13	AMY	n/a	n/a	MSV694
MSV694-BSD	V17487.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	104%	70-130%
2037-26-5	Toluene-D8	104%	104%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19617-1MS	V17494.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1MSD	V17495.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1	V17491.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	MC19617-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	190	76	250	192	77	1	70-130/30
107-02-8	Acrolein	ND		1250	1030	82	1250	1030	82	0	70-130/30
107-13-1	Acrylonitrile	ND		250	308	123	250	300	120	3	70-130/30
71-43-2	Benzene	ND		250	270	108	250	264	106	2	70-130/30
108-86-1	Bromobenzene	ND		250	274	110	250	271	108	1	70-130/30
74-97-5	Bromochloromethane	ND		250	272	109	250	270	108	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	272	109	250	269	108	1	70-130/30
75-25-2	Bromoform	ND		250	216	86	250	219	88	1	70-130/30
74-83-9	Bromomethane	ND		250	315	126	250	305	122	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	240	96	250	242	97	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	296	118	250	298	119	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	276	110	250	272	109	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	267	107	250	270	108	1	70-130/30
75-15-0	Carbon disulfide	ND		250	285	114	250	281	112	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	250	277	111	1	70-130/30
108-90-7	Chlorobenzene	ND		250	268	107	250	264	106	2	70-130/30
75-00-3	Chloroethane	ND		250	290	116	250	284	114	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	62.2	25* [a]	250	11.9	5* [a]	136* [b]	70-130/30
67-66-3	Chloroform	ND		250	268	107	250	265	106	1	70-130/30
74-87-3	Chloromethane	ND		250	300	120	250	305	122	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	265	106	250	260	104	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	277	111	250	273	109	1	70-130/30
124-48-1	Dibromochloromethane	ND		250	235	94	250	236	94	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	267	107	250	269	108	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	269	108	250	266	106	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	279	112	250	275	110	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	281	112	250	276	110	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	279	112	250	274	110	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	270	108	250	266	106	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	294	118	250	290	116	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	53.4		250	312	103	250	308	102	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	277	111	250	272	109	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	265	106	250	261	104	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	261	104	250	260	104	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	312	125	250	306	122	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	285	114	250	278	111	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19617-1MS	V17494.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1MSD	V17495.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1	V17491.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Compound	MC19617-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	265	106	250	261	104	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	246	98	250	246	98	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	619	50* [a]	1250	857	69* [a]	32* [b]	70-130/30
97-63-2	Ethyl methacrylate	ND		250	250	100	250	251	100	0	72-139/30
100-41-4	Ethylbenzene	ND		250	288	115	250	281	112	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	251	100	250	273	109	8	70-130/30
591-78-6	2-Hexanone	ND		250	237	95	250	241	96	2	70-130/30
98-82-8	Isopropylbenzene	ND		250	274	110	250	270	108	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	302	121	250	299	120	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	234	94	250	236	94	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	233	93	250	235	94	1	70-130/30
74-95-3	Methylene bromide	ND		250	268	107	250	267	107	0	70-130/30
75-09-2	Methylene chloride	ND		250	273	109	250	267	107	2	70-130/30
91-20-3	Naphthalene	ND		250	223	89	250	291	116	26	70-130/30
103-65-1	n-Propylbenzene	ND		250	276	110	250	270	108	2	70-130/30
100-42-5	Styrene	ND		250	282	113	250	280	112	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	287	115	250	282	113	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	293	117	250	296	118	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	281	112	250	275	110	2	70-130/30
108-88-3	Toluene	ND		250	273	109	250	268	107	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	219	88	250	287	115	27	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	247	99	250	280	112	13	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	270	108	250	268	107	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	257	103	250	256	102	0	70-130/30
79-01-6	Trichloroethene	ND		250	255	102	250	249	100	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	297	119	250	290	116	2	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	274	110	250	277	111	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	277	111	250	275	110	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	278	111	250	275	110	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	273	109	250	272	109	0	70-130/30
75-01-4	Vinyl chloride	32.9		250	275	97	250	270	95	2	70-130/30
	m,p-Xylene	ND		500	566	113	500	553	111	2	70-130/30
95-47-6	o-Xylene	ND		250	269	108	250	267	107	1	70-130/30
1330-20-7	Xylene (total)	ND		750	835	111	750	820	109	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19617-1MS	V17494.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1MSD	V17495.D	5	04/15/13	AMY	n/a	n/a	MSV694
MC19617-1	V17491.D	1	04/15/13	AMY	n/a	n/a	MSV694

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-5

CAS No.	Surrogate Recoveries	MS	MSD	MC19617-1	Limits
1868-53-7	Dibromofluoromethane	105%	106%	100%	70-130%
2037-26-5	Toluene-D8	104%	104%	103%	70-130%
460-00-4	4-Bromofluorobenzene	92%	92%	94%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV694-CC692	**Injection Date:**	04/15/13
Lab File ID:	V17486.D	**Injection Time:**	09:11
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	583433	6.53	861866	7.72	363908	11.06	436447	13.28	92511	3.48
Upper Limit [a]	1166866	7.03	1723732	8.22	727816	11.56	872894	13.78	185022	3.98
Lower Limit [b]	291717	6.03	430933	7.22	181954	10.56	218224	12.78	46256	2.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV694-BS	583433	6.53	861866	7.72	363908	11.06	436447	13.28	92511	3.48
MSV694-BSD	576527	6.53	851358	7.72	357092	11.06	427563	13.28	94235	3.48
MSV694-MB	577772	6.53	854221	7.72	356211	11.06	402693	13.28	89296	3.48
ZZZZZZ	565688	6.53	843952	7.72	351215	11.06	395587	13.28	85162	3.48
MC19617-1	558105	6.53	826081	7.72	344742	11.06	388889	13.28	88310	3.49
ZZZZZZ	549239	6.54	817930	7.72	338100	11.06	382853	13.28	73320	3.49
ZZZZZZ	557417	6.54	825199	7.72	340780	11.06	393885	13.28	69193	3.49
MC19617-1MS	559242	6.53	826829	7.72	345867	11.06	412142	13.28	73761	3.48
MC19617-1MSD	560282	6.54	833965	7.72	349761	11.07	417629	13.28	80028	3.49
ZZZZZZ	547242	6.54	823062	7.72	339463	11.06	387848	13.28	80765	3.49
MC19576-5	549549	6.54	820403	7.72	340953	11.07	380467	13.28	79792	3.49
MC19576-1	542805	6.54	807670	7.72	334720	11.07	381934	13.28	83663	3.49
MC19576-2	544803	6.54	815222	7.72	339278	11.07	385152	13.28	87719	3.49
MC19576-3	535722	6.54	802979	7.72	332961	11.07	374156	13.28	85167	3.49
MC19576-4	539953	6.53	810262	7.72	338299	11.07	377604	13.28	82767	3.48
ZZZZZZ	540409	6.54	805682	7.72	334537	11.07	374280	13.28	83046	3.48
ZZZZZZ	528840	6.54	794749	7.72	330249	11.07	370547	13.28	82938	3.48
ZZZZZZ	520418	6.54	786076	7.72	326448	11.07	367052	13.28	84859	3.49
ZZZZZZ	525410	6.54	796422	7.72	330597	11.07	370163	13.28	85635	3.49
ZZZZZZ	507939	6.54	766615	7.72	320480	11.07	362085	13.28	81694	3.49
ZZZZZZ	503957	6.54	772879	7.72	322609	11.07	361015	13.28	79201	3.49
ZZZZZZ	504611	6.54	768959	7.72	319451	11.07	355082	13.28	79866	3.49
ZZZZZZ	514117	6.53	776866	7.72	324603	11.06	361948	13.28	79654	3.48
ZZZZZZ	512564	6.53	777731	7.72	324837	11.06	361193	13.28	77131	3.48
ZZZZZZ	510127	6.53	771393	7.72	323356	11.06	360642	13.28	77155	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19576-1	V17498.D	102	103	93
MC19576-2	V17499.D	102	103	93
MC19576-3	V17500.D	102	103	95
MC19576-4	V17501.D	103	103	95
MC19576-5	V17497.D	102	103	95
MC19617-1MS	V17494.D	105	104	92
MC19617-1MSD	V17495.D	106	104	92
MSV694-BS	V17486.D	104	104	91
MSV694-BSD	V17487.D	104	104	92
MSV694-MB	V17489.D	101	103	94

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-MB	W11048.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-MB	W11048.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	40%	15-110%
4165-62-2	Phenol-d5	29%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	15-110%
4165-60-0	Nitrobenzene-d5	72%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	102%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32577-MB	I82500.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	30-130%
321-60-8	2-Fluorobiphenyl	62%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

Blank Spike Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-BS	W11049.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	34.0	34	30-130
95-57-8	2-Chlorophenol	100	51.3	51	30-130
59-50-7	4-Chloro-3-methyl phenol	100	66.9	67	30-130
120-83-2	2,4-Dichlorophenol	100	62.8	63	30-130
105-67-9	2,4-Dimethylphenol	100	50.1	50	30-130
51-28-5	2,4-Dinitrophenol	100	76.8	77	30-130
534-52-1	4,6-Dinitro-o-cresol	100	83.3	83	30-130
95-48-7	2-Methylphenol	100	53.6	54	30-130
	3&4-Methylphenol	100	95.5	96	30-130
88-75-5	2-Nitrophenol	100	62.2	62	30-130
100-02-7	4-Nitrophenol	100	50.5	51	30-130
87-86-5	Pentachlorophenol	100	78.1	78	30-130
108-95-2	Phenol	100	24.5	25* [a]	30-130
95-95-4	2,4,5-Trichlorophenol	100	78.0	78	30-130
88-06-2	2,4,6-Trichlorophenol	100	72.6	73	30-130
62-53-3	Aniline	50	15.4	31* [a]	40-140
101-55-3	4-Bromophenyl phenyl ether	50	40.8	82	40-140
85-68-7	Butyl benzyl phthalate	50	38.2	76	40-140
100-51-6	Benzyl Alcohol	50	5.0	10* [a]	40-140
91-58-7	2-Chloronaphthalene	100	65.5	66	40-140
106-47-8	4-Chloroaniline	50	27.3	55	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	32.2	64	40-140
111-44-4	bis(2-Chloroethyl)ether	50	31.4	63	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	32.6	65	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	39.7	79	40-140
122-66-7	1,2-Diphenylhydrazine	50	42.6	85	40-140
121-14-2	2,4-Dinitrotoluene	100	83.5	84	40-140
606-20-2	2,6-Dinitrotoluene	100	80.5	81	40-140
91-94-1	3,3'-Dichlorobenzidine	50	46.8	94	40-140
132-64-9	Dibenzofuran	50	36.9	74	40-140
84-74-2	Di-n-butyl phthalate	50	39.8	80	40-140
117-84-0	Di-n-octyl phthalate	50	52.5	105	40-140
84-66-2	Diethyl phthalate	50	35.2	70	40-140
131-11-3	Dimethyl phthalate	50	22.6	45	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	46.9	94	40-140
118-74-1	Hexachlorobenzene	100	85.9	86	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-BS	W11049.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	100	31.9	32* [a]	40-140
67-72-1	Hexachloroethane	100	41.6	42	40-140
78-59-1	Isophorone	100	71.0	71	40-140
88-74-4	2-Nitroaniline	50	41.4	83	40-140
99-09-2	3-Nitroaniline	50	38.4	77	40-140
100-01-6	4-Nitroaniline	50	41.1	82	40-140
98-95-3	Nitrobenzene	100	60.3	60	40-140
62-75-9	n-Nitrosodimethylamine	50	19.5	39* [a]	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	32.0	64	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	40-140
110-86-1	Pyridine	50	15.6	31* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	37%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	80%	15-110%
4165-60-0	Nitrobenzene-d5	65%	30-130%
321-60-8	2-Fluorobiphenyl	75%	30-130%
1718-51-0	Terphenyl-d14	102%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32577-BS	I82501.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	33.4	67	40-140
208-96-8	Acenaphthylene	50	19.5	39* [a]	40-140
120-12-7	Anthracene	50	38.3	77	40-140
56-55-3	Benzo(a)anthracene	50	42.3	85	40-140
50-32-8	Benzo(a)pyrene	50	36.2	72	40-140
205-99-2	Benzo(b)fluoranthene	50	39.1	78	40-140
191-24-2	Benzo(g,h,i)perylene	50	43.7	87	40-140
207-08-9	Benzo(k)fluoranthene	50	41.4	83	40-140
218-01-9	Chrysene	50	39.8	80	40-140
53-70-3	Dibenzo(a,h)anthracene	50	39.5	79	40-140
206-44-0	Fluoranthene	50	41.2	82	40-140
86-73-7	Fluorene	50	34.7	69	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.0	78	40-140
90-12-0	1-Methylnaphthalene	50	29.7	59	40-140
91-57-6	2-Methylnaphthalene	50	28.7	57	40-140
85-01-8	Phenanthrene	50	39.2	78	40-140
129-00-0	Pyrene	50	40.4	81	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	59%	30-130%
321-60-8	2-Fluorobiphenyl	60%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-MS	W11050.D	1	04/11/13	KR	04/09/13	OP32575	MSW518
OP32575-MSD	W11051.D	1	04/11/13	KR	04/09/13	OP32575	MSW518
MC19626-15	W11052.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: Method: SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	MC19626-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	37.6	38	100	37.9	38	1	30-130/20
95-57-8	2-Chlorophenol	ND		100	62.0	62	100	62.6	63	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	76.6	77	100	77.2	77	1	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	75.7	76	100	76.4	76	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	64.1	64	100	66.6	67	4	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	80.3	80	100	83.0	83	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	79.1	79	100	85.8	86	8	30-130/20
95-48-7	2-Methylphenol	ND		100	59.7	60	100	61.7	62	3	30-130/20
	3&4-Methylphenol	ND		100	117	117	100	119	119	2	30-130/20
88-75-5	2-Nitrophenol	ND		100	73.2	73	100	75.2	75	3	30-130/20
100-02-7	4-Nitrophenol	ND		100	51.7	52	100	52.2	52	1	30-130/20
87-86-5	Pentachlorophenol	ND		100	71.4	71	100	76.4	76	7	30-130/20
108-95-2	Phenol	ND		100	30.0	30	100	29.3	29* [a]	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	84.8	85	100	86.5	87	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	77.3	77	100	81.2	81	5	30-130/20
62-53-3	Aniline	ND		50	18.3	37* [a]	50	18.3	37* [a]	0	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	41.7	83	50	40.9	82	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	44.5	89	50	41.9	84	6	40-140/20
100-51-6	Benzyl Alcohol	ND		50	6.5	13* [a]	50	5.5	11* [a]	17	40-140/20
91-58-7	2-Chloronaphthalene	ND		100	73.2	73	100	72.6	73	1	40-140/20
106-47-8	4-Chloroaniline	ND		50	31.3	63	50	31.5	63	1	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	37.8	76	50	36.8	74	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	36.9	74	50	36.9	74	0	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	38.1	76	50	38.3	77	1	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	40.8	82	50	39.8	80	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	42.4	85	50	43.7	87	3	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		100	86.2	86	100	87.4	87	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		100	113	113	100	115	115	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	43.5	87	50	43.4	87	0	40-140/20
132-64-9	Dibenzofuran	ND		50	38.9	78	50	38.4	77	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	41.6	83	50	40.7	81	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	47.9	96	50	47.1	94	2	40-140/20
84-66-2	Diethyl phthalate	ND		50	40.5	81	50	38.5	77	5	40-140/20
131-11-3	Dimethyl phthalate	ND		50	36.9	74	50	31.3	63	16	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	42.4	85	50	42.2	84	0	40-140/20
118-74-1	Hexachlorobenzene	ND		100	89.0	89	100	89.3	89	0	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32575-MS	W11050.D	1	04/11/13	KR	04/09/13	OP32575	MSW518
OP32575-MSD	W11051.D	1	04/11/13	KR	04/09/13	OP32575	MSW518
MC19626-15	W11052.D	1	04/11/13	KR	04/09/13	OP32575	MSW518

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	MC19626-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		100	40.0	40	100	37.6	38* [a]	6	40-140/20
67-72-1	Hexachloroethane	ND		100	49.0	49	100	49.0	49	0	40-140/20
78-59-1	Isophorone	ND		100	81.4	81	100	80.8	81	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	42.4	85	50	42.4	85	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	36.9	74	50	37.6	75	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	40.4	81	50	41.0	82	1	40-140/20
98-95-3	Nitrobenzene	ND		100	70.0	70	100	71.5	72	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	22.4	45	50	22.3	45	0	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	37.1	74	50	36.1	72	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	41.9	84	50	42.0	84	0	40-140/20
110-86-1	Pyridine	ND		50	18.4	37* [a]	50	17.7	35* [a]	4	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19626-15	Limits
367-12-4	2-Fluorophenol	42%	42%	37%	15-110%
4165-62-2	Phenol-d5	31%	30%	27%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	80%	75%	15-110%
4165-60-0	Nitrobenzene-d5	75%	74%	65%	30-130%
321-60-8	2-Fluorobiphenyl	83%	80%	68%	30-130%
1718-51-0	Terphenyl-d14	82%	84%	92%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32577-MS	I82502.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
OP32577-MSD	I82503.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068
MC19577-2	I82504.D	1	04/10/13	NS	04/09/13	OP32577	MSI3068

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19576-1, MC19576-2, MC19576-3, MC19576-4

CAS No.	Compound	MC19577-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	35.8	72	50	35.3	71	1	40-140/20
208-96-8	Acenaphthylene	ND		50	20.6	41	50	18.5	37* [a]	11	40-140/20
120-12-7	Anthracene	0.063	J	50	38.5	77	50	39.5	79	3	40-140/20
56-55-3	Benzo(a)anthracene	0.092		50	41.3	82	50	39.0	78	6	40-140/20
50-32-8	Benzo(a)pyrene	0.051	J	50	35.3	70	50	33.0	66	7	40-140/20
205-99-2	Benzo(b)fluoranthene	0.052		50	38.6	77	50	35.0	70	10	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	41.5	83	50	38.5	77	8	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	39.6	79	50	36.8	74	7	40-140/20
218-01-9	Chrysene	ND		50	38.8	78	50	36.5	73	6	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	37.5	75	50	32.6	65	14	40-140/20
206-44-0	Fluoranthene	0.12		50	40.8	81	50	40.2	80	1	40-140/20
86-73-7	Fluorene	ND		50	36.5	73	50	36.7	73	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	36.9	74	50	32.7	65	12	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	33.8	68	50	34.3	69	1	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	33.0	66	50	32.6	65	1	40-140/20
85-01-8	Phenanthrene	0.19		50	38.9	77	50	39.2	78	1	40-140/20
129-00-0	Pyrene	0.17		50	40.2	80	50	39.7	79	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19577-2	Limits
4165-60-0	Nitrobenzene-d5	68%	67%	56%	30-130%
321-60-8	2-Fluorobiphenyl	68%	63%	59%	30-130%
1718-51-0	Terphenyl-d14	69%	67%	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3068-CC3044	**Injection Date:**	04/10/13
Lab File ID:	I82490.D	**Injection Time:**	15:57
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	188879	3.41	479349	4.37	272937	5.77	516525	7.01	409643	9.74	775854	11.13
Upper Limit [a]	377758	3.91	958698	4.87	545874	6.27	1033050	7.51	819286	10.24	1551708	11.63
Lower Limit [b]	94440	2.91	239675	3.87	136469	5.27	258263	6.51	204822	9.24	387927	10.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32586-MB	186148	3.41	476290	4.37	263071	5.77	480709	7.01	350340	9.73	671659	11.12
OP32586-BS	192086	3.41	528552	4.37	260649	5.77	524303	7.01	374850	9.74	713553	11.13
OP32586-MS	187193	3.41	478044	4.37	238055	5.77	427451	7.01	330004	9.74	621086	11.13
OP32586-MSD	211906	3.41	526096	4.38	263765	5.77	454889	7.01	330819	9.74	669284	11.13
ZZZZZZ	186206	3.41	491322	4.37	213083	5.77	395765	7.01	266336	9.73	543806	11.13
ZZZZZZ	155269	3.41	431722	4.37	215516	5.77	317984	7.01	277041	9.73	515007	11.12
MC19527-3	142609	3.41	387857	4.37	196669	5.77	341084	7.01	294610	9.73	554903	11.12
ZZZZZZ	154167	3.41	413280	4.37	205626	5.77	356914	7.01	254098	9.73	537064	11.12
ZZZZZZ	213984	3.41	536884	4.37	271355	5.77	447465	7.01	318578	9.73	574154	11.13
OP32577-MB	126658	3.41	348820	4.37	182205	5.77	319506	7.01	269856	9.73	513783	11.12
OP32577-BS	132629	3.41	346784	4.37	182291	5.77	335337	7.01	264159	9.74	497931	11.13
OP32577-MS	139488	3.41	360483	4.37	185990	5.77	337980	7.01	272712	9.73	519548	11.13
OP32577-MSD	139698	3.41	358807	4.37	198133	5.77	390590	7.01	296528	9.74	548631	11.13
MC19577-2	129946	3.41	370486	4.37	217293	5.77	312725	7.01	316696	9.73	634543	11.12
ZZZZZZ	164987	3.41	430306	4.37	188239	5.77	338643	7.01	286448	9.73	632424	11.12
ZZZZZZ	128144	3.41	348914	4.37	173447	5.77	300600	7.01	244112	9.73	475987	11.12
MC19576-1	141750	3.41	365913	4.37	184192	5.77	307478	7.01	249079	9.73	485852	11.13
MC19576-2	119266	3.41	320801	4.37	161925	5.77	289614	7.01	238170	9.73	459277	11.13
MC19576-3	124868	3.41	331919	4.37	172362	5.77	300529	7.01	247128	9.73	478256	11.13
MC19576-4	118084	3.41	324107	4.37	167458	5.77	296698	7.01	255628	9.73	492102	11.13
ZZZZZZ	135670	3.41	365003	4.37	189132	5.77	333927	7.01	279191	9.73	526390	11.13
ZZZZZZ	116884	3.41	305680	4.37	164128	5.77	298670	7.01	254730	9.73	492064	11.13
ZZZZZZ	106302	3.41	288524	4.37	155254	5.77	291534	7.01	262476	9.73	507634	11.13
ZZZZZZ	139095	3.41	381086	4.37	205056	5.77	385728	7.01	341385	9.73	650933	11.12
ZZZZZZ	172947	3.41	502911	4.37	257890	5.77	454005	7.01	361338	9.73	676768	11.13
ZZZZZZ	166839	3.42	530891	4.38	265341	5.77	477038	7.01	382365	9.73	714571	11.12
ZZZZZZ	157846	3.41	460984	4.38	251427	5.77	456852	7.01	372604	9.73	702470	11.13
ZZZZZZ	142605	3.41	388006	4.38	219905	5.78	386012	7.03	321655	9.74	606486	11.13
ZZZZZZ	150360	3.41	393327	4.37	206870	5.77	381759	7.01	305710	9.73	632170	11.13

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3068-CC3044	**Injection Date:**	04/10/13
Lab File ID:	I82490.D	**Injection Time:**	15:57
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW518-CC505	**Injection Date:**	04/11/13
Lab File ID:	W11047.D	**Injection Time:**	12:14
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	61492	3.65	235731	4.64	156384	6.06	273268	7.35	338493	10.23	308530	11.80
Upper Limit [a]	122984	4.15	471462	5.14	312768	6.56	546536	7.85	676986	10.73	617060	12.30
Lower Limit [b]	30746	3.15	117866	4.14	78192	5.56	136634	6.85	169247	9.73	154265	11.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32575-MB	51134	3.65	193283	4.63	123573	6.06	221195	7.35	262862	10.21	250881	11.80
OP32576-MB	51134	3.65	193283	4.63	123573	6.06	221195	7.35	262862	10.21	250881	11.80
OP32575-BS	51004	3.65	189668	4.63	121074	6.06	217563	7.35	260062	10.21	240427	11.80
OP32576-BS	51004	3.65	189668	4.63	121074	6.06	217563	7.35	260062	10.21	240427	11.80
OP32575-MS	51820	3.65	195264	4.63	127426	6.06	225103	7.35	274516	10.22	252630	11.80
OP32576-MS	51820	3.65	195264	4.63	127426	6.06	225103	7.35	274516	10.22	252630	11.80
OP32575-MSD	48469	3.65	181266	4.63	118727	6.06	209189	7.35	254310	10.22	235082	11.80
OP32576-MSD	48469	3.65	181266	4.63	118727	6.06	209189	7.35	254310	10.22	235082	11.80
MC19626-16	51875	3.65	193815	4.63	124830	6.06	223130	7.35	263293	10.21	249438	11.79
MC19626-15	51875	3.65	193815	4.63	124830	6.06	223130	7.35	263293	10.21	249438	11.79
ZZZZZZ	51231	3.65	190489	4.63	122288	6.06	220782	7.34	255987	10.21	245984	11.79

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW521-CC505	**Injection Date:**	04/12/13
Lab File ID:	W11107.D	**Injection Time:**	14:30
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	84549	3.63	321678	4.62	215424	6.05	376170	7.33	473246	10.20	438946	11.77
Upper Limit [a]	169098	4.13	643356	5.12	430848	6.55	752340	7.83	946492	10.70	877892	12.27
Lower Limit [b]	42275	3.13	160839	4.12	107712	5.55	188085	6.83	236623	9.70	219473	11.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	78247	3.63	297321	4.62	191716	6.04	343596	7.32	401335	10.19	387025	11.77
ZZZZZZ	84073	3.63	315672	4.62	206239	6.04	367267	7.32	430076	10.19	418445	11.77
ZZZZZZ	80322	3.63	307353	4.62	198174	6.04	349001	7.32	408786	10.19	396579	11.77
ZZZZZZ	80552	3.63	309983	4.62	202919	6.04	361353	7.32	423466	10.19	409412	11.77
ZZZZZZ	78320	3.63	297803	4.62	192284	6.04	337834	7.32	393289	10.19	379148	11.77
ZZZZZZ	77807	3.63	296576	4.62	190855	6.04	341439	7.32	400370	10.19	386034	11.77
ZZZZZZ	78697	3.63	299139	4.62	193163	6.04	337846	7.32	392469	10.19	384481	11.77
ZZZZZZ	78578	3.63	299146	4.62	195819	6.04	343470	7.32	401027	10.19	388358	11.77
ZZZZZZ	77025	3.63	287559	4.62	187184	6.04	331933	7.32	388370	10.19	371815	11.77
ZZZZZZ	78798	3.63	299216	4.62	191329	6.04	337666	7.32	395903	10.19	378123	11.77
ZZZZZZ	79362	3.63	295626	4.62	191710	6.04	336771	7.32	387074	10.19	378834	11.77
ZZZZZZ	74513	3.63	281792	4.62	180095	6.04	320988	7.32	372188	10.19	357212	11.77
MC19576-1	84234	3.63	318822	4.62	209502	6.04	378510	7.32	451438	10.19	428763	11.77
MC19576-2	85361	3.63	322090	4.62	211813	6.04	382237	7.32	444844	10.19	429737	11.77
MC19576-3	87109	3.63	326457	4.62	213346	6.04	381642	7.32	449146	10.19	431882	11.77
MC19576-4	86160	3.63	326394	4.62	211730	6.04	375785	7.32	438858	10.19	426270	11.77
MC19597-35	72689	3.63	273509	4.62	181661	6.04	314582	7.32	374249	10.19	371829	11.77
ZZZZZZ	76005	3.63	287593	4.62	180283	6.04	312693	7.32	355676	10.19	344946	11.77
ZZZZZZ	74044	3.63	276530	4.62	179559	6.04	311078	7.32	360283	10.19	358255	11.77
ZZZZZZ	72364	3.63	270007	4.62	175712	6.04	305311	7.32	356327	10.19	351220	11.77
ZZZZZZ	72150	3.63	277763	4.62	180442	6.04	321173	7.32	385840	10.19	376553	11.77
ZZZZZZ	74438	3.63	280554	4.62	182233	6.04	320742	7.32	372265	10.19	363876	11.77
ZZZZZZ	75289	3.63	279740	4.62	181842	6.04	319056	7.32	374220	10.19	365335	11.77
ZZZZZZ	71272	3.63	269259	4.62	172705	6.04	301788	7.32	342220	10.19	340027	11.77
ZZZZZZ	73282	3.63	280542	4.62	180723	6.04	318419	7.32	371174	10.19	361128	11.77
ZZZZZZ	73691	3.63	276707	4.62	179718	6.04	316474	7.32	371697	10.19	367091	11.77
ZZZZZZ	73921	3.63	280761	4.62	180457	6.04	321153	7.32	373192	10.19	364063	11.77
ZZZZZZ	71484	3.63	274018	4.62	175188	6.04	317589	7.32	366922	10.19	359593	11.77
ZZZZZZ	72345	3.63	272602	4.62	176397	6.04	306600	7.32	360990	10.19	349153	11.77

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW521-CC505	**Injection Date:**	04/12/13
Lab File ID:	W11107.D	**Injection Time:**	14:30
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19576-1	W11120.D	22	17	61	68	70	87
MC19576-2	W11121.D	29	24	69	70	69	77
MC19576-3	W11122.D	24	18	64	71	70	72
MC19576-4	W11123.D	27	20	68	72	72	82
OP32575-BS	W11049.D	37	27	80	65	75	102
OP32575-MB	W11048.D	40	29	78	72	74	102
OP32575-MS	W11050.D	42	31	72	75	83	82
OP32575-MSD	W11051.D	42	30	80	74	80	84

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19576-1	I82507.D	63	61	69
MC19576-2	I82508.D	62	58	63
MC19576-3	I82509.D	65	60	58
MC19576-4	I82510.D	65	60	67
OP32577-BS	I82501.D	59	60	80
OP32577-MB	I82500.D	64	62	85
OP32577-MS	I82502.D	68	68	69
OP32577-MSD	I82503.D	67	63	67

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MB	BK23581.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	113%	36-173%

Blank Spike Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-BS	BK23582.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.076	107	60-140
106-93-4	1,2-Dibromoethane	0.071	0.092	130	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	108%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MS	BK23583.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
OP32677-MSD	BK23584.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
MC19670-4	BK23585.D	1	04/17/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19576-1, MC19576-2, MC19576-3, MC19576-4, MC19576-6

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0694	0.078	112	0.0688	0.080	116	3	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0694	0.086	124	0.0688	0.091	132	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
460-00-4	Bromofluorobenzene (S)	117%	122%	108%	36-173%
460-00-4	Bromofluorobenzene (S)	121%	125%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19576-1	BK23586.D	119	125
MC19576-2	BK23587.D	116	120
MC19576-3	BK23588.D	116	116
MC19576-4	BK23589.D	113	116
MC19576-6	BK23590.D	117	125
OP32677-BS	BK23582.D	108	112
OP32677-MB	BK23581.D	109	113
OP32677-MS	BK23583.D	117	121
OP32677-MSD	BK23584.D	122	125

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19576
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK829-ICC829	**Injection Date:**	04/16/13
Lab File ID:	BK23576.D	**Injection Time:**	21:25
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.44	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP32677-MB	BK23581.D	04/16/13	23:29	4.45	4.88
OP32677-BS	BK23582.D	04/16/13	23:56	4.45	4.88
OP32677-MS	BK23583.D	04/17/13	00:22	4.45	4.88
OP32677-MSD	BK23584.D	04/17/13	00:48	4.45	4.88
MC19670-4	BK23585.D	04/17/13	01:15	4.45	4.88
MC19576-1	BK23586.D	04/17/13	01:42	4.45	4.88
MC19576-2	BK23587.D	04/17/13	02:09	4.45	4.88
MC19576-3	BK23588.D	04/17/13	02:35	4.45	4.88
MC19576-4	BK23589.D	04/17/13	03:01	4.45	4.88
MC19576-6	BK23590.D	04/17/13	03:28	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19612

Sampling Date: 04/05/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 89

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 24, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19612

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC19612

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19612-1	04/05/13	11:35	LRMM	04/06/13	AQ	Ground Water	ROST3MW-ROX-040513
MC19612-2	04/05/13	13:30	LRMM	04/06/13	AQ	Ground Water	MW22-ROX-040513
MC19612-3	04/05/13	14:30	LRMM	04/06/13	AQ	Ground Water	MW24-ROX-040513
MC19612-4	04/05/13	00:00	LRMM	04/06/13	AQ	Trip Blank Water	TB-ROX-040513-HCL
MC19612-5	04/05/13	00:00	LRMM	04/06/13	AQ	Trip Blank Water	TB-ROX-040513-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shell Oil	**Job No**	MC19612
Site:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Centra	**Report Date**	10/24/2016 6:17:17 P

3 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were collected on 04/05/2013 and were received at SGS Accutest New England on 04/06/2013 properly preserved, at 0.2 Deg. C and intact. These Samples received a job number of MC19612. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH1998

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19661-24MS, MC19661-24MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acetone, Acrolein are outside control limits. Blank Spike Dup Recovery(s) for Acrolein are outside control limits.
- Matrix Spike Recovery(s) for Acrolein are outside control limits. Outside control limits due to possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acrolein are outside control limits. Probable cause due to matrix interference.
- MC19612-3 for Acrolein: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

Matrix: AQ **Batch ID:** MSV696

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19614-2MS, MC19614-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acetone, Acrolein, Bromomethane are outside control limits. Blank Spike Dup Recovery(s) for Acetone, Acrolein, Naphthalene are outside control limits.
- Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Bromomethane, Chloromethane are outside control limits. Outside control limits due to possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Naphthalene are outside control limits. Probable cause due to matrix interference.
- MC19612-4 for Acetone: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
- Dichlorodifluoromethane: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP32596

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19700-3MS, MC19700-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Aniline, Hexachlorocyclopentadiene, n-Nitrosodimethylamine, Phenol, Pyridine are outside control limits. Blank Spike Dup Recovery(s) for Aniline, n-Nitrosodimethylamine, Phenol, Pyridine are outside control limits.
- Matrix Spike Recovery(s) for Aniline, Hexachlorocyclopentadiene, n-Nitrosodimethylamine, Phenol, Pyridine are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Pyridine are outside control limits. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD(s) for MSD for 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Chlorophenol, 2-Methylphenol, 2-Nitrophenol, 3&4-Methylphenol, Benzyl Alcohol, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Isophorone, n-Nitrosodimethylamine, Naphthalene, Nitrobenzene, Phenol, Pyridine are outside control limits for sample OP32596-MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32597

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC19700-4MS, MC19700-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Acenaphthylene are outside control limits.
- Matrix Spike Recovery(s) for Acenaphthylene are outside control limits. Probable cause due to matrix interference.

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32677

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.
- Initial Calibration Verification standard for 4-Bromofluorobenzene exceeded criteria. Target recovery satisfactory.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC19612).

Summary of Hits

Job Number: MC19612
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19612-1	ROST3MW-ROX-040513					
Benzene		60.5	0.50	0.24	ug/l	SW846 8260B
sec-Butylbenzene		1.1 J	5.0	0.55	ug/l	SW846 8260B
Ethylbenzene		13.6	1.0	0.51	ug/l	SW846 8260B
Isopropylbenzene		3.2 J	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		1.2 J	5.0	0.57	ug/l	SW846 8260B
Naphthalene		132	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		8.2	5.0	0.58	ug/l	SW846 8260B
Toluene		7.6	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		53.1	5.0	0.35	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		14.5	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		60.3	1.0	0.73	ug/l	SW846 8260B
o-Xylene		12.6	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		72.9	1.0	0.58	ug/l	SW846 8260B
Di-n-butyl phthalate		0.44 J	5.4	0.42	ug/l	SW846 8270C
Acenaphthene		0.16	0.11	0.015	ug/l	SW846 8270C BY SIM
Fluorene		0.17	0.11	0.050	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		2.9	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		3.9	0.22	0.056	ug/l	SW846 8270C BY SIM
Phenanthrene		0.55	0.054	0.014	ug/l	SW846 8270C BY SIM
MC19612-2	MW22-ROX-040513					
Benzene		1500	25	12	ug/l	SW846 8260B
n-Butylbenzene		41.3	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		14.2	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		17.1	5.0	0.64	ug/l	SW846 8260B
Ethylbenzene		2440	50	25	ug/l	SW846 8260B
Isopropylbenzene		159	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		12.2	5.0	0.57	ug/l	SW846 8260B
4-Methyl-2-pentanone (MIBK)		12.4	5.0	2.9	ug/l	SW846 8260B
Naphthalene		286	250	25	ug/l	SW846 8260B
n-Propylbenzene		290	5.0	0.58	ug/l	SW846 8260B
Toluene		6140	50	25	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		931	250	17	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		379	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		5150	50	37	ug/l	SW846 8260B
o-Xylene		2640	50	29	ug/l	SW846 8260B
Xylene (total)		7790	50	29	ug/l	SW846 8260B
2,4-Dimethylphenol		26.9	11	1.2	ug/l	SW846 8270C
2-Methylphenol		23.6	11	1.4	ug/l	SW846 8270C
3&4-Methylphenol		40.3	11	2.2	ug/l	SW846 8270C
Phenol		12.3	5.3	0.54	ug/l	SW846 8270C
Di-n-butyl phthalate		0.57 J	5.3	0.41	ug/l	SW846 8270C

Summary of Hits

Job Number: MC19612
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		250	21	1.8	ug/l	SW846 8270C
Acenaphthene		0.18	0.11	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.049 J	0.11	0.014	ug/l	SW846 8270C BY SIM
Fluorene		0.18	0.11	0.049	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		24.1	0.21	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		41.3	0.21	0.055	ug/l	SW846 8270C BY SIM
Phenanthrene		0.19	0.053	0.013	ug/l	SW846 8270C BY SIM
MC19612-3	**MW24-ROX-040513**					
Benzene		2.9	0.50	0.24	ug/l	SW846 8260B
Ethylbenzene		1.2	1.0	0.51	ug/l	SW846 8260B
Toluene		1.4	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.51 J	5.0	0.35	ug/l	SW846 8260B
m,p-Xylene		2.1	1.0	0.73	ug/l	SW846 8260B
o-Xylene		0.90 J	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		3.0	1.0	0.58	ug/l	SW846 8260B
Di-n-butyl phthalate		0.49 J	5.2	0.40	ug/l	SW846 8270C
Benzo(b)fluoranthene		0.057	0.052	0.024	ug/l	SW846 8270C BY SIM
Fluoranthene		0.088 J	0.10	0.034	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		0.15 J	0.21	0.054	ug/l	SW846 8270C BY SIM
Pyrene		0.066 J	0.10	0.037	ug/l	SW846 8270C BY SIM
MC19612-4	**TB-ROX-040513-HCL**					
Acetone [a]		3.2 J	5.0	3.0	ug/l	SW846 8260B
MC19612-5	**TB-ROX-040513-ST**					

No hits reported in this sample.

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17562.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	60.5	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	1.1	5.0	0.55	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	13.6	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	3.2	5.0	0.50	ug/l	J
99-87-6	p-Isopropyltoluene	1.2	5.0	0.57	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	132	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	8.2	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	7.6	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	53.1	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	14.5	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	60.3	1.0	0.73	ug/l	
95-47-6	o-Xylene	12.6	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	72.9	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F62991.D	1	04/12/13	KR	04/10/13	OP32596	MSF2946
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	0.44	5.4	0.42	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	68%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82566.D	1	04/12/13	NS	04/10/13	OP32597	MSI3070
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.16	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.063	ug/l	
218-01-9	Chrysene	ND	0.11	0.078	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	0.17	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	2.9	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	3.9	0.22	0.056	ug/l	
85-01-8	Phenanthrene	0.55	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	55%		30-130%
1718-51-0	Terphenyl-d14	61%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-040513		
Lab Sample ID:	MC19612-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23617.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	116%		36-173%
460-00-4	Bromofluorobenzene (S)	114%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17561.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2	H60442.D	50	04/17/13	GK	n/a	n/a	MSH1998

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	1500 [b]	25	12	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	41.3	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	14.2	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	17.1	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	2440 [b]	50	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	159	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	12.2	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	12.4	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	286 [b]	250	25	ug/l	
103-65-1	n-Propylbenzene	290	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	6140 [b]	50	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	931 [b]	250	17	ug/l	
108-67-8	1,3,5-Trimethylbenzene	379	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	5150 [b]	50	37	ug/l	
95-47-6	o-Xylene	2640 [b]	50	29	ug/l	
1330-20-7	Xylene (total)	7790 [b]	50	29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	91%	70-130%
2037-26-5	Toluene-D8	108%	104%	70-130%
460-00-4	4-Bromofluorobenzene	96%	112%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F62992.D	1	04/12/13	KR	04/10/13	OP32596	MSF2946
Run #2	U13682.D	10	04/18/13	NS	04/10/13	OP32596	MSU693

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	26.9	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	23.6	11	1.4	ug/l	
	3&4-Methylphenol	40.3	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	12.3	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	0.57	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
91-20-3	Naphthalene	250 [a]	21	1.8	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%	44%	15-110%
4165-62-2	Phenol-d5	31%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	86%	76%	15-110%
4165-60-0	Nitrobenzene-d5	68%	64%	30-130%
321-60-8	2-Fluorobiphenyl	60%	61%	30-130%
1718-51-0	Terphenyl-d14	62%	57%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82567.D	1	04/12/13	NS	04/10/13	OP32597	MSI3070
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.18	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	0.049	0.11	0.014	ug/l	J
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	0.18	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	24.1	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	41.3	0.21	0.055	ug/l	
85-01-8	Phenanthrene	0.19	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		30-130%
321-60-8	2-Fluorobiphenyl	55%		30-130%
1718-51-0	Terphenyl-d14	59%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-040513		
Lab Sample ID:	MC19612-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23618.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	131%		36-173%
460-00-4	Bromofluorobenzene (S)	120%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60435.D	1	04/17/13	GK	n/a	n/a	MSH1998
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	2.9	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	1.4	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.51	5.0	0.35	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	2.1	1.0	0.73	ug/l	
95-47-6	o-Xylene	0.90	1.0	0.58	ug/l	J
1330-20-7	Xylene (total)	3.0	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F62993.D	1	04/12/13	KR	04/10/13	OP32596	MSF2946
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.49	5.2	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		15-110%
4165-62-2	Phenol-d5	26%		15-110%
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	55%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82568.D	1	04/12/13	NS	04/10/13	OP32597	MSI3070
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	0.057	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	0.088	0.10	0.034	ug/l	J
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	0.15	0.21	0.054	ug/l	J
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	0.066	0.10	0.037	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		30-130%
321-60-8	2-Fluorobiphenyl	53%		30-130%
1718-51-0	Terphenyl-d14	52%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-040513		
Lab Sample ID:	MC19612-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23619.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	112%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCL		
Lab Sample ID:	MC19612-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17549.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	3.2	5.0	3.0	ug/l	J
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCL		
Lab Sample ID:	MC19612-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCL		
Lab Sample ID:	MC19612-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-ST		
Lab Sample ID:	MC19612-5	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23620.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	114%		36-173%
460-00-4	Bromofluorobenzene (S)	113%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

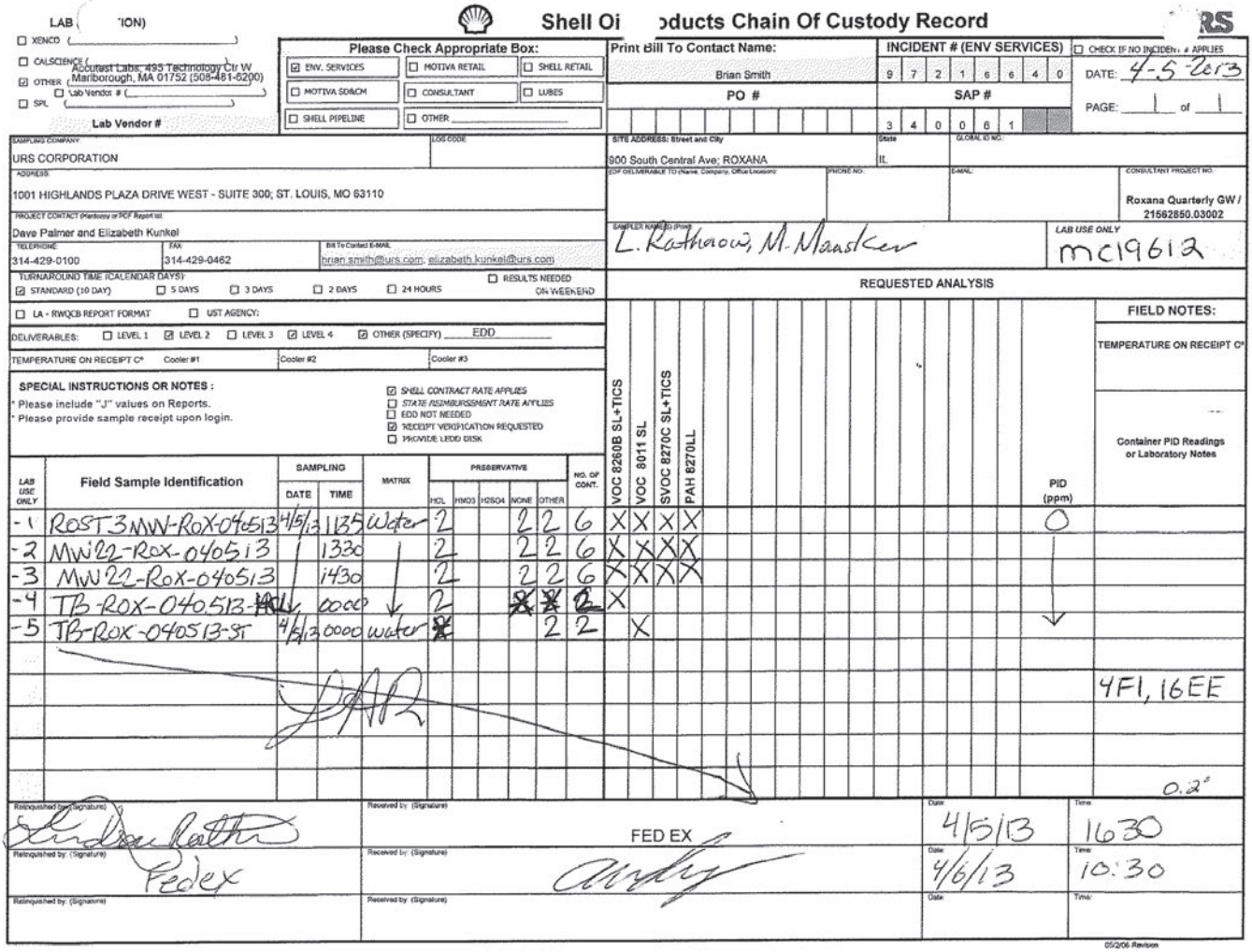
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (ION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Shell Oi oducts Chain Of Custody Record

RS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith

PO #

INCIDENT # (ENV SERVICES) 9 7 2 1 6 6 4 0

SAP # 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 4-5-2013

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SAMPLER NAME(S) (Print): L. Rathnow, M. Mansker
LAB USE ONLY: mc19612

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	ROST3MW-ROX-040513	4/5/13	1135	Water	2			2	2	6	X	X	X	X	0	
-2	MW22-ROX-040513	↓	1330	↓	2			2	2	6	X	X	X	X	↓	
-3	MW22-ROX-040513	↓	1430	↓	2			2	2	6	X	X	X	X	↓	
-4	TB-ROX-040513-HCL	↓	0000	↓	2			~~X~~	~~X~~	~~2~~	X				↓	
-5	TB-ROX-040513-ST	4/5/13	0000	water	~~X~~				2	2		X			↓	
																4F1, 16EE
																0.2°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX	4/5/13	1630
Fedex	[signature]	4/6/13	10:30

05/2/06 Revision

5.1

5

MC19612: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19612 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/6/2013 **Delivery Method:**

Project: 900 SOUTH CENTRAL **No. Coolers:** **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☐		☑

Sample Integrity - Condition	Y	or	N
1. Sample rec'd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-2 one HCL vial was received broken, one remains.
-3 ID on bottles reads MW24, but coc says MW22.

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: MC19612

CSR: Jeremy Vienneau **Response Date:** 4/10/2013

Response: Client advised that -3 should be MW24-ROX-040512. See email in file.

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC19612: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19612

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19612-1 Collected: 05-APR-13 11:35 By: LRMM Received: 06-APR-13 By: ROST3MW-ROX-040513						
MC19612-1	SW846 8270C BY SIM	12-APR-13 09:39	NS	10-APR-13	SC	B8270SIMSL
MC19612-1	SW846 8270C	12-APR-13 14:37	KR	10-APR-13	SC	AB8270SL+
MC19612-1	SW846 8260B	16-APR-13 18:52	AMY			V8260SL+
MC19612-1	SW846 8011	17-APR-13 15:53	NK	15-APR-13	PA	V8011SL
MC19612-2 Collected: 05-APR-13 13:30 By: LRMM Received: 06-APR-13 By: MW22-ROX-040513						
MC19612-2	SW846 8270C BY SIM	12-APR-13 10:01	NS	10-APR-13	SC	B8270SIMSL
MC19612-2	SW846 8270C	12-APR-13 15:01	KR	10-APR-13	SC	AB8270SL+
MC19612-2	SW846 8260B	16-APR-13 18:25	AMY			V8260SL+
MC19612-2	SW846 8260B	17-APR-13 14:13	GK			V8260SL+
MC19612-2	SW846 8011	17-APR-13 16:16	NK	15-APR-13	PA	V8011SL
MC19612-2	SW846 8270C	18-APR-13 11:53	NS	10-APR-13	SC	AB8270SL+
MC19612-3 Collected: 05-APR-13 14:30 By: LRMM Received: 06-APR-13 By: MW24-ROX-040513						
MC19612-3	SW846 8270C BY SIM	12-APR-13 10:25	NS	10-APR-13	SC	B8270SIMSL
MC19612-3	SW846 8270C	12-APR-13 15:25	KR	10-APR-13	SC	AB8270SL+
MC19612-3	SW846 8260B	17-APR-13 11:00	GK			V8260SL+
MC19612-3	SW846 8011	17-APR-13 16:39	NK	15-APR-13	PA	V8011SL
MC19612-4 Collected: 05-APR-13 00:00 By: LRMM Received: 06-APR-13 By: TB-ROX-040513-HCL						
MC19612-4	SW846 8260B	16-APR-13 13:07	AMY			V8260SL+
MC19612-5 Collected: 05-APR-13 00:00 By: LRMM Received: 06-APR-13 By: TB-ROX-040513-ST						
MC19612-5	SW846 8011	17-APR-13 17:02	NK	15-APR-13	PA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/06/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19612-1.2	Walk In Ref #22	Michael Rolo	04/10/13 07:50	Retrieve from Storage
MC19612-1.2	Michael Rolo		04/11/13 07:20	Depleted
MC19612-1.3	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19612-1.3	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19612-1.3	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19612-1.3	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19612-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC19612-1.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19612-1.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19612-1.5	Scott Parsick		07/24/13 13:54	Disposed
MC19612-2.2	Walk In Ref #22	Michael Rolo	04/10/13 07:50	Retrieve from Storage
MC19612-2.2	Michael Rolo		04/11/13 07:20	Depleted
MC19612-2.3	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19612-2.3	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19612-2.3	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19612-2.3	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19612-2.3	Scott Parsick		07/24/13 13:54	Disposed
MC19612-2.6	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19612-2.6	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19612-2.6	Scott Parsick		07/24/13 13:54	Disposed
MC19612-3.2	Walk In Ref #22	Michael Rolo	04/10/13 07:50	Retrieve from Storage
MC19612-3.2	Michael Rolo		04/11/13 07:20	Depleted
MC19612-3.3	VOC Ref #4	Kerry Ryan	04/17/13 09:49	Retrieve from Storage
MC19612-3.3	Kerry Ryan	GCMSH	04/17/13 09:49	Load on Instrument
MC19612-3.3	GCMSH	Kerry Ryan	04/18/13 08:04	Unload from Instrument
MC19612-3.3	Kerry Ryan	VOC Ref #4	04/18/13 08:04	Return to Storage
MC19612-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19612-3.4	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19612-3.4	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19612-3.4	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19612-3.4	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19612-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19612-3.6	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19612-3.6	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19612-3.6	Scott Parsick		07/24/13 13:54	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/06/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19612-4.1	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19612-4.1	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19612-4.1	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19612-4.1	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19612-4.1	Scott Parsick		07/24/13 13:54	Disposed
MC19612-5.2	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19612-5.2	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19612-5.2	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-MB	H60433.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-MB	H60433.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-MB	H60433.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	112%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	70.1	140* [a]	70.0	140* [a]	0	70-130/25
107-02-8	Acrolein	250	98.7	39* [a]	96.8	39* [a]	2	70-130/25
107-13-1	Acrylonitrile	50	60.8	122	59.3	119	2	70-130/25
71-43-2	Benzene	50	53.9	108	53.1	106	1	70-130/25
108-86-1	Bromobenzene	50	56.8	114	55.8	112	2	70-130/25
74-97-5	Bromochloromethane	50	56.4	113	55.9	112	1	70-130/25
75-27-4	Bromodichloromethane	50	53.7	107	53.5	107	0	70-130/25
75-25-2	Bromoform	50	42.5	85	43.0	86	1	70-130/25
74-83-9	Bromomethane	50	68.0	136* [a]	64.7	129	5	70-130/25
78-93-3	2-Butanone (MEK)	50	63.2	126	63.8	128	1	70-130/25
104-51-8	n-Butylbenzene	50	61.1	122	60.2	120	1	70-130/25
135-98-8	sec-Butylbenzene	50	56.9	114	55.5	111	2	70-130/25
98-06-6	tert-Butylbenzene	50	56.2	112	54.6	109	3	70-130/25
75-15-0	Carbon disulfide	50	56.0	112	54.3	109	3	70-130/25
56-23-5	Carbon tetrachloride	50	52.9	106	51.5	103	3	70-130/25
108-90-7	Chlorobenzene	50	54.4	109	53.4	107	2	70-130/25
75-00-3	Chloroethane	50	62.4	125	59.2	118	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	49.4	99	49.9	100	1	70-130/25
67-66-3	Chloroform	50	54.8	110	53.9	108	2	70-130/25
74-87-3	Chloromethane	50	64.5	129	63.0	126	2	70-130/25
95-49-8	o-Chlorotoluene	50	54.6	109	53.8	108	1	70-130/25
106-43-4	p-Chlorotoluene	50	56.7	113	55.9	112	1	70-130/25
124-48-1	Dibromochloromethane	50	47.1	94	47.2	94	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	55.6	111	55.1	110	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	54.9	110	54.0	108	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	57.4	115	56.2	112	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	51.6	103	50.7	101	2	70-130/25
75-34-3	1,1-Dichloroethane	50	56.5	113	55.6	111	2	70-130/25
107-06-2	1,2-Dichloroethane	50	54.2	108	54.0	108	0	70-130/25
75-35-4	1,1-Dichloroethene	50	57.8	116	56.3	113	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	54.4	109	53.5	107	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	55.6	111	54.5	109	2	70-130/25
78-87-5	1,2-Dichloropropane	50	53.7	107	53.3	107	1	70-130/25
142-28-9	1,3-Dichloropropane	50	54.3	109	54.1	108	0	70-130/25
594-20-7	2,2-Dichloropropane	50	57.8	116	56.0	112	3	70-130/25
563-58-6	1,1-Dichloropropene	50	55.0	110	54.0	108	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: Method: SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	52.7	105	52.8	106	0	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	48.7	97	48.9	98	0	70-130/25
123-91-1	1,4-Dioxane	250	253	101	260	104	3	70-130/25
97-63-2	Ethyl methacrylate	50	52.2	104	52.3	105	0	77-137/25
100-41-4	Ethylbenzene	50	57.5	115	56.6	113	2	70-130/25
87-68-3	Hexachlorobutadiene	50	54.3	109	54.8	110	1	70-130/25
591-78-6	2-Hexanone	50	59.5	119	59.9	120	1	70-130/25
98-82-8	Isopropylbenzene	50	56.1	112	55.1	110	2	70-130/25
99-87-6	p-Isopropyltoluene	50	61.5	123	60.8	122	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	49.4	99	49.7	99	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.9	100	50.4	101	1	70-130/25
74-95-3	Methylene bromide	50	54.8	110	55.1	110	1	70-130/25
75-09-2	Methylene chloride	50	55.7	111	55.3	111	1	70-130/25
91-20-3	Naphthalene	50	62.2	124	65.8	132* [a]	6	70-130/25
103-65-1	n-Propylbenzene	50	56.2	112	54.9	110	2	70-130/25
100-42-5	Styrene	50	57.2	114	56.4	113	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	56.9	114	56.2	112	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	61.9	124	62.1	124	0	70-130/25
127-18-4	Tetrachloroethene	50	54.8	110	53.5	107	2	70-130/25
108-88-3	Toluene	50	54.7	109	53.9	108	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	59.4	119	64.4	129	8	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	57.5	115	59.0	118	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	53.6	107	52.3	105	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.3	107	53.3	107	0	70-130/25
79-01-6	Trichloroethene	50	51.2	102	50.3	101	2	70-130/25
75-69-4	Trichlorofluoromethane	50	57.5	115	55.3	111	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	56.2	112	56.3	113	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	57.6	115	56.6	113	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	57.4	115	56.3	113	2	70-130/25
108-05-4	Vinyl Acetate	50	54.9	110	55.2	110	1	70-130/25
75-01-4	Vinyl chloride	50	53.5	107	51.9	104	3	70-130/25
	m,p-Xylene	100	115	115	112	112	3	70-130/25
95-47-6	o-Xylene	50	54.8	110	53.6	107	2	70-130/25
1330-20-7	Xylene (total)	150	170	113	165	110	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	106%	70-130%
2037-26-5	Toluene-D8	104%	104%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-BS	H60430.D	1	04/17/13	GK	n/a	n/a	MSH1998
MSH1998-BSD	H60431.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: Method: SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	69.1	138* [a]	64.6	129	7	70-130/25
107-02-8	Acrolein	250	130	52* [a]	131	52* [a]	1	70-130/25
107-13-1	Acrylonitrile	50	37.7	75	37.5	75	1	70-130/25
71-43-2	Benzene	50	52.2	104	50.3	101	4	70-130/25
108-86-1	Bromobenzene	50	54.7	109	53.4	107	2	70-130/25
74-97-5	Bromochloromethane	50	49.6	99	47.3	95	5	70-130/25
75-27-4	Bromodichloromethane	50	55.1	110	53.6	107	3	70-130/25
75-25-2	Bromoform	50	52.5	105	52.2	104	1	70-130/25
74-83-9	Bromomethane	50	50.6	101	49.3	99	3	70-130/25
78-93-3	2-Butanone (MEK)	50	53.8	108	50.3	101	7	70-130/25
104-51-8	n-Butylbenzene	50	59.7	119	58.1	116	3	70-130/25
135-98-8	sec-Butylbenzene	50	55.4	111	53.4	107	4	70-130/25
98-06-6	tert-Butylbenzene	50	55.5	111	53.1	106	4	70-130/25
75-15-0	Carbon disulfide	50	49.2	98	47.0	94	5	70-130/25
56-23-5	Carbon tetrachloride	50	61.3	123	57.8	116	6	70-130/25
108-90-7	Chlorobenzene	50	50.9	102	50.9	102	0	70-130/25
75-00-3	Chloroethane	50	51.2	102	50.2	100	2	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	41.5	83	41.0	82	1	70-130/25
67-66-3	Chloroform	50	50.9	102	48.3	97	5	70-130/25
74-87-3	Chloromethane	50	53.8	108	52.7	105	2	70-130/25
95-49-8	o-Chlorotoluene	50	50.8	102	49.7	99	2	70-130/25
106-43-4	p-Chlorotoluene	50	54.2	108	52.6	105	3	70-130/25
124-48-1	Dibromochloromethane	50	52.4	105	52.0	104	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.3	105	51.5	103	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	53.4	107	52.1	104	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	53.5	107	52.8	106	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	49.5	99	46.4	93	6	70-130/25
75-34-3	1,1-Dichloroethane	50	48.8	98	45.8	92	6	70-130/25
107-06-2	1,2-Dichloroethane	50	51.3	103	49.6	99	3	70-130/25
75-35-4	1,1-Dichloroethene	50	52.5	105	48.9	98	7	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	47.8	96	45.6	91	5	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	48.9	98	45.5	91	7	70-130/25
78-87-5	1,2-Dichloropropane	50	48.5	97	48.4	97	0	70-130/25
142-28-9	1,3-Dichloropropane	50	53.5	107	52.6	105	2	70-130/25
594-20-7	2,2-Dichloropropane	50	58.4	117	55.3	111	5	70-130/25
563-58-6	1,1-Dichloropropene	50	54.2	108	51.1	102	6	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-BS	H60430.D	1	04/17/13	GK	n/a	n/a	MSH1998
MSH1998-BSD	H60431.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: Method: SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	46.1	92	45.3	91	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	48.0	96	47.0	94	2	70-130/25
123-91-1	1,4-Dioxane	250	238	95	232	93	3	70-130/25
97-63-2	Ethyl methacrylate	50	46.1	92	44.5	89	4	77-137/25
100-41-4	Ethylbenzene	50	58.2	116	56.0	112	4	70-130/25
87-68-3	Hexachlorobutadiene	50	59.3	119	57.7	115	3	70-130/25
591-78-6	2-Hexanone	50	58.7	117	58.4	117	1	70-130/25
98-82-8	Isopropylbenzene	50	55.1	110	53.4	107	3	70-130/25
99-87-6	p-Isopropyltoluene	50	60.0	120	58.6	117	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	47.4	95	45.3	91	5	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	45.8	92	44.4	89	3	70-130/25
74-95-3	Methylene bromide	50	52.1	104	50.7	101	3	70-130/25
75-09-2	Methylene chloride	50	46.7	93	45.5	91	3	70-130/25
91-20-3	Naphthalene	50	54.3	109	52.8	106	3	70-130/25
103-65-1	n-Propylbenzene	50	54.1	108	51.7	103	5	70-130/25
100-42-5	Styrene	50	57.5	115	57.9	116	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	59.5	119	59.1	118	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	56.3	113	56.1	112	0	70-130/25
127-18-4	Tetrachloroethene	50	58.7	117	56.5	113	4	70-130/25
108-88-3	Toluene	50	51.2	102	49.8	100	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	57.8	116	57.4	115	1	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	58.0	116	56.1	112	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	54.3	109	51.5	103	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	49.3	99	48.5	97	2	70-130/25
79-01-6	Trichloroethene	50	50.2	100	48.3	97	4	70-130/25
75-69-4	Trichlorofluoromethane	50	52.7	105	49.8	100	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	49.6	99	49.2	98	1	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	56.3	113	54.9	110	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	56.6	113	54.7	109	3	70-130/25
108-05-4	Vinyl Acetate	50	54.1	108	51.4	103	5	70-130/25
75-01-4	Vinyl chloride	50	46.1	92	43.5	87	6	70-130/25
	m,p-Xylene	100	115	115	114	114	1	70-130/25
95-47-6	o-Xylene	50	56.4	113	54.8	110	3	70-130/25
1330-20-7	Xylene (total)	150	171	114	169	113	1	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-BS	H60430.D	1	04/17/13	GK	n/a	n/a	MSH1998
MSH1998-BSD	H60431.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	70-130%
2037-26-5	Toluene-D8	102%	101%	70-130%
460-00-4	4-Bromofluorobenzene	109%	109%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	MC19614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	58.5	117	50	57.3	115	2	70-130/30
107-02-8	Acrolein	ND		250	225	90	250	224	90	0	70-130/30
107-13-1	Acrylonitrile	ND		50	62.1	124	50	59.1	118	5	70-130/30
71-43-2	Benzene	ND		50	54.0	108	50	52.0	104	4	70-130/30
108-86-1	Bromobenzene	ND		50	54.3	109	50	53.4	107	2	70-130/30
74-97-5	Bromochloromethane	ND		50	56.0	112	50	54.6	109	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	52.9	106	50	51.9	104	2	70-130/30
75-25-2	Bromoform	ND		50	40.2	80	50	41.3	83	3	70-130/30
74-83-9	Bromomethane	ND		50	66.9	134* [a]	50	64.6	129	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	54.2	108	50	52.2	104	4	70-130/30
104-51-8	n-Butylbenzene	ND		50	58.8	118	50	57.3	115	3	70-130/30
135-98-8	sec-Butylbenzene	0.77	J	50	54.2	107	50	53.0	104	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50	52.5	105	50	51.5	103	2	70-130/30
75-15-0	Carbon disulfide	ND		50	55.3	111	50	53.0	106	4	70-130/30
56-23-5	Carbon tetrachloride	ND		50	51.5	103	50	50.1	100	3	70-130/30
108-90-7	Chlorobenzene	ND		50	51.8	104	50	50.8	102	2	70-130/30
75-00-3	Chloroethane	ND		50	61.3	123	50	59.8	120	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	55.0	110	50	53.1	106	4	70-130/30
74-87-3	Chloromethane	ND		50	68.0	136* [a]	50	64.5	129	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	52.7	105	50	51.6	103	2	70-130/30
106-43-4	p-Chlorotoluene	ND		50	54.9	110	50	53.8	108	2	70-130/30
124-48-1	Dibromochloromethane	ND		50	45.5	91	50	45.3	91	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	53.3	107	50	52.9	106	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	52.2	104	50	51.6	103	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	54.6	109	50	54.0	108	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	53.1	106	50	50.8	102	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	57.3	115	50	55.0	110	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	55.7	111	50	54.1	108	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	57.1	114	50	54.9	110	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	54.4	109	50	52.2	104	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	55.5	111	50	52.9	106	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	54.2	108	50	52.7	105	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	53.3	107	50	52.0	104	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	55.5	111	50	53.1	106	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	54.9	110	50	52.4	105	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Compound	MC19614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	51.6	103	50	50.1	100	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.9	96	50	47.5	95	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	274	110	250	261	104	5	70-130/30
97-63-2	Ethyl methacrylate	ND		50	53.4	107	50	52.8	106	1	72-139/30
100-41-4	Ethylbenzene	ND		50	55.4	111	50	54.3	109	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	50.6	101	50	50.7	101	0	70-130/30
591-78-6	2-Hexanone	ND		50	54.1	108	50	53.6	107	1	70-130/30
98-82-8	Isopropylbenzene	1.1	J	50	54.4	107	50	53.4	105	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	58.7	117	50	57.5	115	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	60.5		50	110	99	50	107	93	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	53.1	106	50	52.2	104	2	70-130/30
74-95-3	Methylene bromide	ND		50	55.4	111	50	53.9	108	3	70-130/30
75-09-2	Methylene chloride	ND		50	56.7	113	50	54.4	109	4	70-130/30
91-20-3	Naphthalene	ND		50	52.1	104	50	66.5	133* [a]	24	70-130/30
103-65-1	n-Propylbenzene	ND		50	54.1	108	50	52.8	106	2	70-130/30
100-42-5	Styrene	ND		50	54.8	110	50	53.9	108	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	54.4	109	50	53.7	107	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	63.2	126	50	63.2	126	0	70-130/30
127-18-4	Tetrachloroethene	ND		50	50.7	101	50	49.9	100	2	70-130/30
108-88-3	Toluene	ND		50	54.0	108	50	52.1	104	4	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.9	98	50	58.4	117	18	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.6	105	50	55.4	111	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	52.5	105	50	50.8	102	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.6	107	50	51.9	104	3	70-130/30
79-01-6	Trichloroethene	ND		50	49.6	99	50	48.0	96	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	59.2	118	50	56.3	113	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	56.4	113	50	56.2	112	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	55.4	111	50	54.0	108	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	54.7	109	50	53.6	107	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	58.7	117	50	56.6	113	4	70-130/30
75-01-4	Vinyl chloride	ND		50	53.4	107	50	51.7	103	3	70-130/30
	m,p-Xylene	1.4		100	110	109	100	107	106	3	70-130/30
95-47-6	o-Xylene	0.79	J	50	52.8	104	50	52.3	103	1	70-130/30
1330-20-7	Xylene (total)	2.1		150	163	107	150	159	105	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-1, MC19612-2, MC19612-4

CAS No.	Surrogate Recoveries	MS	MSD	MC19614-2	Limits
1868-53-7	Dibromofluoromethane	108%	107%	104%	70-130%
2037-26-5	Toluene-D8	105%	105%	104%	70-130%
460-00-4	4-Bromofluorobenzene	94%	94%	97%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19661-24MS	H60438.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24MSD	H60439.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24 [a]	H60434.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	MC19661-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	196	78	250	189	76	4	70-130/30
107-02-8	Acrolein	ND		1250	593	47* [b]	1250	599	48* [b]	1	70-130/30
107-13-1	Acrylonitrile	ND		250	180	72	250	177	71	2	70-130/30
71-43-2	Benzene	55.1		250	292	95	250	292	95	0	70-130/30
108-86-1	Bromobenzene	ND		250	261	104	250	260	104	0	70-130/30
74-97-5	Bromochloromethane	ND		250	237	95	250	235	94	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	261	104	250	262	105	0	70-130/30
75-25-2	Bromoform	ND		250	255	102	250	255	102	0	70-130/30
74-83-9	Bromomethane	ND		250	254	102	250	257	103	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	201	80	250	185	74	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	272	109	250	270	108	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	256	102	250	257	103	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	259	104	250	255	102	2	70-130/30
75-15-0	Carbon disulfide	ND		250	227	91	250	223	89	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	279	112	250	276	110	1	70-130/30
108-90-7	Chlorobenzene	ND		250	250	100	250	249	100	0	70-130/30
75-00-3	Chloroethane	ND		250	253	101	250	250	100	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	184	74	250	194	78	5	70-130/30
67-66-3	Chloroform	ND		250	240	96	250	238	95	1	70-130/30
74-87-3	Chloromethane	ND		250	265	106	250	265	106	0	70-130/30
95-49-8	o-Chlorotoluene	ND		250	239	96	250	240	96	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	252	101	250	253	101	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	255	102	250	253	101	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	246	98	250	248	99	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	253	101	250	252	101	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	257	103	250	254	102	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	210	84	250	208	83	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	225	90	250	222	89	1	70-130/30
107-06-2	1,2-Dichloroethane	43.1		250	281	95	250	281	95	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	239	96	250	242	97	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	230	92	250	224	90	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	224	90	250	227	91	1	70-130/30
78-87-5	1,2-Dichloropropane	1.4		250	235	93	250	235	93	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	258	103	250	255	102	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	275	110	250	269	108	2	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	249	100	250	251	100	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19661-24MS	H60438.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24MSD	H60439.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24 [a]	H60434.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: Method: SW846 8260B

MC19612-2, MC19612-3

CAS No.	Compound	MC19661-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	221	88	250	221	88	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	232	93	250	231	92	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1120	90	1250	1140	91	2	70-130/30
97-63-2	Ethyl methacrylate	ND		250	214	86	250	220	88	3	72-139/30
100-41-4	Ethylbenzene	ND		250	281	112	250	281	112	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	272	109	250	274	110	1	70-130/30
591-78-6	2-Hexanone	ND		250	229	92	250	235	94	3	70-130/30
98-82-8	Isopropylbenzene	5.1		250	262	103	250	260	102	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	281	112	250	277	111	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	3.1		250	228	90	250	226	89	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	211	84	250	212	85	0	70-130/30
74-95-3	Methylene bromide	ND		250	243	97	250	249	100	2	70-130/30
75-09-2	Methylene chloride	ND		250	224	90	250	223	89	0	70-130/30
91-20-3	Naphthalene	ND		250	251	100	250	253	101	1	70-130/30
103-65-1	n-Propylbenzene	0.93		250	253	101	250	251	100	1	70-130/30
100-42-5	Styrene	ND		250	270	108	250	285	114	5	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	287	115	250	287	115	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	272	109	250	269	108	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	277	111	250	278	111	0	70-130/30
108-88-3	Toluene	ND		250	245	98	250	244	98	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	258	103	250	268	107	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	263	105	250	270	108	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	255	102	250	249	100	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	233	93	250	237	95	2	70-130/30
79-01-6	Trichloroethene	ND		250	239	96	250	235	94	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	244	98	250	240	96	2	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	240	96	250	242	97	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	0.58		250	268	107	250	264	105	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	265	106	250	264	106	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	263	105	250	270	108	3	70-130/30
75-01-4	Vinyl chloride	ND		250	218	87	250	210	84	4	70-130/30
	m,p-Xylene	ND		500	561	112	500	557	111	1	70-130/30
95-47-6	o-Xylene	ND		250	270	108	250	273	109	1	70-130/30
1330-20-7	Xylene (total)	ND		750	831	111	750	830	111	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19661-24MS	H60438.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24MSD	H60439.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24 [a]	H60434.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19612-2, MC19612-3

CAS No.	Surrogate Recoveries	MS	MSD	MC19661-24	Limits
1868-53-7	Dibromofluoromethane	98%	96%	92%	70-130%
2037-26-5	Toluene-D8	102%	102%	102%	70-130%
460-00-4	4-Bromofluorobenzene	110%	108%	116%	70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH1998-CC1993	**Injection Date:**	04/17/13
Lab File ID:	H60429.D	**Injection Time:**	08:13
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	168742	8.70	243455	9.57	110719	12.83	141232	15.39	33112	6.27
Upper Limit [a]	337484	9.20	486910	10.07	221438	13.33	282464	15.89	66224	6.77
Lower Limit [b]	84371	8.20	121728	9.07	55360	12.33	70616	14.89	16556	5.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH1998-BS	178972	8.70	258516	9.57	116906	12.83	146613	15.39	37350	6.28
MSH1998-BSD	187579	8.70	269162	9.57	119562	12.83	150883	15.39	39631	6.27
MSH1998-MB	172057	8.70	237410	9.57	103902	12.83	124770	15.40	36685	6.28
MC19661-24	171481	8.70	245234	9.57	103157	12.83	121946	15.40	30651	6.28
MC19612-3	170617	8.70	236248	9.57	100470	12.83	119905	15.40	32490	6.28
ZZZZZZ	163514	8.70	225668	9.57	98549	12.83	115944	15.40	35393	6.27
ZZZZZZ	165507	8.70	226533	9.57	97141	12.83	133557	15.39	38209	6.28
MC19661-24MS	179027	8.70	258808	9.57	114363	12.83	147074	15.40	36147	6.27
MC19661-24MSD	184681	8.70	264350	9.57	117356	12.82	150717	15.39	38578	6.27
ZZZZZZ	187392	8.70	258336	9.57	108844	12.83	134542	15.40	40722	6.27
ZZZZZZ	179078	8.70	246743	9.57	105818	12.82	128021	15.40	38295	6.27
MC19612-2	175554	8.70	245382	9.57	107831	12.83	134305	15.40	37501	6.27
ZZZZZZ	180096	8.70	250522	9.57	107074	12.83	142416	15.39	40136	6.28
ZZZZZZ	184337	8.70	274281	9.57	109980	12.83	132866	15.40	36884	6.28
ZZZZZZ	175858	8.70	259395	9.57	103618	12.83	128041	15.40	38524	6.28
ZZZZZZ	175054	8.70	242295	9.57	105941	12.83	124758	15.40	38358	6.28
ZZZZZZ	169804	8.70	232489	9.57	102401	12.83	142416	15.39	41711	6.27
ZZZZZZ	191994	8.70	260722	9.57	110859	12.83	135974	15.40	41014	6.27
ZZZZZZ	182412	8.70	254576	9.57	107529	12.83	130004	15.39	38943	6.27
ZZZZZZ	178960	8.70	245972	9.57	105816	12.83	128548	15.40	39513	6.28
ZZZZZZ	173006	8.70	239000	9.57	105699	12.83	148646	15.40	41556	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV696-CC692	**Injection Date:**	04/16/13
Lab File ID:	V17543.D	**Injection Time:**	10:27
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	554754	6.53	838734	7.72	343855	11.06	403347	13.28	79936	3.48
Upper Limit [a]	1109508	7.03	1677468	8.22	687710	11.56	806694	13.78	159872	3.98
Lower Limit [b]	277377	6.03	419367	7.22	171928	10.56	201674	12.78	39968	2.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV696-BS	538081	6.54	814975	7.72	337503	11.07	397539	13.28	85881	3.49
MSV696-BSD	541869	6.53	818945	7.72	342139	11.07	400859	13.28	87905	3.48
MSV696-MB	530337	6.54	805278	7.73	330949	11.07	370563	13.28	86419	3.49
MC19612-4	541502	6.54	820138	7.73	336838	11.07	377520	13.28	86011	3.49
ZZZZZZ	520364	6.54	796954	7.72	326684	11.07	363054	13.28	78829	3.48
ZZZZZZ	515991	6.55	789892	7.73	327228	11.07	363592	13.28	83121	3.50
ZZZZZZ	522291	6.54	795685	7.73	328032	11.07	362545	13.28	81743	3.49
MC19614-2	507086	6.54	773848	7.73	322548	11.07	358995	13.28	82889	3.49
MC19614-2MS	509248	6.55	773003	7.73	330008	11.07	382821	13.29	92117	3.50
MC19614-2MSD	527394	6.55	799814	7.73	336272	11.07	391796	13.28	94973	3.50
MC19614-6MS	532481	6.54	810949	7.73	338776	11.07	393013	13.29	91973	3.49
MC19614-6MSD	536285	6.55	814603	7.73	340667	11.07	395032	13.29	90541	3.50
ZZZZZZ	531530	6.55	807640	7.73	334972	11.07	375783	13.29	84915	3.50
MC19614-6	504621	6.55	774124	7.73	321767	11.07	355223	13.29	80377	3.49
MC19612-2	532384	6.56	818484	7.74	359632	11.08	413875	13.29	160710[c]	3.52
MC19612-1	559045	6.55	836770	7.74	351477	11.07	413779	13.29	130639	3.51
ZZZZZZ	535255	6.55	823392	7.74	355639	11.08	414403	13.29	179718[c]	3.52
ZZZZZZ	539242	6.70	873942	7.80	385529	11.08	441346	13.29	103276	3.52
ZZZZZZ	585158	6.69	895809	7.79	392074	11.08	456792	13.29	109547	3.52
ZZZZZZ	596386	6.55	883051	7.73	374177	11.07	453138	13.29	114956	3.50
ZZZZZZ	624753	6.55	910052	7.74	385570	11.08	467398	13.29	108542	3.50

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19612-1	V17562.D	97	104	94
MC19612-2	V17561.D	102	108	96
MC19612-2	H60442.D	91	104	112
MC19612-3	H60435.D	91	103	114
MC19612-4	V17549.D	102	102	96
MC19614-2MS	V17555.D	108	105	94
MC19614-2MSD	V17556.D	107	105	94
MC19661-24MS	H60438.D	98	102	110
MC19661-24MSD	H60439.D	96	102	108
MSH1998-BS	H60430.D	99	102	109
MSH1998-BSD	H60431.D	98	101	109
MSH1998-MB	H60433.D	92	106	112
MSV696-BS	V17544.D	106	104	93
MSV696-BSD	V17545.D	106	104	93
MSV696-MB	V17548.D	102	102	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-MB	F62975A.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.65	2.0	0.49	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-MB	F62975A.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: Method: SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
91-20-3	Naphthalene	ND	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	40%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	71%	30-130%
321-60-8	2-Fluorobiphenyl	62%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32597-MB	I82530A.D	1	04/11/13	NS	04/10/13	OP32597	MSI3069

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	66%	15-110%
4165-60-0	Nitrobenzene-d5	61%	30-130%
321-60-8	2-Fluorobiphenyl	57%	30-130%
1718-51-0	Terphenyl-d14	79%	30-130%

Blank Spike Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32597-BS	I82531A.D	1	04/11/13	NS	04/10/13	OP32597	MSI3069

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	35.2	70	40-140
208-96-8	Acenaphthylene	50	19.1	38* [a]	40-140
120-12-7	Anthracene	50	39.6	79	40-140
56-55-3	Benzo(a)anthracene	50	40.5	81	40-140
50-32-8	Benzo(a)pyrene	50	35.2	70	40-140
205-99-2	Benzo(b)fluoranthene	50	37.5	75	40-140
191-24-2	Benzo(g,h,i)perylene	50	42.7	85	40-140
207-08-9	Benzo(k)fluoranthene	50	39.9	80	40-140
218-01-9	Chrysene	50	37.9	76	40-140
53-70-3	Dibenzo(a,h)anthracene	50	37.7	75	40-140
206-44-0	Fluoranthene	50	41.5	83	40-140
86-73-7	Fluorene	50	34.9	70	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.3	75	40-140
90-12-0	1-Methylnaphthalene	50	30.7	61	40-140
91-57-6	2-Methylnaphthalene	50	29.1	58	40-140
85-01-8	Phenanthrene	50	40.0	80	40-140
129-00-0	Pyrene	50	40.2	80	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	33%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	59%	30-130%
321-60-8	2-Fluorobiphenyl	60%	30-130%
1718-51-0	Terphenyl-d14	79%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-BS	F62976.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
OP32596-BSD	F62977.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: Method: SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	100	45.0	45	46.5	47	3	30-130/20
95-57-8	2-Chlorophenol	100	56.7	57	63.7	64	12	30-130/20
59-50-7	4-Chloro-3-methyl phenol	100	77.5	78	81.3	81	5	30-130/20
120-83-2	2,4-Dichlorophenol	100	70.1	70	76.9	77	9	30-130/20
105-67-9	2,4-Dimethylphenol	100	62.4	62	64.5	65	3	30-130/20
51-28-5	2,4-Dinitrophenol	100	99.4	99	103	103	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	100	100	100	101	101	1	30-130/20
95-48-7	2-Methylphenol	100	51.5	52	56.3	56	9	30-130/20
	3&4-Methylphenol	200	101	51	114	57	12	30-130/20
88-75-5	2-Nitrophenol	100	71.0	71	78.3	78	10	30-130/20
100-02-7	4-Nitrophenol	100	46.5	47	45.6	46	2	30-130/20
87-86-5	Pentachlorophenol	100	114	114	114	114	0	30-130/20
108-95-2	Phenol	100	25.3	25* [a]	28.4	28* [a]	12	30-130/20
95-95-4	2,4,5-Trichlorophenol	100	87.2	87	91.4	91	5	30-130/20
88-06-2	2,4,6-Trichlorophenol	100	86.3	86	90.6	91	5	30-130/20
62-53-3	Aniline	50	18.0	36* [a]	16.8	34* [a]	7	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	43.7	87	38.5	77	13	40-140/20
85-68-7	Butyl benzyl phthalate	50	41.7	83	42.8	86	3	40-140/20
100-51-6	Benzyl Alcohol	50	39.1	78	38.2	76	2	40-140/20
91-58-7	2-Chloronaphthalene	100	70.7	71	67.4	67	5	40-140/20
106-47-8	4-Chloroaniline	50	32.4	65	28.8	58	12	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	35.4	71	32.4	65	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	30.7	61	29.2	58	5	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	36.5	73	34.9	70	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	43.2	86	38.7	77	11	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	44.4	89	38.0	76	16	40-140/20
121-14-2	2,4-Dinitrotoluene	100	87.9	88	77.2	77	13	40-140/20
606-20-2	2,6-Dinitrotoluene	100	94.5	95	80.7	81	16	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	57.1	114	48.2	96	17	40-140/20
132-64-9	Dibenzofuran	50	40.0	80	36.0	72	11	40-140/20
84-74-2	Di-n-butyl phthalate	50	45.4	91	41.8	84	8	40-140/20
117-84-0	Di-n-octyl phthalate	50	50.0	100	47.2	94	6	40-140/20
84-66-2	Diethyl phthalate	50	40.1	80	40.6	81	1	40-140/20
131-11-3	Dimethyl phthalate	50	25.0	50	34.3	69	31* [b]	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.1	96	44.8	90	7	40-140/20
118-74-1	Hexachlorobenzene	100	87.8	88	78.7	79	11	40-140/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-BS	F62976.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
OP32596-BSD	F62977.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	100	34.2	34* [a]	41.5	42	19	40-140/20
67-72-1	Hexachloroethane	100	42.0	42	49.0	49	15	40-140/20
78-59-1	Isophorone	100	79.8	80	72.5	73	10	40-140/20
88-74-4	2-Nitroaniline	50	44.5	89	40.3	81	10	40-140/20
99-09-2	3-Nitroaniline	50	44.5	89	37.8	76	16	40-140/20
100-01-6	4-Nitroaniline	50	47.7	95	40.9	82	15	40-140/20
91-20-3	Naphthalene	50	31.4	63	30.1	60	4	40-140/20
98-95-3	Nitrobenzene	100	62.1	62	58.4	58	6	40-140/20
62-75-9	n-Nitrosodimethylamine	50	19.2	38* [a]	19.5	39* [a]	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	36.8	74	35.6	71	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	44.4	89	38.7	77	14	40-140/20
110-86-1	Pyridine	50	13.5	27* [a]	13.0	26* [a]	4	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	35%	38%	15-110%
4165-62-2	Phenol-d5	26%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	95%	90%	15-110%
4165-60-0	Nitrobenzene-d5	68%	63%	30-130%
321-60-8	2-Fluorobiphenyl	70%	66%	30-130%
1718-51-0	Terphenyl-d14	90%	81%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Individual spike recoveries within acceptance limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-MS	F62978.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
OP32596-MSD	F62979.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
MC19700-3	F62980.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	MC19700-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	44.7	45	100	53.1	53	17	30-130/20
95-57-8	2-Chlorophenol	ND		100	58.7	59	100	76.8	77	27* [a]	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	78.2	78	100	92.7	93	17	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	72.5	73	100	91.1	91	23* [a]	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	62.7	63	100	79.7	80	24* [a]	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	101	101	100	112	112	10	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	101	101	100	113	113	11	30-130/20
95-48-7	2-Methylphenol	ND		100	50.8	51	100	67.4	67	28* [a]	30-130/20
	3&4-Methylphenol	ND		200	104	52	200	133	67	24* [a]	30-130/20
88-75-5	2-Nitrophenol	ND		100	73.4	73	100	94.1	94	25* [a]	30-130/20
100-02-7	4-Nitrophenol	ND		100	44.8	45	100	51.7	52	14	30-130/20
87-86-5	Pentachlorophenol	ND		100	114	114	100	128	128	12	30-130/20
108-95-2	Phenol	ND		100	28.0	28* [b]	100	36.6	37	27* [a]	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	91.5	92	100	105	105	14	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	86.8	87	100	103	103	17	30-130/20
62-53-3	Aniline	ND		50	17.3	35* [b]	50	21.1	42	20	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	41.4	83	50	46.1	92	11	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	38.5	77	50	42.3	85	9	40-140/20
100-51-6	Benzyl Alcohol	ND		50	35.8	72	50	49.8	100	33* [a]	40-140/20
91-58-7	2-Chloronaphthalene	ND		100	68.5	69	100	79.6	80	15	40-140/20
106-47-8	4-Chloroaniline	ND		50	30.7	61	50	36.5	73	17	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	33.0	66	50	42.1	84	24* [a]	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	29.3	59	50	38.7	77	28* [a]	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	35.2	70	50	45.3	91	25* [a]	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	39.8	80	50	44.7	89	12	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	41.5	83	50	45.6	91	9	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		100	83.2	83	100	96.0	96	14	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		100	87.1	87	100	100	100	14	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	51.4	103	50	54.1	108	5	40-140/20
132-64-9	Dibenzofuran	ND		50	37.9	76	50	42.3	85	11	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	41.6	83	50	46.2	92	10	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	47.3	95	50	52.4	105	10	40-140/20
84-66-2	Diethyl phthalate	ND		50	37.1	74	50	41.7	83	12	40-140/20
131-11-3	Dimethyl phthalate	ND		50	23.4	47	50	25.5	51	9	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	45.1	90	50	49.5	99	9	40-140/20
118-74-1	Hexachlorobenzene	ND		100	84.7	85	100	96.5	97	13	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32596-MS	F62978.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
OP32596-MSD	F62979.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945
MC19700-3	F62980.D	1	04/12/13	KR	04/10/13	OP32596	MSF2945

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	MC19700-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		100	34.4	34* [b]	100	41.0	41	18	40-140/20
67-72-1	Hexachloroethane	ND		100	41.3	41	100	48.7	49	16	40-140/20
78-59-1	Isophorone	ND		100	77.3	77	100	95.1	95	21* [a]	40-140/20
88-74-4	2-Nitroaniline	ND		50	41.8	84	50	48.7	97	15	40-140/20
99-09-2	3-Nitroaniline	ND		50	40.1	80	50	44.3	89	10	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.6	85	50	48.0	96	12	40-140/20
91-20-3	Naphthalene	ND		50	30.1	60	50	37.5	75	22* [a]	40-140/20
98-95-3	Nitrobenzene	ND		100	62.0	62	100	79.1	79	24* [a]	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	19.5	39* [b]	50	24.3	49	22* [a]	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	35.8	72	50	43.5	87	19	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	41.5	83	50	45.6	91	9	40-140/20
110-86-1	Pyridine	ND		50	13.5	27* [b]	50	17.7	35* [b]	27* [a]	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19700-3	Limits
367-12-4	2-Fluorophenol	35%	46%	39%	15-110%
4165-62-2	Phenol-d5	25%	32%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	87%	97%	85%	15-110%
4165-60-0	Nitrobenzene-d5	63%	82%	66%	30-130%
321-60-8	2-Fluorobiphenyl	67%	80%	63%	30-130%
1718-51-0	Terphenyl-d14	84%	94%	90%	30-130%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32597-MS	I82533A.D	1	04/11/13	NS	04/10/13	OP32597	MSI3069
OP32597-MSD	I82534A.D	1	04/11/13	NS	04/10/13	OP32597	MSI3069
MC19700-4	I82535A.D	1	04/11/13	NS	04/10/13	OP32597	MSI3069

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19612-1, MC19612-2, MC19612-3

CAS No.	Compound	MC19700-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	33.2	66	50	36.9	74	11	40-140/20
208-96-8	Acenaphthylene	ND		50	17.2	34* [a]	50	20.8	42	19	40-140/20
120-12-7	Anthracene	ND		50	37.6	75	50	41.2	82	9	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	38.2	76	50	42.1	84	10	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	33.5	67	50	36.5	73	9	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	36.1	72	50	39.1	78	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	40.7	81	50	45.0	90	10	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	37.7	75	50	42.4	85	12	40-140/20
218-01-9	Chrysene	ND		50	36.3	73	50	39.6	79	9	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	36.1	72	50	39.6	79	9	40-140/20
206-44-0	Fluoranthene	ND		50	39.0	78	50	43.1	86	10	40-140/20
86-73-7	Fluorene	ND		50	32.7	65	50	36.4	73	11	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	35.6	71	50	39.0	78	9	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	29.6	59	50	34.3	69	15	40-140/20
91-57-6	2-Methylnaphthalene	0.061	J	50	27.8	55	50	32.9	66	17	40-140/20
85-01-8	Phenanthrene	ND		50	37.8	76	50	41.4	83	9	40-140/20
129-00-0	Pyrene	ND		50	38.3	77	50	42.5	85	10	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19700-4	Limits
367-12-4	2-Fluorophenol	32%	42%	35%	15-110%
4165-62-2	Phenol-d5	23%	29%	26%	15-110%
118-79-6	2,4,6-Tribromophenol	70%	79%	65%	15-110%
4165-60-0	Nitrobenzene-d5	56%	71%	59%	30-130%
321-60-8	2-Fluorobiphenyl	57%	65%	57%	30-130%
1718-51-0	Terphenyl-d14	75%	83%	81%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2945-CC2937	**Injection Date:**	04/12/13
Lab File ID:	F62974.D	**Injection Time:**	07:51
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	28112	4.10	105189	5.09	66873	6.53	127278	7.89	140927	10.66	132955	12.14
Upper Limit [a]	56224	4.60	210378	5.59	133746	7.03	254556	8.39	281854	11.16	265910	12.64
Lower Limit [b]	14056	3.60	52595	4.59	33437	6.03	63639	7.39	70464	10.16	66478	11.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32596-MB	24979	4.10	93643	5.09	59894	6.53	110628	7.88	123155	10.66	113492	12.14
OP32598-MB	24979	4.10	93643	5.09	59894	6.53	110628	7.88	123155	10.66	113492	12.14
OP32596-BS	22986	4.10	85512	5.09	54034	6.53	102304	7.89	117073	10.66	110763	12.14
OP32598-BS	22986	4.10	85512	5.09	54034	6.53	102304	7.89	117073	10.66	110763	12.14
OP32596-BSD	25466	4.10	97500	5.09	62057	6.53	119058	7.89	134354	10.66	124000	12.14
OP32598-MS	26785	4.10	99995	5.09	63301	6.53	117690	7.89	129599	10.66	116959	12.14
OP32596-MS	26785	4.10	99995	5.09	63301	6.53	117690	7.89	129599	10.66	116959	12.14
OP32598-MSD	28052	4.10	104153	5.09	66536	6.53	125683	7.89	141176	10.66	130185	12.14
OP32596-MSD	28052	4.10	104153	5.09	66536	6.53	125683	7.89	141176	10.66	130185	12.14
MC19700-3	25915	4.10	98327	5.09	60578	6.53	111543	7.88	124579	10.66	114677	12.14
MC19700-5	25915	4.10	98327	5.09	60578	6.53	111543	7.88	124579	10.66	114677	12.14
ZZZZZZ	26133	4.10	98160	5.09	61944	6.53	112412	7.88	125238	10.66	116691	12.13
ZZZZZZ	24435	4.09	91079	5.09	58106	6.53	108484	7.88	122427	10.66	117035	12.14
ZZZZZZ	24213	4.10	92176	5.09	58567	6.53	107929	7.88	122548	10.66	115973	12.13
ZZZZZZ	27137	4.10	100868	5.09	63619	6.52	115715	7.88	130372	10.66	120462	12.13
ZZZZZZ	28339	4.10	105676	5.09	66458	6.52	122454	7.88	134253	10.66	125503	12.13
ZZZZZZ	28007	4.10	104544	5.09	65321	6.53	119558	7.88	133488	10.66	126439	12.14
ZZZZZZ	26432	4.10	100493	5.08	63092	6.52	114831	7.88	126938	10.66	119396	12.13

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2946-CC2937	**Injection Date:**	04/12/13
Lab File ID:	F62990.D	**Injection Time:**	14:13
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	30630	4.10	116202	5.09	74592	6.53	141837	7.89	163580	10.66	152174	12.14
Upper Limit [a]	61260	4.60	232404	5.59	149184	7.03	283674	8.39	327160	11.16	304348	12.64
Lower Limit [b]	15315	3.60	58101	4.59	37296	6.03	70919	7.39	81790	10.16	76087	11.64

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19612-1	26550	4.10	98632	5.09	63434	6.53	114937	7.88	134003	10.66	126647	12.13
MC19612-2	27029	4.10	102696	5.09	64940	6.53	119291	7.88	137522	10.66	127330	12.13
MC19612-3	26391	4.10	97663	5.09	62034	6.52	113507	7.88	131997	10.66	123145	12.13
ZZZZZZ	26250	4.09	97769	5.09	61997	6.52	115673	7.88	130999	10.66	124641	12.13
ZZZZZZ	26303	4.09	99509	5.09	64055	6.53	117603	7.88	133783	10.66	127380	12.14
ZZZZZZ	25508	4.10	97118	5.08	61808	6.52	114351	7.88	132025	10.66	124130	12.13
ZZZZZZ	37226	4.09	138503	5.09	86116	6.53	154417	7.88	158154	10.66	140062	12.14
ZZZZZZ	34245	4.10	127458	5.09	78306	6.52	138938	7.88	146738	10.66	142308	12.14
ZZZZZZ	33705	4.09	129351	5.09	83184	6.53	153813	7.88	170239	10.66	156158	12.14
ZZZZZZ	26211	4.10	100905	5.08	64105	6.52	117679	7.88	135216	10.66	136054	12.14
ZZZZZZ	30301	4.10	118688	5.09	80484	6.53	148144	7.88	158246	10.66	151732	12.14
ZZZZZZ	21278	4.10	79615	5.09	50483	6.52	94324	7.88	109897	10.66	105783	12.14
ZZZZZZ	20276	4.10	76111	5.09	46462	6.52	87811	7.88	105762	10.66	101021	12.14
ZZZZZZ	24028	4.10	90797	5.08	57634	6.52	107693	7.88	126426	10.66	125577	12.14
ZZZZZZ	23854	4.10	88774	5.09	56488	6.53	103260	7.88	125460	10.66	121170	12.14
ZZZZZZ	26887	4.10	99529	5.09	63679	6.52	118324	7.88	138672	10.66	134986	12.14
ZZZZZZ	28095	4.10	107623	5.08	68675	6.52	127923	7.88	149357	10.66	144846	12.14
ZZZZZZ	24236	4.09	90779	5.09	58055	6.53	110321	7.88	123100	10.66	122529	12.14
ZZZZZZ	23867	4.10	90537	5.09	58622	6.53	111269	7.88	128580	10.66	133072	12.14
ZZZZZZ	21677	4.10	81539	5.09	52970	6.52	100700	7.88	115040	10.66	117890	12.14
ZZZZZZ	26243	4.10	99650	5.09	64592	6.53	119215	7.89	134478	10.66	139071	12.14
ZZZZZZ	23739	4.10	92488	5.09	59418	6.52	111313	7.88	128822	10.67	131482	12.14
ZZZZZZ	27060	4.10	99920	5.09	63127	6.53	112128	7.88	128488	10.66	127237	12.14
ZZZZZZ	25626	4.10	98299	5.09	63342	6.53	116305	7.89	139186	10.66	135222	12.14
ZZZZZZ	20894	4.10	79101	5.08	51836	6.53	97708	7.88	117246	10.67	118884	12.14
ZZZZZZ	25433	4.10	96436	5.09	64737	6.53	118062	7.88	145798	10.66	145285	12.14
ZZZZZZ	25534	4.10	96321	5.09	61969	6.53	115755	7.88	137998	10.66	137006	12.14
ZZZZZZ	25162	4.10	95555	5.09	61821	6.53	115576	7.89	138528	10.66	133609	12.14

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2946-CC2937	**Injection Date:**	04/12/13
Lab File ID:	F62990.D	**Injection Time:**	14:13
Instrument ID:	GCMSF	**Method:**	SW846 8270C

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3069-CC3044	**Injection Date:**	04/11/13
Lab File ID:	I82529.D	**Injection Time:**	09:06
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	205110	3.41	522036	4.37	269186	5.77	494734	7.01	384640	9.73	729482	11.13
Upper Limit [a]	410220	3.91	1044072	4.87	538372	6.27	989468	7.51	769280	10.23	1458964	11.63
Lower Limit [b]	102555	2.91	261018	3.87	134593	5.27	247367	6.51	192320	9.23	364741	10.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32599-MB	168303	3.40	437637	4.37	221350	5.77	387934	7.01	314926	9.73	604758	11.13
OP32597-MB	168303	3.40	437637	4.37	221350	5.77	387934	7.01	314926	9.73	604758	11.13
OP32597-BS	192181	3.41	488053	4.37	248685	5.77	447825	7.01	335604	9.74	651516	11.13
OP32599-BS	192181	3.41	488053	4.37	248685	5.77	447825	7.01	335604	9.74	651516	11.13
OP32597-MS	174446	3.41	447290	4.37	229206	5.77	412180	7.01	311225	9.74	598082	11.13
OP32599-MS	174446	3.41	447290	4.37	229206	5.77	412180	7.01	311225	9.74	598082	11.13
OP32597-MSD	187303	3.41	477717	4.37	246520	5.77	436883	7.01	330415	9.74	639777	11.13
OP32599-MSD	187303	3.41	477717	4.37	246520	5.77	436883	7.01	330415	9.74	639777	11.13
MC19700-7	171916	3.40	445796	4.37	225809	5.77	395619	7.01	316640	9.73	598967	11.12
MC19700-4	171916	3.40	445796	4.37	225809	5.77	395619	7.01	316640	9.73	598967	11.12
ZZZZZZ	201396	3.40	524336	4.37	260967	5.77	464023	7.01	375463	9.74	736123	11.13
ZZZZZZ	205569	3.40	527381	4.37	264560	5.76	465033	7.01	371250	9.73	712171	11.13
ZZZZZZ	186891	3.40	479523	4.37	244788	5.76	425344	7.01	329044	9.73	624473	11.13
OP32595-MB	189815	3.40	487477	4.37	249943	5.76	434715	7.01	341151	9.74	667820	11.13
OP32595-BS	202898	3.41	516046	4.37	261758	5.77	464552	7.01	344227	9.74	665366	11.13
ZZZZZZ	168446	3.41	432762	4.37	220218	5.76	387092	7.00	327492	9.73	645523	11.13
ZZZZZZ	187011	3.40	485625	4.37	230390	5.76	446009	7.01	348948	9.73	645275	11.13
ZZZZZZ	190424	3.40	484908	4.37	243034	5.76	428103	7.00	328491	9.73	631071	11.13
ZZZZZZ	185440	3.40	479789	4.37	244688	5.76	428069	7.01	332030	9.73	634222	11.13
ZZZZZZ	197684	3.40	508382	4.37	255027	5.76	446902	7.01	358155	9.73	698120	11.13
ZZZZZZ	181377	3.40	484779	4.37	245735	5.76	434309	7.00	343438	9.73	669449	11.13
ZZZZZZ	177575	3.40	494591	4.37	245669	5.76	427635	7.01	339820	9.73	668075	11.13
ZZZZZZ	184957	3.40	512837	4.37	257516	5.76	454610	7.01	354180	9.73	696371	11.13
ZZZZZZ	174074	3.40	466830	4.37	236901	5.76	453252	7.01	359307	9.73	713283	11.13
ZZZZZZ	181685	3.40	474925	4.37	255888	5.76	440963	7.01	354284	9.73	703643	11.13
ZZZZZZ	168615	3.40	451044	4.37	230229	5.76	449258	7.00	354688	9.73	689753	11.13

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3069-CC3044	**Injection Date:**	04/11/13
Lab File ID:	I82529.D	**Injection Time:**	09:06
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3070-CC3044	**Injection Date:**	04/12/13
Lab File ID:	I82564.D	**Injection Time:**	08:51
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	217065	3.41	550139	4.37	282765	5.76	522238	7.01	400353	9.74	761952	11.13
Upper Limit [a]	434130	3.91	1100278	4.87	565530	6.26	1044476	7.51	800706	10.24	1523904	11.63
Lower Limit [b]	108533	2.91	275070	3.87	141383	5.26	261119	6.51	200177	9.24	380976	10.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	197576	3.40	504469	4.37	252308	5.76	431565	7.00	332078	9.73	650765	11.13
MC19612-1	179786	3.40	451077	4.37	229882	5.76	403215	7.00	321898	9.73	640296	11.13
MC19612-2	180728	3.41	461493	4.37	240152	5.76	414996	7.01	333260	9.73	651414	11.13
MC19612-3	180140	3.40	464521	4.37	234218	5.76	403781	7.00	323907	9.73	632455	11.12
ZZZZZZ	197491	3.40	502506	4.37	252261	5.76	440015	7.01	341015	9.73	656231	11.13
ZZZZZZ	191199	3.40	502531	4.37	236958	5.76	464547	7.01	360013	9.73	690395	11.13
ZZZZZZ	207751	3.40	535283	4.37	247703	5.76	483971	7.00	375724	9.73	740758	11.13
ZZZZZZ	217145	3.40	546495	4.37	276383	5.76	486216	7.00	382263	9.73	740162	11.12
ZZZZZZ	213230	3.41	551135	4.37	278223	5.76	500665	7.01	400560	9.73	775189	11.13
ZZZZZZ	189170	3.41	500891	4.37	252549	5.76	458226	7.00	370429	9.73	713230	11.13
ZZZZZZ	185560	3.41	474564	4.37	246800	5.76	443703	7.01	359908	9.73	697306	11.13
ZZZZZZ	189788	3.41	476546	4.37	234882	5.77	411087	7.01	325529	9.73	651392	11.13
ZZZZZZ	177259	3.40	456636	4.37	236061	5.76	427393	7.01	348531	9.73	663999	11.13

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU693-CC623	**Injection Date:**	04/18/13
Lab File ID:	U13680.D	**Injection Time:**	10:47
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	106827	2.87	390161	3.84	242967	5.23	434187	6.43	471903	9.10	451244	10.62
Upper Limit [a]	213654	3.37	780322	4.34	485934	5.73	868374	6.93	943806	9.60	902488	11.12
Lower Limit [b]	53414	2.37	195081	3.34	121484	4.73	217094	5.93	235952	8.60	225622	10.12

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19626-10	114883	2.87	432670	3.84	271462	5.23	471399	6.42	549383	9.09	529403	10.62
MC19612-2	117691	2.87	438322	3.84	275084	5.23	481921	6.42	564150	9.09	525930	10.62
OP32689-MB	97074	2.87	355951	3.84	218818	5.23	381442	6.43	435158	9.10	402802	10.62
OP32689-BS	115197	2.88	391923	3.84	244742	5.24	427993	6.43	476070	9.10	458640	10.63
OP32689-MS	120961	2.87	426050	3.84	255308	5.23	442664	6.43	473525	9.10	465580	10.63
OP32689-MSD	110099	2.87	394493	3.84	233975	5.23	404797	6.43	434924	9.10	429437	10.63
ZZZZZZ	116090	2.87	413402	3.84	247415	5.23	425358	6.43	482413	9.10	459200	10.62
ZZZZZZ	116203	2.87	419831	3.84	261013	5.23	441479	6.42	506123	9.09	467599	10.62
ZZZZZZ	122838	2.87	442235	3.84	264096	5.23	449188	6.43	501783	9.09	481778	10.62
ZZZZZZ	131799	2.87	461010	3.84	268776	5.23	445320	6.43	457074	9.11	469457	10.65
ZZZZZZ	125739	2.87	452596	3.84	261248	5.23	447646	6.43	470306	9.10	465870	10.63
ZZZZZZ	116355	2.87	419082	3.84	260005	5.23	442975	6.42	483516	9.10	479548	10.62
ZZZZZZ	124977	2.87	445316	3.84	277824	5.23	460655	6.43	523841	9.09	492686	10.62
ZZZZZZ	135103	2.87	481211	3.84	302563	5.23	502419	6.43	548381	9.09	525627	10.62
ZZZZZZ	152013	2.87	534284	3.84	320050	5.23	528782	6.42	560575	9.09	537338	10.62
ZZZZZZ	133251	2.87	475293	3.84	286568	5.23	471790	6.42	516047	9.09	475508	10.62
ZZZZZZ	140659	2.87	501595	3.84	289224	5.23	472508	6.43	505574	9.11	498381	10.65
ZZZZZZ	135394	2.87	492070	3.84	293643	5.23	479365	6.43	506055	9.12	488697	10.66
ZZZZZZ	138920	2.87	496382	3.84	297506	5.23	494956	6.43	537940	9.10	502334	10.62
ZZZZZZ	121834	2.87	445064	3.84	267760	5.23	453973	6.43	516904	9.10	474263	10.63
ZZZZZZ	123661	2.87	454924	3.84	277906	5.23	449925	6.43	491686	9.11	468238	10.64
ZZZZZZ	127217	2.87	465600	3.84	270750	5.23	454207	6.43	477937	9.11	451221	10.65

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19612-1	F62991.D	25	18	68	71	60	68
MC19612-2	U13682.D	44	29	76	64	61	57
MC19612-2	F62992.D	30	31	86	68	60	62
MC19612-3	F62993.D	35	26	81	61	57	55
OP32596-BS	F62976.D	35	26	95	68	70	90
OP32596-BSD	F62977.D	38	28	90	63	66	81
OP32596-MB	F62975A.D	40	28	85	71	62	86
OP32596-MS	F62978.D	35	25	87	63	67	84
OP32596-MSD	F62979.D	46	32	97	82	80	94

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19612-1	I82566.D	61	55	61
MC19612-2	I82567.D	58	55	59
MC19612-3	I82568.D	55	53	52
OP32597-BS	I82531A.D	59	60	79
OP32597-MB	I82530A.D	61	57	79
OP32597-MS	I82533A.D	56	57	75
OP32597-MSD	I82534A.D	71	65	83

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MB	BK23581.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19612-1, MC19612-2, MC19612-3, MC19612-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	113%	36-173%

Blank Spike Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-BS	BK23582.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19612-1, MC19612-2, MC19612-3, MC19612-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.076	107	60-140
106-93-4	1,2-Dibromoethane	0.071	0.092	130	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	108%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MS	BK23583.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
OP32677-MSD	BK23584.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
MC19670-4	BK23585.D	1	04/17/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19612-1, MC19612-2, MC19612-3, MC19612-5

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0694	0.078	112	0.0688	0.080	116	3	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0694	0.086	124	0.0688	0.091	132	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
460-00-4	Bromofluorobenzene (S)	117%	122%	108%	36-173%
460-00-4	Bromofluorobenzene (S)	121%	125%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19612-1	BK23617.D	116	114
MC19612-2	BK23618.D	131	120
MC19612-3	BK23619.D	112	111
MC19612-5	BK23620.D	114	113
OP32677-BS	BK23582.D	108	112
OP32677-MB	BK23581.D	109	113
OP32677-MS	BK23583.D	117	121
OP32677-MSD	BK23584.D	122	125

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK829-ICC829	**Injection Date:**	04/16/13
Lab File ID:	BK23576.D	**Injection Time:**	21:25
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.44	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP32677-MB	BK23581.D	04/16/13	23:29	4.45	4.88
OP32677-BS	BK23582.D	04/16/13	23:56	4.45	4.88
OP32677-MS	BK23583.D	04/17/13	00:22	4.45	4.88
OP32677-MSD	BK23584.D	04/17/13	00:48	4.45	4.88
MC19670-4	BK23585.D	04/17/13	01:15	4.45	4.88
ZZZZZZ	BK23586.D	04/17/13	01:42	4.45	4.88
ZZZZZZ	BK23587.D	04/17/13	02:09	4.45	4.88
ZZZZZZ	BK23588.D	04/17/13	02:35	4.45	4.88
ZZZZZZ	BK23589.D	04/17/13	03:01	4.45	4.88
ZZZZZZ	BK23590.D	04/17/13	03:28	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19612
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-ICC830	**Injection Date:**	04/17/13
Lab File ID:	BK23607.D	**Injection Time:**	11:07
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23610A.D	04/17/13	12:18	4.45	4.88
MC19612-1	BK23617.D	04/17/13	15:53	4.45	4.88
MC19612-2	BK23618.D	04/17/13	16:16	4.45	4.88
MC19612-3	BK23619.D	04/17/13	16:39	4.45	4.88
MC19612-5	BK23620.D	04/17/13	17:02	4.45	4.88
ZZZZZZ	BK23621.D	04/17/13	17:26	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19613

Sampling Date: 04/05/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 41

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 24, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19613

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC19613

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19613-1	04/05/13	09:15	LRMM	04/06/13	AQ	Ground Water	MW18-ROX-040513
MC19613-2	04/05/13	10:10	LRMM	04/06/13	AQ	Ground Water	MW21-ROX-040513
MC19613-3	04/05/13	10:10	LRMM	04/06/13	AQ	Ground Water	MW21-ROX-040513-DUP
MC19613-4	04/05/13	00:00	LRMM	04/06/13	AQ	Trip Blank Water	TB-ROX-040513-HCLA

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 96 3

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** 0/24/20 6 6:26:47 P

3 Samp e(s), Tr p B ank(s) and 0 F e d B ank(s) were co ected on 04/05/20 3 and were rece ved at SGS Accutest New Eng and on 04/06/20 3 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC 96 3 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t -Ch orohexane was searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH 998

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 966 -24MS, MC 966 -24MSD were used as the QC samp es nd cated

Matrix: AQ **Batch ID:** MSV696

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 96 4-2MS, MC 96 4-2MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for Acetone, Acro e n, Bromomethane are outs de contro m ts B ank Sp ke Dup Recovery(s) for Acetone, Acro e n, Naphtha ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Bromomethane, Ch oromethane are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Naphtha ene are outs de contro m ts Probab e cause due to matr x nterference
- 2-Hexanone, Acetone: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- D ch orod f uoromethane: Cont nu ng Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC 96 3)

Summary of Hits

Job Number: MC19613
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19613-1	MW18-ROX-040513					
Acetone [a]		215	5.0	3.0	ug/l	SW846 8260B
Benzene		183	0.50	0.24	ug/l	SW846 8260B
n-Butylbenzene		32.7	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		12.1	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		8.0	5.0	0.64	ug/l	SW846 8260B
Ethylbenzene		2380	10	5.1	ug/l	SW846 8260B
2-Hexanone [a]		190	5.0	2.0	ug/l	SW846 8260B
Isopropylbenzene		97.1	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		10.6	5.0	0.57	ug/l	SW846 8260B
4-Methyl-2-pentanone (MIBK)		126	5.0	2.9	ug/l	SW846 8260B
Naphthalene		289	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		204	5.0	0.58	ug/l	SW846 8260B
Toluene		140	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		929	50	3.5	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		268	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		5290	10	7.3	ug/l	SW846 8260B
o-Xylene		460	10	5.8	ug/l	SW846 8260B
Xylene (total)		5750	10	5.8	ug/l	SW846 8260B
MC19613-2	MW21-ROX-040513					
Benzene		368000	500	240	ug/l	SW846 8260B
n-Butylbenzene		30.9	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		24.6	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		14.3	5.0	0.64	ug/l	SW846 8260B
Ethylbenzene		519 J	1000	510	ug/l	SW846 8260B
Isopropylbenzene		83.4	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		18.6	5.0	0.57	ug/l	SW846 8260B
Naphthalene		175	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		124	5.0	0.58	ug/l	SW846 8260B
Toluene		15.0	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		302	5.0	0.35	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		93.9	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		204	1.0	0.73	ug/l	SW846 8260B
o-Xylene		3.4	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		207	1.0	0.58	ug/l	SW846 8260B
MC19613-3	MW21-ROX-040513-DUP					
Benzene		364000	500	240	ug/l	SW846 8260B
n-Butylbenzene		29.8	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		23.9	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		14.2	5.0	0.64	ug/l	SW846 8260B

Summary of Hits

Job Number: MC19613
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethylbenzene		399	1.0	0.51	ug/l	SW846 8260B
Isopropylbenzene		81.2	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		18.2	5.0	0.57	ug/l	SW846 8260B
Naphthalene		132	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		118	5.0	0.58	ug/l	SW846 8260B
Toluene		14.4	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		287	5.0	0.35	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		90.3	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		196	1.0	0.73	ug/l	SW846 8260B
o-Xylene		2.9	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		199	1.0	0.58	ug/l	SW846 8260B

MC19613-4 TB-ROX-040513-HCLA

No hits reported in this sample.

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW18-ROX-040513		
Lab Sample ID:	MC19613-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17564.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2	H60443.D	10	04/17/13	GK	n/a	n/a	MSH1998

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	215	5.0	3.0	ug/l	
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	183	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	32.7	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	12.1	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	8.0	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18-ROX-040513		
Lab Sample ID:	MC19613-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	2380 [c]	10	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone [a]	190	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	97.1	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	10.6	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	126	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	289	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	204	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	140	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	929 [c]	50	3.5	ug/l	
108-67-8	1,3,5-Trimethylbenzene	268	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	5290 [c]	10	7.3	ug/l	
95-47-6	o-Xylene	460 [c]	10	5.8	ug/l	
1330-20-7	Xylene (total)	5750 [c]	10	5.8	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18-ROX-040513		
Lab Sample ID:	MC19613-1	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	90%	70-130%
2037-26-5	Toluene-D8	108%	103%	70-130%
460-00-4	4-Bromofluorobenzene	97%	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513		
Lab Sample ID:	MC19613-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17565.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2	H60444.D	1000	04/17/13	GK	n/a	n/a	MSH1998

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	368000 [b]	500	240	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	30.9	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	24.6	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	14.3	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513		
Lab Sample ID:	MC19613-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	519 [b]	1000	510	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	83.4	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	18.6	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	175	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	124	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	15.0	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	302	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	93.9	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	204	1.0	0.73	ug/l	
95-47-6	o-Xylene	3.4	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	207	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513		
Lab Sample ID:	MC19613-2	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	89%	70-130%
2037-26-5	Toluene-D8	109%	99%	70-130%
460-00-4	4-Bromofluorobenzene	93%	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513-DUP		
Lab Sample ID:	MC19613-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17566.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2	H60445.D	1000	04/17/13	GK	n/a	n/a	MSH1998

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	364000 [b]	500	240	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	29.8	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	23.9	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	14.2	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513-DUP		
Lab Sample ID:	MC19613-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	399	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	81.2	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	18.2	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	132	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	118	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	14.4	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	287	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	90.3	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	196	1.0	0.73	ug/l	
95-47-6	o-Xylene	2.9	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	199	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW21-ROX-040513-DUP		
Lab Sample ID:	MC19613-3	**Date Sampled:**	04/05/13
Matrix:	AQ - Ground Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	91%	70-130%
2037-26-5	Toluene-D8	109%	100%	70-130%
460-00-4	4-Bromofluorobenzene	94%	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCLA		
Lab Sample ID:	MC19613-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17550.D	1	04/16/13	AMY	n/a	n/a	MSV696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCLA		
Lab Sample ID:	MC19613-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040513-HCLA		
Lab Sample ID:	MC19613-4	**Date Sampled:**	04/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

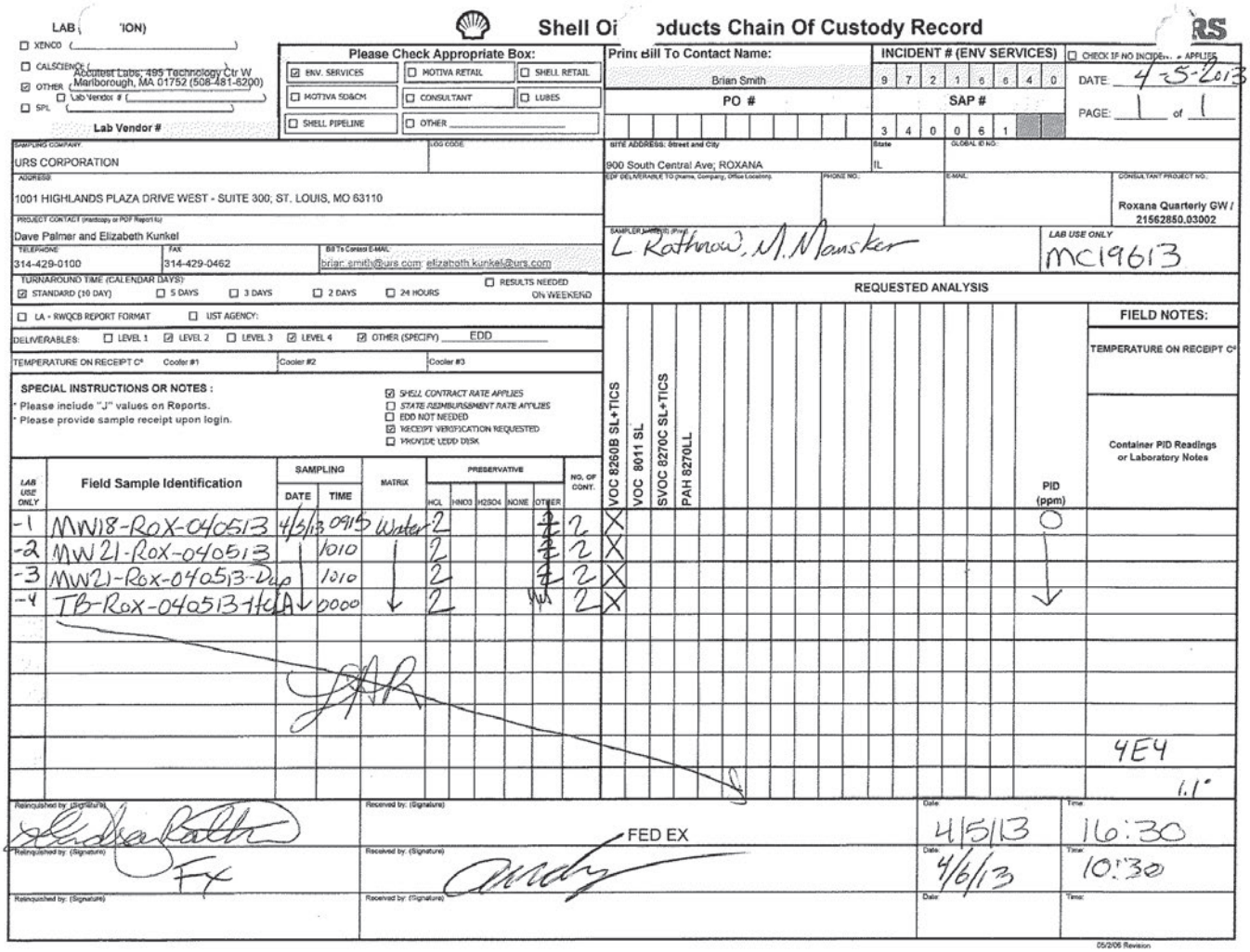
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (ION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Shell Oi oducts Chain Of Custody Record

RS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4-5-2013
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SAMPLER NAME(S) (Print): L Rathnow, M. Mansker
LAB USE ONLY: MC19613

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW18-ROX-040513	4/5/13	0915	Water	2				2	2	X				0	
-2	MW21-ROX-040513	↓	1010	↓	2				2	2	X				↓	
-3	MW21-ROX-040513-Dup	↓	1010	↓	2				2	2	X				↓	
-4	TB-ROX-040513-HCLA	↓	0000	↓	2					2	X				↓	

4E4
1.1°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX	4/5/13	16:30
Fx	[signature]	4/6/13	10:30

05/2/06 Revision

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MC19613: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19613 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/6/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

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MC19613: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19613

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped By	Test Codes
MC19613-1 Collected: 05-APR-13 09:15 By: LRMM Received: 06-APR-13 By: MW18-ROX-040513					
MC19613-1	SW846 8260B	16-APR-13 19:44	AMY		V8260SL1
MC19613-1	SW846 8260B	17-APR-13 14:40	GK		V8260SL1
MC19613-2 Collected: 05-APR-13 10:10 By: LRMM Received: 06-APR-13 By: MW21-ROX-040513					
MC19613-2	SW846 8260B	16-APR-13 20:11	AMY		V8260SL1
MC19613-2	SW846 8260B	17-APR-13 15:07	GK		V8260SL1
MC19613-3 Collected: 05-APR-13 10:10 By: LRMM Received: 06-APR-13 By: MW21-ROX-040513-DUP					
MC19613-3	SW846 8260B	16-APR-13 20:37	AMY		V8260SL1
MC19613-3	SW846 8260B	17-APR-13 15:35	GK		V8260SL1
MC19613-4 Collected: 05-APR-13 00:00 By: LRMM Received: 06-APR-13 By: TB-ROX-040513-HCLA					
MC19613-4	SW846 8260B	16-APR-13 13:33	AMY		V8260SL1

SGS Accutest Internal Chain of Custody

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/06/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19613-1.1	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19613-1.1	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19613-1.1	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19613-1.1	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19613-1.1	Scott Parsick		07/24/13 13:54	Disposed
MC19613-1.2	VOC Ref #4	Kerry Ryan	04/17/13 09:49	Retrieve from Storage
MC19613-1.2	Kerry Ryan	GCMSH	04/17/13 09:49	Load on Instrument
MC19613-1.2	GCMSH	Kerry Ryan	04/18/13 08:04	Unload from Instrument
MC19613-1.2	Kerry Ryan	VOC Ref #4	04/18/13 08:04	Return to Storage
MC19613-1.2	Scott Parsick		07/24/13 13:54	Disposed
MC19613-2.1	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19613-2.1	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19613-2.1	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19613-2.1	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19613-2.1	Scott Parsick		07/24/13 13:54	Disposed
MC19613-2.2	VOC Ref #4	Kerry Ryan	04/17/13 09:49	Retrieve from Storage
MC19613-2.2	Kerry Ryan	GCMSH	04/17/13 09:49	Load on Instrument
MC19613-2.2	GCMSH	Kerry Ryan	04/18/13 08:04	Unload from Instrument
MC19613-2.2	Kerry Ryan	VOC Ref #4	04/18/13 08:04	Return to Storage
MC19613-2.2	Scott Parsick		07/24/13 13:54	Disposed
MC19613-3.1	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19613-3.1	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19613-3.1	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19613-3.1	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19613-3.1	Scott Parsick		07/24/13 13:54	Disposed
MC19613-3.2	VOC Ref #4	Kerry Ryan	04/17/13 09:49	Retrieve from Storage
MC19613-3.2	Kerry Ryan	GCMSH	04/17/13 09:49	Load on Instrument
MC19613-3.2	GCMSH	Kerry Ryan	04/18/13 08:04	Unload from Instrument
MC19613-3.2	Kerry Ryan	VOC Ref #4	04/18/13 08:04	Return to Storage
MC19613-3.2	Scott Parsick		07/24/13 13:54	Disposed
MC19613-4.1	VOC Ref #4	Amy Min Yang	04/16/13 11:33	Retrieve from Storage
MC19613-4.1	Amy Min Yang	GCMSV	04/16/13 11:34	Load on Instrument
MC19613-4.1	GCMSV	Amy Min Yang	04/17/13 16:23	Unload from Instrument
MC19613-4.1	Amy Min Yang	VOC Ref #4	04/17/13 16:23	Return to Storage
MC19613-4.1	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-MB	V17548.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-MB	H60433.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.24	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	112%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	70.1	140* [a]	70.0	140* [a]	0	70-130/25
107-02-8	Acrolein	250	98.7	39* [a]	96.8	39* [a]	2	70-130/25
107-13-1	Acrylonitrile	50	60.8	122	59.3	119	2	70-130/25
71-43-2	Benzene	50	53.9	108	53.1	106	1	70-130/25
108-86-1	Bromobenzene	50	56.8	114	55.8	112	2	70-130/25
74-97-5	Bromochloromethane	50	56.4	113	55.9	112	1	70-130/25
75-27-4	Bromodichloromethane	50	53.7	107	53.5	107	0	70-130/25
75-25-2	Bromoform	50	42.5	85	43.0	86	1	70-130/25
74-83-9	Bromomethane	50	68.0	136* [a]	64.7	129	5	70-130/25
78-93-3	2-Butanone (MEK)	50	63.2	126	63.8	128	1	70-130/25
104-51-8	n-Butylbenzene	50	61.1	122	60.2	120	1	70-130/25
135-98-8	sec-Butylbenzene	50	56.9	114	55.5	111	2	70-130/25
98-06-6	tert-Butylbenzene	50	56.2	112	54.6	109	3	70-130/25
75-15-0	Carbon disulfide	50	56.0	112	54.3	109	3	70-130/25
56-23-5	Carbon tetrachloride	50	52.9	106	51.5	103	3	70-130/25
108-90-7	Chlorobenzene	50	54.4	109	53.4	107	2	70-130/25
75-00-3	Chloroethane	50	62.4	125	59.2	118	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	49.4	99	49.9	100	1	70-130/25
67-66-3	Chloroform	50	54.8	110	53.9	108	2	70-130/25
74-87-3	Chloromethane	50	64.5	129	63.0	126	2	70-130/25
95-49-8	o-Chlorotoluene	50	54.6	109	53.8	108	1	70-130/25
106-43-4	p-Chlorotoluene	50	56.7	113	55.9	112	1	70-130/25
124-48-1	Dibromochloromethane	50	47.1	94	47.2	94	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	55.6	111	55.1	110	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	54.9	110	54.0	108	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	57.4	115	56.2	112	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	51.6	103	50.7	101	2	70-130/25
75-34-3	1,1-Dichloroethane	50	56.5	113	55.6	111	2	70-130/25
107-06-2	1,2-Dichloroethane	50	54.2	108	54.0	108	0	70-130/25
75-35-4	1,1-Dichloroethene	50	57.8	116	56.3	113	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	54.4	109	53.5	107	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	55.6	111	54.5	109	2	70-130/25
78-87-5	1,2-Dichloropropane	50	53.7	107	53.3	107	1	70-130/25
142-28-9	1,3-Dichloropropane	50	54.3	109	54.1	108	0	70-130/25
594-20-7	2,2-Dichloropropane	50	57.8	116	56.0	112	3	70-130/25
563-58-6	1,1-Dichloropropene	50	55.0	110	54.0	108	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: Method: SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	52.7	105	52.8	106	0	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	48.7	97	48.9	98	0	70-130/25
123-91-1	1,4-Dioxane	250	253	101	260	104	3	70-130/25
97-63-2	Ethyl methacrylate	50	52.2	104	52.3	105	0	77-137/25
100-41-4	Ethylbenzene	50	57.5	115	56.6	113	2	70-130/25
87-68-3	Hexachlorobutadiene	50	54.3	109	54.8	110	1	70-130/25
591-78-6	2-Hexanone	50	59.5	119	59.9	120	1	70-130/25
98-82-8	Isopropylbenzene	50	56.1	112	55.1	110	2	70-130/25
99-87-6	p-Isopropyltoluene	50	61.5	123	60.8	122	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	49.4	99	49.7	99	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.9	100	50.4	101	1	70-130/25
74-95-3	Methylene bromide	50	54.8	110	55.1	110	1	70-130/25
75-09-2	Methylene chloride	50	55.7	111	55.3	111	1	70-130/25
91-20-3	Naphthalene	50	62.2	124	65.8	132* [a]	6	70-130/25
103-65-1	n-Propylbenzene	50	56.2	112	54.9	110	2	70-130/25
100-42-5	Styrene	50	57.2	114	56.4	113	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	56.9	114	56.2	112	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	61.9	124	62.1	124	0	70-130/25
127-18-4	Tetrachloroethene	50	54.8	110	53.5	107	2	70-130/25
108-88-3	Toluene	50	54.7	109	53.9	108	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	59.4	119	64.4	129	8	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	57.5	115	59.0	118	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	53.6	107	52.3	105	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.3	107	53.3	107	0	70-130/25
79-01-6	Trichloroethene	50	51.2	102	50.3	101	2	70-130/25
75-69-4	Trichlorofluoromethane	50	57.5	115	55.3	111	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	56.2	112	56.3	113	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	57.6	115	56.6	113	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	57.4	115	56.3	113	2	70-130/25
108-05-4	Vinyl Acetate	50	54.9	110	55.2	110	1	70-130/25
75-01-4	Vinyl chloride	50	53.5	107	51.9	104	3	70-130/25
	m,p-Xylene	100	115	115	112	112	3	70-130/25
95-47-6	o-Xylene	50	54.8	110	53.6	107	2	70-130/25
1330-20-7	Xylene (total)	150	170	113	165	110	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV696-BS	V17544.D	1	04/16/13	AMY	n/a	n/a	MSV696
MSV696-BSD	V17545.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	106%	70-130%
2037-26-5	Toluene-D8	104%	104%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH1998-BS	H60430.D	1	04/17/13	GK	n/a	n/a	MSH1998
MSH1998-BSD	H60431.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	52.2	104	50.3	101	4	70-130/25
100-41-4	Ethylbenzene	50	58.2	116	56.0	112	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	56.3	113	54.9	110	3	70-130/25
	m,p-Xylene	100	115	115	114	114	1	70-130/25
95-47-6	o-Xylene	50	56.4	113	54.8	110	3	70-130/25
1330-20-7	Xylene (total)	150	171	114	169	113	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	70-130%
2037-26-5	Toluene-D8	102%	101%	70-130%
460-00-4	4-Bromofluorobenzene	109%	109%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	MC19614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	58.5	117	50	57.3	115	2	70-130/30
107-02-8	Acrolein	ND		250	225	90	250	224	90	0	70-130/30
107-13-1	Acrylonitrile	ND		50	62.1	124	50	59.1	118	5	70-130/30
71-43-2	Benzene	ND		50	54.0	108	50	52.0	104	4	70-130/30
108-86-1	Bromobenzene	ND		50	54.3	109	50	53.4	107	2	70-130/30
74-97-5	Bromochloromethane	ND		50	56.0	112	50	54.6	109	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	52.9	106	50	51.9	104	2	70-130/30
75-25-2	Bromoform	ND		50	40.2	80	50	41.3	83	3	70-130/30
74-83-9	Bromomethane	ND		50	66.9	134* [a]	50	64.6	129	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	54.2	108	50	52.2	104	4	70-130/30
104-51-8	n-Butylbenzene	ND		50	58.8	118	50	57.3	115	3	70-130/30
135-98-8	sec-Butylbenzene	0.77	J	50	54.2	107	50	53.0	104	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50	52.5	105	50	51.5	103	2	70-130/30
75-15-0	Carbon disulfide	ND		50	55.3	111	50	53.0	106	4	70-130/30
56-23-5	Carbon tetrachloride	ND		50	51.5	103	50	50.1	100	3	70-130/30
108-90-7	Chlorobenzene	ND		50	51.8	104	50	50.8	102	2	70-130/30
75-00-3	Chloroethane	ND		50	61.3	123	50	59.8	120	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	55.0	110	50	53.1	106	4	70-130/30
74-87-3	Chloromethane	ND		50	68.0	136* [a]	50	64.5	129	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	52.7	105	50	51.6	103	2	70-130/30
106-43-4	p-Chlorotoluene	ND		50	54.9	110	50	53.8	108	2	70-130/30
124-48-1	Dibromochloromethane	ND		50	45.5	91	50	45.3	91	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	53.3	107	50	52.9	106	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	52.2	104	50	51.6	103	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	54.6	109	50	54.0	108	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	53.1	106	50	50.8	102	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	57.3	115	50	55.0	110	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	55.7	111	50	54.1	108	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	57.1	114	50	54.9	110	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	54.4	109	50	52.2	104	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	55.5	111	50	52.9	106	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	54.2	108	50	52.7	105	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	53.3	107	50	52.0	104	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	55.5	111	50	53.1	106	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	54.9	110	50	52.4	105	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: Method: SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Compound	MC19614-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	51.6	103	50	50.1	100	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.9	96	50	47.5	95	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	274	110	250	261	104	5	70-130/30
97-63-2	Ethyl methacrylate	ND		50	53.4	107	50	52.8	106	1	72-139/30
100-41-4	Ethylbenzene	ND		50	55.4	111	50	54.3	109	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	50.6	101	50	50.7	101	0	70-130/30
591-78-6	2-Hexanone	ND		50	54.1	108	50	53.6	107	1	70-130/30
98-82-8	Isopropylbenzene	1.1	J	50	54.4	107	50	53.4	105	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	58.7	117	50	57.5	115	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	60.5		50	110	99	50	107	93	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	53.1	106	50	52.2	104	2	70-130/30
74-95-3	Methylene bromide	ND		50	55.4	111	50	53.9	108	3	70-130/30
75-09-2	Methylene chloride	ND		50	56.7	113	50	54.4	109	4	70-130/30
91-20-3	Naphthalene	ND		50	52.1	104	50	66.5	133* [a]	24	70-130/30
103-65-1	n-Propylbenzene	ND		50	54.1	108	50	52.8	106	2	70-130/30
100-42-5	Styrene	ND		50	54.8	110	50	53.9	108	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	54.4	109	50	53.7	107	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	63.2	126	50	63.2	126	0	70-130/30
127-18-4	Tetrachloroethene	ND		50	50.7	101	50	49.9	100	2	70-130/30
108-88-3	Toluene	ND		50	54.0	108	50	52.1	104	4	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.9	98	50	58.4	117	18	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	52.6	105	50	55.4	111	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	52.5	105	50	50.8	102	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.6	107	50	51.9	104	3	70-130/30
79-01-6	Trichloroethene	ND		50	49.6	99	50	48.0	96	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	59.2	118	50	56.3	113	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	56.4	113	50	56.2	112	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	55.4	111	50	54.0	108	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	54.7	109	50	53.6	107	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	58.7	117	50	56.6	113	4	70-130/30
75-01-4	Vinyl chloride	ND		50	53.4	107	50	51.7	103	3	70-130/30
	m,p-Xylene	1.4		100	110	109	100	107	106	3	70-130/30
95-47-6	o-Xylene	0.79	J	50	52.8	104	50	52.3	103	1	70-130/30
1330-20-7	Xylene (total)	2.1		150	163	107	150	159	105	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19614-2MS	V17555.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2MSD	V17556.D	1	04/16/13	AMY	n/a	n/a	MSV696
MC19614-2	V17553.D	1	04/16/13	AMY	n/a	n/a	MSV696

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3, MC19613-4

CAS No.	Surrogate Recoveries	MS	MSD	MC19614-2	Limits
1868-53-7	Dibromofluoromethane	108%	107%	104%	70-130%
2037-26-5	Toluene-D8	105%	105%	104%	70-130%
460-00-4	4-Bromofluorobenzene	94%	94%	97%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19661-24MS	H60438.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24MSD	H60439.D	5	04/17/13	GK	n/a	n/a	MSH1998
MC19661-24 [a]	H60434.D	1	04/17/13	GK	n/a	n/a	MSH1998

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19613-1, MC19613-2, MC19613-3

CAS No.	Compound	MC19661-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	55.1		250	292	95	250	292	95	0	70-130/30
100-41-4	Ethylbenzene	ND		250	281	112	250	281	112	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	0.58		250	268	107	250	264	105	2	70-130/30
	m,p-Xylene	ND		500	561	112	500	557	111	1	70-130/30
95-47-6	o-Xylene	ND		250	270	108	250	273	109	1	70-130/30
1330-20-7	Xylene (total)	ND		750	831	111	750	830	111	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC19661-24	Limits
1868-53-7	Dibromofluoromethane	98%	96%	92%	70-130%
2037-26-5	Toluene-D8	102%	102%	102%	70-130%
460-00-4	4-Bromofluorobenzene	110%	108%	116%	70-130%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH1998-CC1993	**Injection Date:**	04/17/13
Lab File ID:	H60429.D	**Injection Time:**	08:13
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	168742	8.70	243455	9.57	110719	12.83	141232	15.39	33112	6.27
Upper Limit [a]	337484	9.20	486910	10.07	221438	13.33	282464	15.89	66224	6.77
Lower Limit [b]	84371	8.20	121728	9.07	55360	12.33	70616	14.89	16556	5.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH1998-BS	178972	8.70	258516	9.57	116906	12.83	146613	15.39	37350	6.28
MSH1998-BSD	187579	8.70	269162	9.57	119562	12.83	150883	15.39	39631	6.27
MSH1998-MB	172057	8.70	237410	9.57	103902	12.83	124770	15.40	36685	6.28
MC19661-24	171481	8.70	245234	9.57	103157	12.83	121946	15.40	30651	6.28
ZZZZZZ	170617	8.70	236248	9.57	100470	12.83	119905	15.40	32490	6.28
ZZZZZZ	163514	8.70	225668	9.57	98549	12.83	115944	15.40	35393	6.27
ZZZZZZ	165507	8.70	226533	9.57	97141	12.83	133557	15.39	38209	6.28
MC19661-24MS	179027	8.70	258808	9.57	114363	12.83	147074	15.40	36147	6.27
MC19661-24MSD	184681	8.70	264350	9.57	117356	12.82	150717	15.39	38578	6.27
ZZZZZZ	187392	8.70	258336	9.57	108844	12.83	134542	15.40	40722	6.27
ZZZZZZ	179078	8.70	246743	9.57	105818	12.82	128021	15.40	38295	6.27
ZZZZZZ	175554	8.70	245382	9.57	107831	12.83	134305	15.40	37501	6.27
MC19613-1	180096	8.70	250522	9.57	107074	12.83	142416	15.39	40136	6.28
MC19613-2	184337	8.70	274281	9.57	109980	12.83	132866	15.40	36884	6.28
MC19613-3	175858	8.70	259395	9.57	103618	12.83	128041	15.40	38524	6.28
ZZZZZZ	175054	8.70	242295	9.57	105941	12.83	124758	15.40	38358	6.28
ZZZZZZ	169804	8.70	232489	9.57	102401	12.83	142416	15.39	41711	6.27
ZZZZZZ	191994	8.70	260722	9.57	110859	12.83	135974	15.40	41014	6.27
ZZZZZZ	182412	8.70	254576	9.57	107529	12.83	130004	15.39	38943	6.27
ZZZZZZ	178960	8.70	245972	9.57	105816	12.83	128548	15.40	39513	6.28
ZZZZZZ	173006	8.70	239000	9.57	105699	12.83	148646	15.40	41556	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV696-CC692	**Injection Date:**	04/16/13
Lab File ID:	V17543.D	**Injection Time:**	10:27
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	554754	6.53	838734	7.72	343855	11.06	403347	13.28	79936	3.48
Upper Limit [a]	1109508	7.03	1677468	8.22	687710	11.56	806694	13.78	159872	3.98
Lower Limit [b]	277377	6.03	419367	7.22	171928	10.56	201674	12.78	39968	2.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV696-BS	538081	6.54	814975	7.72	337503	11.07	397539	13.28	85881	3.49
MSV696-BSD	541869	6.53	818945	7.72	342139	11.07	400859	13.28	87905	3.48
MSV696-MB	530337	6.54	805278	7.73	330949	11.07	370563	13.28	86419	3.49
ZZZZZZ	541502	6.54	820138	7.73	336838	11.07	377520	13.28	86011	3.49
MC19613-4	520364	6.54	796954	7.72	326684	11.07	363054	13.28	78829	3.48
ZZZZZZ	515991	6.55	789892	7.73	327228	11.07	363592	13.28	83121	3.50
ZZZZZZ	522291	6.54	795685	7.73	328032	11.07	362545	13.28	81743	3.49
MC19614-2	507086	6.54	773848	7.73	322548	11.07	358995	13.28	82889	3.49
MC19614-2MS	509248	6.55	773003	7.73	330008	11.07	382821	13.29	92117	3.50
MC19614-2MSD	527394	6.55	799814	7.73	336272	11.07	391796	13.28	94973	3.50
MC19614-6MS	532481	6.54	810949	7.73	338776	11.07	393013	13.29	91973	3.49
MC19614-6MSD	536285	6.55	814603	7.73	340667	11.07	395032	13.29	90541	3.50
ZZZZZZ	531530	6.55	807640	7.73	334972	11.07	375783	13.29	84915	3.50
MC19614-6	504621	6.55	774124	7.73	321767	11.07	355223	13.29	80377	3.49
ZZZZZZ	532384	6.56	818484	7.74	359632	11.08	413875	13.29	160710[c]	3.52
ZZZZZZ	559045	6.55	836770	7.74	351477	11.07	413779	13.29	130639	3.51
MC19613-1	535255	6.55	823392	7.74	355639	11.08	414403	13.29	179718[c]	3.52
MC19613-2	539242	6.70	873942	7.80	385529	11.08	441346	13.29	103276	3.52
MC19613-3	585158	6.69	895809	7.79	392074	11.08	456792	13.29	109547	3.52
ZZZZZZ	596386	6.55	883051	7.73	374177	11.07	453138	13.29	114956	3.50
ZZZZZZ	624753	6.55	910052	7.74	385570	11.08	467398	13.29	108542	3.50

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC19613
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19613-1	H60443.D	90	103	109
MC19613-1	V17564.D	100	108	97
MC19613-2	H60444.D	89	99	111
MC19613-2	V17565.D	102	109	93
MC19613-3	H60445.D	91	100	111
MC19613-3	V17566.D	98	109	94
MC19613-4	V17550.D	104	102	96
MC19614-2MS	V17555.D	108	105	94
MC19614-2MSD	V17556.D	107	105	94
MC19661-24MS	H60438.D	98	102	110
MC19661-24MSD	H60439.D	96	102	108
MSH1998-BS	H60430.D	99	102	109
MSH1998-BSD	H60431.D	98	101	109
MSH1998-MB	H60433.D	92	106	112
MSV696-BS	V17544.D	106	104	93
MSV696-BSD	V17545.D	106	104	93
MSV696-MB	V17548.D	102	102	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19670

Sampling Date: 04/08/13

Report to:

AECOM, INC.

elizabeth.kunkel@aecom.com

ATTN: Elizabeth Kunkel

Total number of pages in report: 92

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 24, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19670

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS ACCUTEST

January 18, 2017

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19670 (reissue #2)

Dear Elizabeth Kunkel,

The report of SGS Accutest job number MC19670 has been revised and reissued due to report the corrected ICV and CCVs in associated samples which were originally evaluated based on DoD criteria. These corrections have been incorporated into the revised report.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC19670

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19670-1	04/08/13	10:05	LRMM	04/09/13	AQ	Ground Water	MW16-ROX-040813
MC19670-2	04/08/13	10:30	LRMM	04/09/13	AQ	Equipment Blank	MW16-ROX-040813-EB
MC19670-3	04/08/13	11:10	LRMM	04/09/13	AQ	Ground Water	MW3-ROX-040813
MC19670-4	04/08/13	13:15	LRMM	04/09/13	AQ	Ground Water	MW12-ROX-040813
MC19670-4D	04/08/13	13:15	LRMM	04/09/13	AQ	Water Dup/MSD	MW12-ROX-040813
MC19670-4S	04/08/13	13:15	LRMM	04/09/13	AQ	Water Matrix Spike	MW12-ROX-040813
MC19670-5	04/08/13	14:40	LRMM	04/09/13	AQ	Ground Water	MW11-ROX-040813
MC19670-6	04/08/13	00:00	LRMM	04/09/13	AQ	Trip Blank Water	TB-ROX-040813-HCL
MC19670-7	04/08/13	00:00	LRMM	04/09/13	AQ	Trip Blank Water	TB-ROX-040813-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Shell Oil **Job No** MC19670

Site: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Centra **Report Date** 1/18/2017 10:30:15 A

5 Sample(s), 2 Trip Blank(s) were collected on 04/08/2013 and were received at SGS Accutest New England on 04/09/2013 properly preserved, at 0.4 Deg. C and intact. These Samples received a job number of MC19670. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSV699

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Dup Recovery(s) for Acetone, Acrolein, Naphthalene are outside control limits.
- Blank Spike Recovery(s) for Acetone, Acrolein, Bromomethane are outside control limits.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 2-Chloroethyl vinyl ether, Acrylonitrile, Naphthalene are outside control limits. Outside control limits due to possible matrix interference.
- RPD(s) for MSD for Naphthalene are outside control limits for sample MC19670-4MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC19670-2 for Acetone: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
- Acrolein: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP32654

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene, Pyridine are outside control limits.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, Aniline, Pyridine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Aniline, 3,3'-Dichlorobenzidine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 3,3'-Dichlorobenzidine are outside control limits for sample OP32654-MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32655

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32677

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC19670-4MS, MC19670-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC19670).

Summary of Hits

Job Number: MC19670
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/08/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19670-1	MW16-ROX-040813					
Benzene		0.58	0.50	0.24	ug/l	SW846 8260B
2-Methylnaphthalene		0.058 J	0.21	0.054	ug/l	SW846 8270C BY SIM
MC19670-2	MW16-ROX-040813-EB					
Acetone [a]		4.1 J	5.0	3.0	ug/l	SW846 8260B
Benzene		0.39 J	0.50	0.24	ug/l	SW846 8260B
MC19670-3	MW3-ROX-040813					
Benzene		8.0	0.50	0.24	ug/l	SW846 8260B
MC19670-4	MW12-ROX-040813					
Benzene		0.88	0.50	0.24	ug/l	SW846 8260B
Fluoranthene		0.044 J	0.10	0.034	ug/l	SW846 8270C BY SIM
MC19670-5	MW11-ROX-040813					
Benzene		0.65	0.50	0.24	ug/l	SW846 8260B
MC19670-6	TB-ROX-040813-HCL					
No hits reported in this sample.						
MC19670-7	TB-ROX-040813-ST					
No hits reported in this sample.						

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17650.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.58	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11179.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		15-110%
4165-62-2	Phenol-d5	41%		15-110%
118-79-6	2,4,6-Tribromophenol	86%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%
1718-51-0	Terphenyl-d14	101%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82599.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	0.058	0.21	0.054	ug/l	J
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813		
Lab Sample ID:	MC19670-1	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23621.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	106%		36-173%
460-00-4	Bromofluorobenzene (S)	106%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17648.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	4.1	5.0	3.0	ug/l	J
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.39	0.50	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11180.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.43	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.55	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.37	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.66	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.6	0.58	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.36	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.96	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.65	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.24	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.73	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.76	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.72	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.56	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.44	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.49	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.56	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.56	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.55	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.49	ug/l	
78-59-1	Isophorone	ND	5.6	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.56	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.9	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.28	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	0.56	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.91	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.61	ug/l	
110-86-1	Pyridine	ND	11	0.58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	106%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82600.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.015	ug/l	
120-12-7	Anthracene	ND	0.11	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.034	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.020	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.027	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.042	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.066	ug/l	
218-01-9	Chrysene	ND	0.11	0.082	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.047	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.037	ug/l	
86-73-7	Fluorene	ND	0.11	0.052	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.052	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.16	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.058	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-040813-EB		
Lab Sample ID:	MC19670-2	**Date Sampled:**	04/08/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23623.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		36-173%
460-00-4	Bromofluorobenzene (S)	116%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17651.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	8.0	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11181.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.44	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.56	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.37	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.4	ug/l	
95-48-7	2-Methylphenol	ND	11	1.5	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.66	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.7	0.58	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.36	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.97	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.65	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.24	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.23	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.74	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.77	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.73	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.57	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.7	0.44	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.7	0.49	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.57	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.56	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.34	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.50	ug/l	
78-59-1	Isophorone	ND	5.7	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.9	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.28	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	0.57	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.92	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.61	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	70%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	101%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82601.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.015	ug/l	
120-12-7	Anthracene	ND	0.11	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.034	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.020	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.027	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.043	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.066	ug/l	
218-01-9	Chrysene	ND	0.11	0.083	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.047	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.037	ug/l	
86-73-7	Fluorene	ND	0.11	0.053	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.052	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.23	0.16	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.23	0.059	ug/l	
85-01-8	Phenanthrene	ND	0.057	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-040813		
Lab Sample ID:	MC19670-3	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23624.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	114%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17649.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.88	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

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Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11182.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.89	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.60	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.96	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.68	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.67	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.46	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.84	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		15-110%
4165-62-2	Phenol-d5	19%		15-110%
118-79-6	2,4,6-Tribromophenol	73%		15-110%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	98%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82602.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.061	ug/l	
218-01-9	Chrysene	ND	0.10	0.076	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	0.044	0.10	0.034	ug/l	J
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW12-ROX-040813		
Lab Sample ID:	MC19670-4	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23585.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	114%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17652.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.65	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11183.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	107%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82603.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.034	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.055	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11-ROX-040813		
Lab Sample ID:	MC19670-5	**Date Sampled:**	04/08/13
Matrix:	AQ - Ground Water	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23625.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	104%		36-173%
460-00-4	Bromofluorobenzene (S)	106%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040813-HCL		
Lab Sample ID:	MC19670-6	**Date Sampled:**	04/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17646.D	1	04/18/13	AMY	n/a	n/a	MSV699
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040813-HCL		
Lab Sample ID:	MC19670-6	**Date Sampled:**	04/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040813-HCL		
Lab Sample ID:	MC19670-6	**Date Sampled:**	04/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/09/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040813-ST		
Lab Sample ID:	MC19670-7	**Date Sampled:**	04/08/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/09/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23626.D	1	04/17/13	NK	04/15/13	OP32677	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	129%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

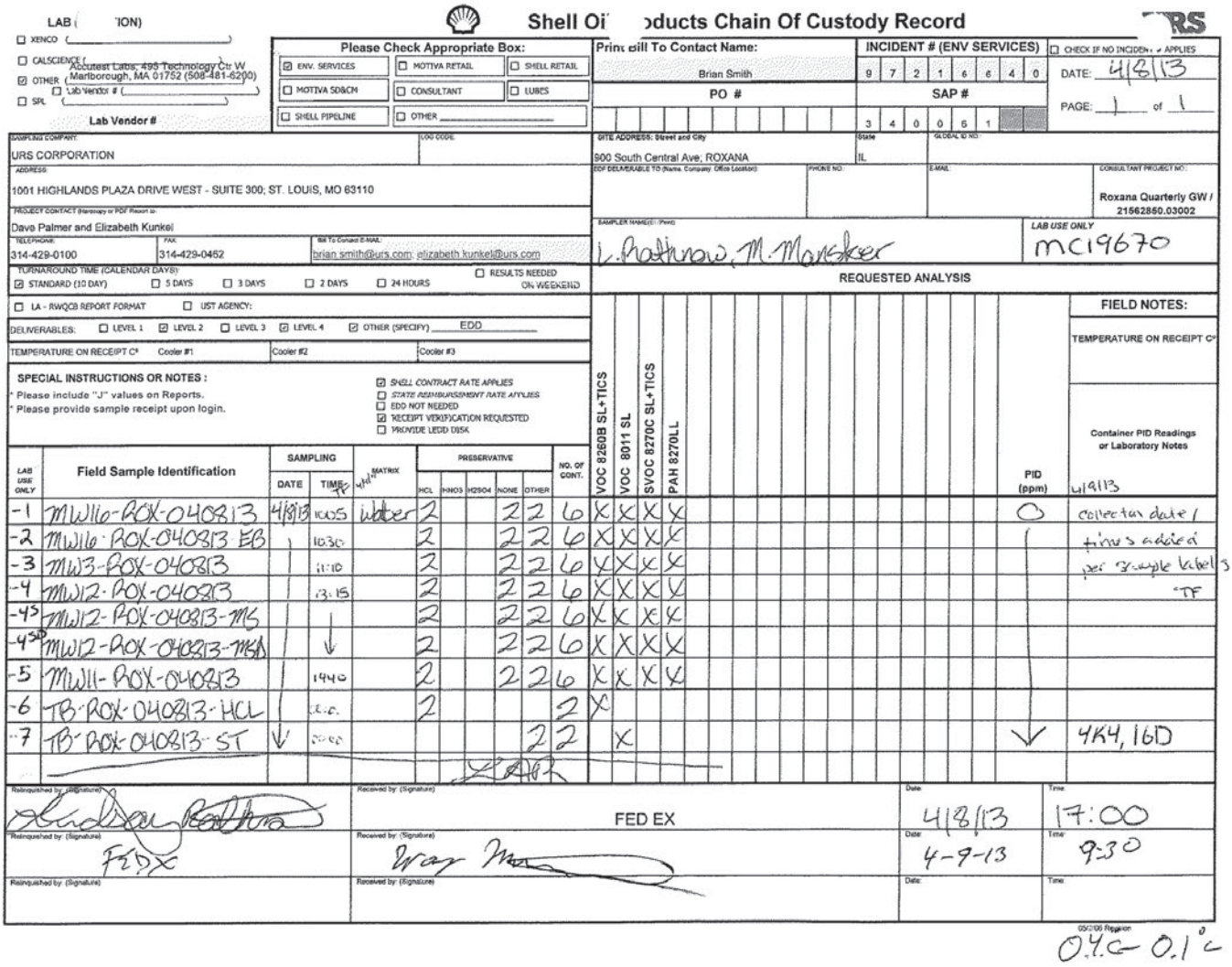
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (ION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Shell Oi oducts Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 5 1

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4/8/13
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0452
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SAMPLER NAME(S) (Print): L. Rathnow, M. Mansker
LAB USE ONLY: MC19670

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes 4/8/13
-1	MW16-ROX-040813	4/8/13	1005	Water	2			2	2	6	X	X	X	X	0	collection date /
-2	MW16-ROX-040813-EB		1030		2			2	2	6	X	X	X	X		times added
-3	MW3-ROX-040813		1110		2			2	2	6	X	X	X	X		per sample labels
-4	MW12-ROX-040813		1315		2			2	2	6	X	X	X	X		TF
-4S	MW12-ROX-040813-MS				2			2	2	6	X	X	X	X		
-4SD	MW12-ROX-040813-MSD				2			2	2	6	X	X	X	X		
-5	MW11-ROX-040813		1440		2			2	2	6	X	X	X	X		
-6	TB-ROX-040813-HCL		[illegible]		2					2	X					
-7	TB-ROX-040813-ST		[illegible]						2	2		X				4K4, 16D

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX	4/8/13	17:00
FEDX	[signature]	4-9-13	9:30

05/2/06 Revision
0.4°C - 0.1°C

MC19670: Chain of Custody
Page 1 of 2

5.1
5
50 of 92
SGS ACCUTEST MC19670

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19670 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/9/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRA **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☐		☑

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Collection date noted on first sample, no collection times recorded on COC.

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC19670: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19670

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19670-1 Collected: 08-APR-13 10:05 By: LRMM Received: 09-APR-13 By: MW16-ROX-040813						
MC19670-1	SW846 8270C BY SIM	15-APR-13 15:56	NS	14-APR-13	MEW	B8270SIMSL
MC19670-1	SW846 8270C	15-APR-13 21:21	KR	14-APR-13	MEW	AB8270SL+
MC19670-1	SW846 8011	17-APR-13 17:26	NK	15-APR-13	PA	V8011SL
MC19670-1	SW846 8260B	18-APR-13 10:21	AMY			V8260SL+
MC19670-2 Collected: 08-APR-13 10:30 By: LRMM Received: 09-APR-13 By: MW16-ROX-040813-EB						
MC19670-2	SW846 8270C BY SIM	15-APR-13 16:19	NS	14-APR-13	MEW	B8270SIMSL
MC19670-2	SW846 8270C	15-APR-13 21:45	KR	14-APR-13	MEW	AB8270SL+
MC19670-2	SW846 8011	17-APR-13 18:12	NK	15-APR-13	PA	V8011SL
MC19670-2	SW846 8260B	18-APR-13 09:28	AMY			V8260SL+
MC19670-3 Collected: 08-APR-13 11:10 By: LRMM Received: 09-APR-13 By: MW3-ROX-040813						
MC19670-3	SW846 8270C BY SIM	15-APR-13 16:43	NS	14-APR-13	MEW	B8270SIMSL
MC19670-3	SW846 8270C	15-APR-13 22:09	KR	14-APR-13	MEW	AB8270SL+
MC19670-3	SW846 8011	17-APR-13 18:35	NK	15-APR-13	PA	V8011SL
MC19670-3	SW846 8260B	18-APR-13 10:47	AMY			V8260SL+
MC19670-4 Collected: 08-APR-13 13:15 By: LRMM Received: 09-APR-13 By: MW12-ROX-040813						
MC19670-4	SW846 8270C BY SIM	15-APR-13 17:06	NS	14-APR-13	MEW	B8270SIMSL
MC19670-4	SW846 8270C	15-APR-13 22:32	KR	14-APR-13	MEW	AB8270SL+
MC19670-4	SW846 8011	17-APR-13 01:15	NK	15-APR-13	PA	V8011SL
MC19670-4	SW846 8260B	18-APR-13 09:54	AMY			V8260SL+
MC19670-5 Collected: 08-APR-13 14:40 By: LRMM Received: 09-APR-13 By: MW11-ROX-040813						
MC19670-5	SW846 8270C BY SIM	15-APR-13 17:30	NS	14-APR-13	MEW	B8270SIMSL
MC19670-5	SW846 8270C	15-APR-13 22:56	KR	14-APR-13	MEW	AB8270SL+
MC19670-5	SW846 8011	17-APR-13 18:59	NK	15-APR-13	PA	V8011SL
MC19670-5	SW846 8260B	18-APR-13 11:13	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19670

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19670-6 Collected: 08-APR-13 00:00 By: LRMM Received: 09-APR-13 By: TB-ROX-040813-HCL						
MC19670-6	SW846 8260B	18-APR-13 08:34	AMY			V8260SL+
MC19670-7 Collected: 08-APR-13 00:00 By: LRMM Received: 09-APR-13 By: TB-ROX-040813-ST						
MC19670-7	SW846 8011	17-APR-13 19:22	NK	15-APR-13	PA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/09/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19670-1.2	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-1.2	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-1.4	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-1.4	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-1.4	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-1.4	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-1.4	Scott Parsick		07/24/13 13:54	Disposed
MC19670-1.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-1.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-1.5	Scott Parsick		07/24/13 13:54	Disposed
MC19670-2.2	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-2.2	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-2.4	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-2.4	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-2.4	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-2.4	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-2.4	Scott Parsick		07/24/13 13:54	Disposed
MC19670-2.6	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-2.6	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-2.6	Scott Parsick		07/24/13 13:54	Disposed
MC19670-3.1	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-3.1	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-3.4	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-3.4	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-3.4	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-3.4	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19670-3.6	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-3.6	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-3.6	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.3	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-4.3	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-4.4	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-4.4	Amirhossein Farvardin		04/14/13 13:19	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/09/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19670-4.6	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-4.6	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-4.7	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-4.7	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-4.7	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-4.7	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-4.7	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.8	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-4.8	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-4.8	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-4.8	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-4.8	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.9	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-4.9	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-4.9	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-4.9	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-4.9	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.10	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-4.10	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-4.10	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-4.10	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-4.10	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.13	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-4.13	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-4.13	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.15	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-4.15	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-4.15	Scott Parsick		07/24/13 13:54	Disposed
MC19670-4.18	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-4.18	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-4.18	Scott Parsick		07/24/13 13:54	Disposed
MC19670-5.2	Walk In Ref #22	Amirhossein Farvardin	04/14/13 09:05	Retrieve from Storage
MC19670-5.2	Amirhossein Farvardin		04/14/13 13:19	Depleted
MC19670-5.3	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/09/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19670-5.3	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-5.3	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-5.3	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-5.3	Scott Parsick		07/24/13 13:54	Disposed
MC19670-5.5	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-5.5	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-5.5	Scott Parsick		07/24/13 13:54	Disposed
MC19670-6.1	VOC Ref #4	Amy Min Yang	04/18/13 07:21	Retrieve from Storage
MC19670-6.1	Amy Min Yang	GCMSV	04/18/13 07:21	Load on Instrument
MC19670-6.1	GCMSV	Amy Min Yang	04/20/13 10:55	Unload from Instrument
MC19670-6.1	Amy Min Yang	VOC Ref #4	04/20/13 10:55	Return to Storage
MC19670-6.1	Scott Parsick		07/24/13 13:54	Disposed
MC19670-7.2	VOC Ref #4	Thomas Abruzzise	04/15/13 14:19	Retrieve from Storage
MC19670-7.2	Thomas Abruzzise	VOC Ref #4	04/17/13 14:05	Return to Storage
MC19670-7.2	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-MB	V17645.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-MB	V17645.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-MB	V17645.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-BS	V17640.D	1	04/18/13	AMY	n/a	n/a	MSV699
MSV699-BSD	V17641.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: Method: SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	68.2	136* [a]	67.4	135* [a]	1	70-130/25
107-02-8	Acrolein	250	128	51* [a]	117	47* [a]	9	70-130/25
107-13-1	Acrylonitrile	50	59.3	119	56.7	113	4	70-130/25
71-43-2	Benzene	50	53.9	108	52.1	104	3	70-130/25
108-86-1	Bromobenzene	50	55.8	112	54.5	109	2	70-130/25
74-97-5	Bromochloromethane	50	56.3	113	55.5	111	1	70-130/25
75-27-4	Bromodichloromethane	50	54.8	110	54.3	109	1	70-130/25
75-25-2	Bromoform	50	41.5	83	42.0	84	1	70-130/25
74-83-9	Bromomethane	50	67.1	134* [a]	65.0	130	3	70-130/25
78-93-3	2-Butanone (MEK)	50	58.4	117	58.1	116	1	70-130/25
104-51-8	n-Butylbenzene	50	58.6	117	56.3	113	4	70-130/25
135-98-8	sec-Butylbenzene	50	54.2	108	52.4	105	3	70-130/25
98-06-6	tert-Butylbenzene	50	53.4	107	51.6	103	3	70-130/25
75-15-0	Carbon disulfide	50	53.0	106	51.0	102	4	70-130/25
56-23-5	Carbon tetrachloride	50	50.2	100	47.8	96	5	70-130/25
108-90-7	Chlorobenzene	50	52.4	105	51.0	102	3	70-130/25
75-00-3	Chloroethane	50	63.8	128	60.8	122	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	49.5	99	49.6	99	0	70-130/25
67-66-3	Chloroform	50	55.9	112	54.6	109	2	70-130/25
74-87-3	Chloromethane	50	64.2	128	63.0	126	2	70-130/25
95-49-8	o-Chlorotoluene	50	54.8	110	53.2	106	3	70-130/25
106-43-4	p-Chlorotoluene	50	57.0	114	55.1	110	3	70-130/25
124-48-1	Dibromochloromethane	50	46.1	92	46.2	92	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	55.3	111	54.2	108	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	54.3	109	52.5	105	3	70-130/25
106-46-7	1,4-Dichlorobenzene	50	56.3	113	54.9	110	3	70-130/25
75-71-8	Dichlorodifluoromethane	50	43.7	87	42.0	84	4	70-130/25
75-34-3	1,1-Dichloroethane	50	57.6	115	56.2	112	2	70-130/25
107-06-2	1,2-Dichloroethane	50	55.4	111	55.0	110	1	70-130/25
75-35-4	1,1-Dichloroethene	50	53.4	107	51.4	103	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	54.1	108	53.0	106	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.3	109	52.5	105	3	70-130/25
78-87-5	1,2-Dichloropropane	50	55.1	110	53.7	107	3	70-130/25
142-28-9	1,3-Dichloropropane	50	53.0	106	53.2	106	0	70-130/25
594-20-7	2,2-Dichloropropane	50	45.9	92	43.9	88	4	70-130/25
563-58-6	1,1-Dichloropropene	50	51.8	104	49.4	99	5	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-BS	V17640.D	1	04/18/13	AMY	n/a	n/a	MSV699
MSV699-BSD	V17641.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: Method: SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	52.2	104	51.6	103	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	48.9	98	48.0	96	2	70-130/25
123-91-1	1,4-Dioxane	250	244	98	260	104	6	70-130/25
97-63-2	Ethyl methacrylate	50	51.8	104	52.0	104	0	77-137/25
100-41-4	Ethylbenzene	50	55.6	111	53.8	108	3	70-130/25
87-68-3	Hexachlorobutadiene	50	51.3	103	51.3	103	0	70-130/25
591-78-6	2-Hexanone	50	56.1	112	55.8	112	1	70-130/25
98-82-8	Isopropylbenzene	50	54.0	108	52.4	105	3	70-130/25
99-87-6	p-Isopropyltoluene	50	59.5	119	57.3	115	4	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	50.5	101	50.4	101	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.8	102	51.0	102	0	70-130/25
74-95-3	Methylene bromide	50	55.1	110	54.8	110	1	70-130/25
75-09-2	Methylene chloride	50	56.6	113	55.3	111	2	70-130/25
91-20-3	Naphthalene	50	64.0	128	66.9	134* [a]	4	70-130/25
103-65-1	n-Propylbenzene	50	55.0	110	52.8	106	4	70-130/25
100-42-5	Styrene	50	54.8	110	53.8	108	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	56.5	113	55.1	110	3	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	59.8	120	61.5	123	3	70-130/25
127-18-4	Tetrachloroethene	50	49.7	99	47.2	94	5	70-130/25
108-88-3	Toluene	50	54.5	109	52.7	105	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	60.4	121	63.5	127	5	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	57.5	115	0	70-130/25
71-55-6	1,1,1-Trichloroethane	50	52.5	105	50.8	102	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.9	108	53.6	107	1	70-130/25
79-01-6	Trichloroethene	50	51.7	103	48.7	97	6	70-130/25
75-69-4	Trichlorofluoromethane	50	56.9	114	54.4	109	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	56.5	113	56.9	114	1	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	56.9	114	55.2	110	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	56.3	113	54.0	108	4	70-130/25
108-05-4	Vinyl Acetate	50	52.1	104	54.3	109	4	70-130/25
75-01-4	Vinyl chloride	50	51.6	103	50.2	100	3	70-130/25
	m,p-Xylene	100	108	108	105	105	3	70-130/25
95-47-6	o-Xylene	50	52.1	104	51.1	102	2	70-130/25
1330-20-7	Xylene (total)	150	161	107	156	104	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV699-BS	V17640.D	1	04/18/13	AMY	n/a	n/a	MSV699
MSV699-BSD	V17641.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	109%	70-130%
2037-26-5	Toluene-D8	105%	105%	70-130%
460-00-4	4-Bromofluorobenzene	95%	95%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19670-4MS	V17659.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4MSD	V17660.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4	V17649.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	50.6	101	50	49.8	100	2	70-130/30
107-02-8	Acrolein	ND		250	250	100	250	251	100	0	70-130/30
107-13-1	Acrylonitrile	ND		50	65.1	130	50	67.1	134* [a]	3	70-130/30
71-43-2	Benzene	0.88		50	56.3	111	50	58.0	114	3	70-130/30
108-86-1	Bromobenzene	ND		50	56.1	112	50	57.2	114	2	70-130/30
74-97-5	Bromochloromethane	ND		50	58.3	117	50	59.8	120	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	56.0	112	50	58.0	116	4	70-130/30
75-25-2	Bromoform	ND		50	43.3	87	50	44.8	90	3	70-130/30
74-83-9	Bromomethane	ND		50	61.5	123	50	63.4	127	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	56.0	112	50	56.3	113	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	60.9	122	50	63.5	127	4	70-130/30
135-98-8	sec-Butylbenzene	ND		50	55.8	112	50	58.0	116	4	70-130/30
98-06-6	tert-Butylbenzene	ND		50	55.9	112	50	57.4	115	3	70-130/30
75-15-0	Carbon disulfide	ND		50	58.1	116	50	60.5	121	4	70-130/30
56-23-5	Carbon tetrachloride	ND		50	53.9	108	50	56.1	112	4	70-130/30
108-90-7	Chlorobenzene	ND		50	53.2	106	50	55.4	111	4	70-130/30
75-00-3	Chloroethane	ND		50	58.7	117	50	60.3	121	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	57.7	115	50	59.4	119	3	70-130/30
74-87-3	Chloromethane	ND		50	58.6	117	50	64.4	129	9	70-130/30
95-49-8	o-Chlorotoluene	ND		50	55.4	111	50	57.1	114	3	70-130/30
106-43-4	p-Chlorotoluene	ND		50	57.5	115	50	59.6	119	4	70-130/30
124-48-1	Dibromochloromethane	ND		50	47.6	95	50	49.4	99	4	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	54.9	110	50	57.0	114	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	54.4	109	50	56.4	113	4	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	56.7	113	50	58.6	117	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	40.7	81	50	42.1	84	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	60.3	121	50	62.3	125	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	57.9	116	50	58.5	117	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	59.1	118	50	61.5	123	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	56.4	113	50	58.3	117	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	57.2	114	50	59.1	118	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	56.8	114	50	58.2	116	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	55.3	111	50	56.7	113	3	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	62.5	125	50	64.4	129	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	56.1	112	50	57.8	116	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19670-4MS	V17659.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4MSD	V17660.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4	V17649.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	55.0	110	50	56.6	113	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.2	104	50	53.6	107	3	70-130/30
123-91-1	1,4-Dioxane	ND		250	269	108	250	285	114	6	70-130/30
97-63-2	Ethyl methacrylate	ND		50	55.5	111	50	56.6	113	2	72-139/30
100-41-4	Ethylbenzene	ND		50	56.7	113	50	58.9	118	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	52.2	104	50	56.4	113	8	70-130/30
591-78-6	2-Hexanone	ND		50	55.8	112	50	57.0	114	2	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.8	112	50	57.4	115	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	61.4	123	50	63.5	127	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	53.9	108	50	55.2	110	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	55.8	112	50	56.5	113	1	70-130/30
74-95-3	Methylene bromide	ND		50	57.3	115	50	58.3	117	2	70-130/30
75-09-2	Methylene chloride	ND		50	58.8	118	50	60.0	120	2	70-130/30
91-20-3	Naphthalene	ND		50	52.3	105	50	71.2	142* [a]	31* [b]	70-130/30
103-65-1	n-Propylbenzene	ND		50	56.5	113	50	58.2	116	3	70-130/30
100-42-5	Styrene	ND		50	55.8	112	50	57.8	116	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.8	114	50	58.8	118	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	66.4	133* [a]	50	67.8	136* [a]	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	51.8	104	50	53.7	107	4	70-130/30
108-88-3	Toluene	ND		50	55.7	111	50	57.3	115	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	50.0	100	50	64.8	130	26	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.5	107	50	61.7	123	14	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	55.6	111	50	58.2	116	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	56.4	113	50	57.0	114	1	70-130/30
79-01-6	Trichloroethene	ND		50	50.6	101	50	52.8	106	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	52.5	105	50	55.0	110	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	60.9	122	50	61.8	124	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	57.6	115	50	59.5	119	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	57.5	115	50	59.1	118	3	70-130/30
108-05-4	Vinyl Acetate	ND		50	62.9	126	50	63.9	128	2	70-130/30
75-01-4	Vinyl chloride	ND		50	46.9	94	50	49.6	99	6	70-130/30
	m,p-Xylene	ND		100	110	110	100	115	115	4	70-130/30
95-47-6	o-Xylene	ND		50	53.5	107	50	55.2	110	3	70-130/30
1330-20-7	Xylene (total)	ND		150	164	109	150	170	113	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19670-4MS	V17659.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4MSD	V17660.D	1	04/18/13	AMY	n/a	n/a	MSV699
MC19670-4	V17649.D	1	04/18/13	AMY	n/a	n/a	MSV699

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-6

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
1868-53-7	Dibromofluoromethane	110%	109%	106%	70-130%
2037-26-5	Toluene-D8	106%	105%	104%	70-130%
460-00-4	4-Bromofluorobenzene	95%	95%	96%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV699-CC692	**Injection Date:**	04/18/13
Lab File ID:	V17639.D	**Injection Time:**	04:53
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	484500	6.53	742213	7.72	316720	11.06	366663	13.28	58403	3.48
Upper Limit [a]	969000	7.03	1484426	8.22	633440	11.56	733326	13.78	116806	3.98
Lower Limit [b]	242250	6.03	371107	7.22	158360	10.56	183332	12.78	29202	2.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV699-BS	479531	6.53	737041	7.72	317749	11.06	362450	13.28	79888	3.49
MSV699-BSD	485535	6.53	748303	7.72	321269	11.06	365893	13.28	82823	3.48
MSV699-MB	507038	6.53	785695	7.72	336237	11.06	367961	13.28	53447	3.48
MC19670-6	486732	6.52	750419	7.71	320527	11.06	351715	13.28	73488	3.47
ZZZZZZ	466403	6.53	727407	7.71	309405	11.06	339602	13.28	73229	3.48
MC19670-2	470962	6.53	729744	7.72	310640	11.06	341756	13.28	75882	3.48
MC19670-4	450797	6.53	707006	7.72	299885	11.06	327683	13.28	73722	3.48
MC19670-1	455641	6.53	712289	7.72	305543	11.06	337096	13.28	77295	3.49
MC19670-3	465163	6.53	717764	7.72	310127	11.06	339385	13.28	81070	3.48
MC19670-5	497268	6.53	781042	7.72	333785	11.06	366835	13.28	82903	3.48
ZZZZZZ	474118	6.53	719145	7.72	312630	11.06	342891	13.28	83345	3.48
ZZZZZZ	459276	6.53	720570	7.72	307877	11.06	337557	13.28	81077	3.48
ZZZZZZ	479125	6.53	745059	7.72	327518	11.06	368024	13.28	153005[c]	3.50
ZZZZZZ	495214	6.53	763766	7.72	331187	11.06	376088	13.28	129151[c]	3.49
ZZZZZZ	503474	6.53	775533	7.72	328693	11.07	368557	13.28	89136	3.48
ZZZZZZ	488654	6.54	758135	7.72	318380	11.07	361147	13.28	88516	3.49
MC19670-4MS	498052	6.54	767205	7.72	329413	11.07	374362	13.28	94033	3.49
MC19670-4MSD	491924	6.54	758979	7.73	323934	11.07	373148	13.28	95033	3.49
ZZZZZZ	491629	6.54	757933	7.73	323247	11.07	364981	13.28	94417	3.49
ZZZZZZ	497800	6.54	774343	7.73	324663	11.07	360780	13.28	89174	3.49
ZZZZZZ	493176	6.54	752365	7.73	317654	11.07	352697	13.28	86032	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19670-1	V17650.D	106	104	95
MC19670-2	V17648.D	104	104	96
MC19670-3	V17651.D	104	105	96
MC19670-4	V17649.D	106	104	96
MC19670-5	V17652.D	106	105	96
MC19670-6	V17646.D	104	105	95
MC19670-4MS	V17659.D	110	106	95
MC19670-4MSD	V17660.D	109	105	95
MSV699-BS	V17640.D	108	105	95
MSV699-BSD	V17641.D	109	105	95
MSV699-MB	V17645.D	104	104	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-MB	W11167.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-MB	W11167.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	83%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	77%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32655-MB	I82595.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	70%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-BS	W11168.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	48.1	48	30-130
95-57-8	2-Chlorophenol	100	96.7	97	30-130
59-50-7	4-Chloro-3-methyl phenol	100	100	100	30-130
120-83-2	2,4-Dichlorophenol	100	109	109	30-130
105-67-9	2,4-Dimethylphenol	100	95.0	95	30-130
51-28-5	2,4-Dinitrophenol	100	108	108	30-130
534-52-1	4,6-Dinitro-o-cresol	100	116	116	30-130
95-48-7	2-Methylphenol	100	83.8	84	30-130
	3&4-Methylphenol	200	159	80	30-130
88-75-5	2-Nitrophenol	100	110	110	30-130
100-02-7	4-Nitrophenol	100	64.2	64	30-130
87-86-5	Pentachlorophenol	100	129	129	30-130
108-95-2	Phenol	100	42.2	42	30-130
95-95-4	2,4,5-Trichlorophenol	100	113	113	30-130
88-06-2	2,4,6-Trichlorophenol	100	119	119	30-130
62-53-3	Aniline	50	20.4	41	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.1	88	40-140
85-68-7	Butyl benzyl phthalate	50	49.1	98	40-140
100-51-6	Benzyl Alcohol	50	31.2	62	40-140
91-58-7	2-Chloronaphthalene	50	42.5	85	40-140
106-47-8	4-Chloroaniline	50	33.0	66	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	41.7	83	40-140
111-44-4	bis(2-Chloroethyl)ether	50	44.8	90	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	44.7	89	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.7	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	48.2	96	40-140
121-14-2	2,4-Dinitrotoluene	50	45.8	92	40-140
606-20-2	2,6-Dinitrotoluene	50	43.9	88	40-140
91-94-1	3,3'-Dichlorobenzidine	50	6.1	12* [a]	40-140
132-64-9	Dibenzofuran	50	42.5	85	40-140
84-74-2	Di-n-butyl phthalate	50	44.7	89	40-140
117-84-0	Di-n-octyl phthalate	50	53.8	108	40-140
84-66-2	Diethyl phthalate	50	41.6	83	40-140
131-11-3	Dimethyl phthalate	50	33.6	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	49.3	99	40-140
118-74-1	Hexachlorobenzene	50	44.4	89	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-BS	W11168.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	19.3	39* [a]	40-140
67-72-1	Hexachloroethane	50	33.5	67	40-140
78-59-1	Isophorone	50	44.6	89	40-140
88-74-4	2-Nitroaniline	50	44.7	89	40-140
99-09-2	3-Nitroaniline	50	35.0	70	40-140
100-01-6	4-Nitroaniline	50	40.2	80	40-140
98-95-3	Nitrobenzene	50	41.5	83	40-140
62-75-9	n-Nitrosodimethylamine	50	25.6	51	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.7	83	40-140
86-30-6	N-Nitrosodiphenylamine	50	46.0	92	40-140
110-86-1	Pyridine	50	19.4	39* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	51%	15-110%
4165-62-2	Phenol-d5	35%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	89%	30-130%
1718-51-0	Terphenyl-d14	106%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32655-BS	I82596.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.3	79	40-140
208-96-8	Acenaphthylene	50	31.3	63	40-140
120-12-7	Anthracene	50	41.5	83	40-140
56-55-3	Benzo(a)anthracene	50	42.7	85	40-140
50-32-8	Benzo(a)pyrene	50	37.6	75	40-140
205-99-2	Benzo(b)fluoranthene	50	40.7	81	40-140
191-24-2	Benzo(g,h,i)perylene	50	45.8	92	40-140
207-08-9	Benzo(k)fluoranthene	50	41.5	83	40-140
218-01-9	Chrysene	50	40.7	81	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.7	81	40-140
206-44-0	Fluoranthene	50	42.9	86	40-140
86-73-7	Fluorene	50	37.3	75	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.0	80	40-140
90-12-0	1-Methylnaphthalene	50	37.9	76	40-140
91-57-6	2-Methylnaphthalene	50	36.6	73	40-140
85-01-8	Phenanthrene	50	41.6	83	40-140
129-00-0	Pyrene	50	42.7	85	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	84%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-MS	W11177.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
OP32654-MSD	W11178.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
MC19670-4	W11182.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: Method: SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		104	48.7	47	104	55.2	53	13	30-130/20
95-57-8	2-Chlorophenol	ND		104	95.2	91	104	89.6	86	6	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		104	99.3	95	104	94.8	91	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		104	108	104	104	103	99	5	30-130/20
105-67-9	2,4-Dimethylphenol	ND		104	81.8	79	104	77.5	74	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		104	118	113	104	130	125	10	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		104	118	113	104	125	120	6	30-130/20
95-48-7	2-Methylphenol	ND		104	82.2	79	104	74.3	71	10	30-130/20
	3&4-Methylphenol	ND		208	154	74	208	139	67	10	30-130/20
88-75-5	2-Nitrophenol	ND		104	118	113	104	120	115	2	30-130/20
100-02-7	4-Nitrophenol	ND		104	68.2	65	104	70.0	67	3	30-130/20
87-86-5	Pentachlorophenol	ND		104	126	121	104	126	121	0	30-130/20
108-95-2	Phenol	ND		104	41.7	40	104	38.6	37	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		104	121	116	104	111	107	9	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		104	120	115	104	116	111	3	30-130/20
62-53-3	Aniline	ND		52.1	17.5	34* [a]	52.1	15.0	29* [a]	15	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		52.1	40.0	77	52.1	44.1	85	10	40-140/20
85-68-7	Butyl benzyl phthalate	ND		52.1	44.5	85	52.1	50.9	98	13	40-140/20
100-51-6	Benzyl Alcohol	ND		52.1	30.8	59	52.1	33.7	65	9	40-140/20
91-58-7	2-Chloronaphthalene	ND		52.1	42.4	81	52.1	44.3	85	4	40-140/20
106-47-8	4-Chloroaniline	ND		52.1	30.7	59	52.1	28.1	54	9	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		52.1	42.7	82	52.1	44.6	86	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		52.1	44.7	86	52.1	44.9	86	0	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		52.1	45.5	87	52.1	47.9	92	5	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		52.1	40.4	78	52.1	44.9	86	11	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		52.1	45.3	87	52.1	48.4	93	7	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		52.1	45.3	87	52.1	48.9	94	8	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		52.1	43.8	84	52.1	46.4	89	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		52.1	2.9	6* [a]	52.1	2.2	4* [a]	27* [b]	40-140/20
132-64-9	Dibenzofuran	ND		52.1	40.6	78	52.1	43.8	84	8	40-140/20
84-74-2	Di-n-butyl phthalate	ND		52.1	41.0	79	52.1	45.2	87	10	40-140/20
117-84-0	Di-n-octyl phthalate	ND		52.1	42.0	81	52.1	50.8	98	19	40-140/20
84-66-2	Diethyl phthalate	ND		52.1	43.5	84	52.1	46.5	89	7	40-140/20
131-11-3	Dimethyl phthalate	ND		52.1	42.7	82	52.1	45.5	87	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		52.1	38.9	75	52.1	47.5	91	20	40-140/20
118-74-1	Hexachlorobenzene	ND		52.1	37.2	71	52.1	42.5	82	13	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32654-MS	W11177.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
OP32654-MSD	W11178.D	1	04/15/13	KR	04/14/13	OP32654	MSW523
MC19670-4	W11182.D	1	04/15/13	KR	04/14/13	OP32654	MSW523

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		52.1	21.1	41	52.1	23.6	45	11	40-140/20
67-72-1	Hexachloroethane	ND		52.1	35.6	68	52.1	37.7	72	6	40-140/20
78-59-1	Isophorone	ND		52.1	46.1	89	52.1	48.1	92	4	40-140/20
88-74-4	2-Nitroaniline	ND		52.1	45.3	87	52.1	48.3	93	6	40-140/20
99-09-2	3-Nitroaniline	ND		52.1	35.9	69	52.1	36.6	70	2	40-140/20
100-01-6	4-Nitroaniline	ND		52.1	41.7	80	52.1	44.0	84	5	40-140/20
98-95-3	Nitrobenzene	ND		52.1	42.6	82	52.1	43.6	84	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		52.1	27.2	52	52.1	28.0	54	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		52.1	42.8	82	52.1	44.6	86	4	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		52.1	43.8	84	52.1	47.1	90	7	40-140/20
110-86-1	Pyridine	ND		52.1	19.5	37* [a]	52.1	20.8	40	6	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
367-12-4	2-Fluorophenol	44%	41%	27%	15-110%
4165-62-2	Phenol-d5	32%	29%	19%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	79%	73%	15-110%
4165-60-0	Nitrobenzene-d5	83%	87%	87%	30-130%
321-60-8	2-Fluorobiphenyl	85%	90%	86%	30-130%
1718-51-0	Terphenyl-d14	81%	98%	98%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32655-MS	I82597.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
OP32655-MSD	I82598.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071
MC19670-4	I82602.D	1	04/15/13	NS	04/14/13	OP32655	MSI3071

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		52.1	38.3	74	52.1	40.7	78	6	40-140/20
208-96-8	Acenaphthylene	ND		52.1	30.6	59	52.1	32.5	62	6	40-140/20
120-12-7	Anthracene	ND		52.1	38.2	73	52.1	42.3	81	10	40-140/20
56-55-3	Benzo(a)anthracene	ND		52.1	35.8	69	52.1	41.1	79	14	40-140/20
50-32-8	Benzo(a)pyrene	ND		52.1	30.4	58	52.1	34.5	66	13	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		52.1	32.6	63	52.1	39.2	75	18	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		52.1	37.6	72	52.1	43.7	84	15	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		52.1	36.2	70	52.1	39.9	77	10	40-140/20
218-01-9	Chrysene	ND		52.1	34.1	65	52.1	39.0	75	13	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		52.1	33.2	64	52.1	39.0	75	16	40-140/20
206-44-0	Fluoranthene	0.044	J	52.1	37.9	73	52.1	42.5	82	11	40-140/20
86-73-7	Fluorene	ND		52.1	35.3	68	52.1	38.2	73	8	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		52.1	32.9	63	52.1	38.3	74	15	40-140/20
90-12-0	1-Methylnaphthalene	ND		52.1	37.6	72	52.1	39.7	76	5	40-140/20
91-57-6	2-Methylnaphthalene	ND		52.1	36.3	70	52.1	37.9	73	4	40-140/20
85-01-8	Phenanthrene	ND		52.1	38.3	74	52.1	42.1	81	9	40-140/20
129-00-0	Pyrene	ND		52.1	37.2	71	52.1	42.2	81	13	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
4165-60-0	Nitrobenzene-d5	74%	77%	74%	30-130%
321-60-8	2-Fluorobiphenyl	68%	72%	74%	30-130%
1718-51-0	Terphenyl-d14	67%	76%	77%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3071-CC3044	**Injection Date:**	04/15/13
Lab File ID:	I82582.D	**Injection Time:**	09:21
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	219306	3.41	536567	4.37	278485	5.76	513216	7.01	390738	9.74	750313	11.12
Upper Limit [a]	438612	3.91	1073134	4.87	556970	6.26	1026432	7.51	781476	10.24	1500626	11.62
Lower Limit [b]	109653	2.91	268284	3.87	139243	5.26	256608	6.51	195369	9.24	375157	10.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32621-MB	228235	3.40	565908	4.37	286714	5.76	508707	7.00	402055	9.73	782748	11.12
OP32621-BS	226194	3.41	560956	4.37	281333	5.76	499240	7.01	381746	9.73	742997	11.13
ZZZZZZ	233763	3.40	589960	4.37	294830	5.76	511034	7.00	404231	9.73	791849	11.13
ZZZZZZ	235812	3.40	586002	4.37	295854	5.76	517666	7.00	406502	9.73	798322	11.12
ZZZZZZ	242586	3.40	604710	4.37	300191	5.76	520318	7.00	405048	9.73	814346	11.12
ZZZZZZ	243088	3.40	611708	4.37	306727	5.76	537288	7.00	422204	9.73	832467	11.12
ZZZZZZ	225499	3.40	562415	4.37	280917	5.76	495755	7.00	386253	9.73	758354	11.12
ZZZZZZ	245006	3.40	606765	4.37	305510	5.76	522112	7.00	409892	9.73	804198	11.13
ZZZZZZ	229950	3.40	575106	4.37	293290	5.76	510381	7.00	407670	9.73	798410	11.13
ZZZZZZ	227873	3.40	569273	4.37	285878	5.76	494146	7.00	386450	9.73	756896	11.12
ZZZZZZ	229133	3.40	567636	4.37	283328	5.76	490594	7.00	388463	9.73	753426	11.12
ZZZZZZ	228767	3.40	562925	4.37	281795	5.76	497552	7.00	379997	9.73	737761	11.12
OP32655-MB	172772	3.40	439804	4.37	221533	5.76	386264	7.00	305722	9.73	595477	11.12
OP32655-BS	160841	3.41	397274	4.37	202429	5.76	361950	7.01	278147	9.73	543165	11.12
OP32655-MS	170549	3.41	427358	4.37	215129	5.76	376068	7.01	291900	9.73	566194	11.12
OP32655-MSD	162292	3.41	405042	4.37	204545	5.76	362602	7.01	276161	9.73	536878	11.12
MC19670-1	157338	3.40	404222	4.37	202397	5.76	350759	7.00	280120	9.73	549042	11.12
MC19670-2	145611	3.40	361871	4.37	185700	5.76	322140	7.00	254782	9.73	498603	11.12
MC19670-3	172509	3.40	433951	4.37	217183	5.76	380982	7.00	298673	9.73	590929	11.12
MC19670-4	153215	3.40	397958	4.37	201152	5.76	350503	7.00	276790	9.73	549289	11.12
MC19670-5	150428	3.40	390355	4.37	195973	5.76	343015	7.00	272844	9.73	538598	11.12
ZZZZZZ	150049	3.40	387114	4.37	192887	5.76	337867	7.00	270713	9.73	530854	11.12
ZZZZZZ	147758	3.40	379433	4.37	190357	5.76	323813	7.00	258489	9.73	510622	11.12
ZZZZZZ	165880	3.40	422493	4.37	217206	5.76	371174	7.00	290350	9.73	569375	11.12
ZZZZZZ	152296	3.40	391316	4.37	198204	5.76	340676	7.00	275572	9.73	544561	11.12
ZZZZZZ	159794	3.40	411585	4.37	207135	5.76	354985	7.00	285179	9.73	565057	11.12

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3071-CC3044	**Injection Date:**	04/15/13
Lab File ID:	I82582.D	**Injection Time:**	09:21
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW523-CC505	**Injection Date:**	04/15/13
Lab File ID:	W11166.D	**Injection Time:**	16:15
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	118784	3.62	451007	4.60	299286	6.03	523189	7.31	645553	10.18	590307	11.75
Upper Limit [a]	237568	4.12	902014	5.10	598572	6.53	1046378	7.81	1291106	10.68	1180614	12.25
Lower Limit [b]	59392	3.12	225504	4.10	149643	5.53	261595	6.81	322777	9.68	295154	11.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32654-MB	104414	3.62	396466	4.60	259745	6.03	465757	7.31	554568	10.17	545783	11.74
OP32654-BS	92935	3.62	353214	4.60	226599	6.03	394639	7.31	472228	10.17	454373	11.74
OP32628-MB	128518	3.62	480015	4.60	314822	6.03	563583	7.31	695640	10.17	657390	11.74
OP32628-BS	123016	3.62	460480	4.60	300999	6.03	521876	7.31	633337	10.17	591745	11.74
OP32628-MS	126521	3.62	476807	4.60	316464	6.03	553361	7.31	680103	10.17	663742	11.74
OP32628-MSD	123855	3.62	466987	4.60	303362	6.03	536452	7.31	619513	10.17	591237	11.74
MC19468-1	124309	3.62	476218	4.60	308375	6.03	571274	7.31	685581	10.17	673346	11.74
ZZZZZZ	124754	3.62	475969	4.60	304483	6.03	552025	7.31	652244	10.17	637795	11.74
ZZZZZZ	129770	3.62	493309	4.60	322674	6.03	589656	7.31	705926	10.17	687456	11.74
ZZZZZZ	116846	3.62	448240	4.60	293562	6.03	528896	7.31	627716	10.16	618367	11.74
OP32654-MS	103808	3.62	392524	4.60	253353	6.03	449177	7.31	547335	10.17	527968	11.74
OP32654-MSD	96156	3.62	363535	4.60	237958	6.03	423723	7.31	508901	10.17	491412	11.74
MC19670-1	88418	3.62	340690	4.60	220466	6.03	398176	7.30	478087	10.16	473907	11.74
MC19670-2	79271	3.62	299123	4.60	196366	6.03	358479	7.30	424754	10.16	415759	11.74
MC19670-3	102662	3.62	389880	4.60	256041	6.03	463098	7.31	550701	10.16	541800	11.74
MC19670-4	86057	3.62	323569	4.60	211897	6.03	379050	7.30	448420	10.16	446787	11.74
MC19670-5	87385	3.62	339526	4.60	220138	6.03	398211	7.30	480217	10.16	473800	11.74
ZZZZZZ	94234	3.62	352891	4.60	229135	6.03	407245	7.30	486281	10.16	473514	11.74
ZZZZZZ	90475	3.62	343637	4.60	220406	6.03	397252	7.30	476908	10.16	463211	11.74
ZZZZZZ	96199	3.62	363273	4.60	236174	6.03	427052	7.30	512710	10.16	506618	11.74
ZZZZZZ	91959	3.62	344653	4.60	225022	6.03	405879	7.30	477485	10.16	471609	11.74
ZZZZZZ	95983	3.62	363142	4.60	235048	6.03	429878	7.30	508721	10.16	491549	11.74
ZZZZZZ	130161	3.62	491136	4.60	333612	6.03	625068	7.31	734583	10.17	694342	11.74
ZZZZZZ	139686	3.62	522856	4.60	349616	6.03	625895	7.31	699115	10.17	658953	11.74
ZZZZZZ	147726	3.62	568262	4.60	398818	6.04	698411	7.32	851608	10.19	858934	11.77
ZZZZZZ	124870	3.62	481896	4.60	315749	6.03	571435	7.31	692612	10.17	689565	11.74
MC19597-11	105207	3.62	402493	4.60	261485	6.03	470391	7.31	566141	10.17	566744	11.74

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW523-CC505	**Injection Date:**	04/15/13
Lab File ID:	W11166.D	**Injection Time:**	16:15
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19670-1	W11179.D	50	41	86	85	85	101
MC19670-2	W11180.D	48	33	81	82	81	106
MC19670-3	W11181.D	30	23	70	82	82	101
MC19670-4	W11182.D	27	19	73	87	86	98
MC19670-5	W11183.D	45	34	85	85	86	107
OP32654-BS	W11168.D	51	35	88	86	89	106
OP32654-MB	W11167.D	49	34	83	80	77	103
OP32654-MS	W11177.D	44	32	78	83	85	81
OP32654-MSD	W11178.D	41	29	79	87	90	98

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19670-1	I82599.D	75	71	80
MC19670-2	I82600.D	73	69	83
MC19670-3	I82601.D	72	71	78
MC19670-4	I82602.D	74	74	77
MC19670-5	I82603.D	74	74	85
OP32655-BS	I82596.D	77	73	84
OP32655-MB	I82595.D	70	68	80
OP32655-MS	I82597.D	74	68	67
OP32655-MSD	I82598.D	77	72	76

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MB	BK23581.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	113%	36-173%

Blank Spike Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-BS	BK23582.D	1	04/16/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.076	107	60-140
106-93-4	1,2-Dibromoethane	0.071	0.092	130	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	108%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32677-MS	BK23583.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
OP32677-MSD	BK23584.D	1	04/17/13	NK	04/15/13	OP32677	GBK829
MC19670-4	BK23585.D	1	04/17/13	NK	04/15/13	OP32677	GBK829

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19670-1, MC19670-2, MC19670-3, MC19670-4, MC19670-5, MC19670-7

CAS No.	Compound	MC19670-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0694	0.078	112	0.0688	0.080	116	3	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0694	0.086	124	0.0688	0.091	132	6	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19670-4	Limits
460-00-4	Bromofluorobenzene (S)	117%	122%	108%	36-173%
460-00-4	Bromofluorobenzene (S)	121%	125%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19670-1	BK23621.D	106	106
MC19670-2	BK23623.D	117	116
MC19670-3	BK23624.D	114	111
MC19670-4	BK23585.D	108	114
MC19670-5	BK23625.D	104	106
MC19670-7	BK23626.D	132	129
OP32677-BS	BK23582.D	108	112
OP32677-MB	BK23581.D	109	113
OP32677-MS	BK23583.D	117	121
OP32677-MSD	BK23584.D	122	125

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK829-ICC829	**Injection Date:**	04/16/13
Lab File ID:	BK23576.D	**Injection Time:**	21:25
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.44	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP32677-MB	BK23581.D	04/16/13	23:29	4.45	4.88
OP32677-BS	BK23582.D	04/16/13	23:56	4.45	4.88
OP32677-MS	BK23583.D	04/17/13	00:22	4.45	4.88
OP32677-MSD	BK23584.D	04/17/13	00:48	4.45	4.88
MC19670-4	BK23585.D	04/17/13	01:15	4.45	4.88
ZZZZZZ	BK23586.D	04/17/13	01:42	4.45	4.88
ZZZZZZ	BK23587.D	04/17/13	02:09	4.45	4.88
ZZZZZZ	BK23588.D	04/17/13	02:35	4.45	4.88
ZZZZZZ	BK23589.D	04/17/13	03:01	4.45	4.88
ZZZZZZ	BK23590.D	04/17/13	03:28	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-ICC830	**Injection Date:**	04/17/13
Lab File ID:	BK23607.D	**Injection Time:**	11:07
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23610A.D	04/17/13	12:18	4.45	4.88
ZZZZZZ	BK23617.D	04/17/13	15:53	4.45	4.88
ZZZZZZ	BK23618.D	04/17/13	16:16	4.45	4.88
ZZZZZZ	BK23619.D	04/17/13	16:39	4.45	4.88
ZZZZZZ	BK23620.D	04/17/13	17:02	4.45	4.88
MC19670-1	BK23621.D	04/17/13	17:26	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19670
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-CC830	**Injection Date:**	04/17/13
Lab File ID:	BK23622.D	**Injection Time:**	17:49
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19670-2	BK23623.D	04/17/13	18:12	4.45	4.88
MC19670-3	BK23624.D	04/17/13	18:35	4.45	4.88
MC19670-5	BK23625.D	04/17/13	18:59	4.45	4.88
MC19670-7	BK23626.D	04/17/13	19:22	4.45	4.88
OP32690-MB	BK23627.D	04/17/13	19:46	4.45	4.88
MC19800-8	BK23631.D	04/17/13	21:20	4.45	4.88
ZZZZZZ	BK23632.D	04/17/13	21:45	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC19699

Sampling Date: 04/09/13



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 147

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 25, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19699

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC19699

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19699-1	04/09/13	08:50	LRMM	04/10/13	AQ	Ground Water	MW10-ROX-040913
MC19699-2	04/09/13	09:10	LRMM	04/10/13	AQ	Equipment Blank	MW10-ROX-040913-EB
MC19699-3	04/09/13	10:00	LRMM	04/10/13	AQ	Ground Water	MW9-ROX-040913
MC19699-4	04/09/13	10:50	LRMM	04/10/13	AQ	Ground Water	MW1-ROX-040913
MC19699-5	04/09/13	00:00	LRMM	04/10/13	AQ	Trip Blank Water	TB-ROX-040913-HCL
MC19699-6	04/09/13	00:00	LRMM	04/10/13	AQ	Trip Blank Water	TB-ROX-040913-ST
MC19699-7	04/09/13	12:40	LRMM	04/10/13	AQ	Ground Water	MW2-ROX-040913
MC19699-8	04/09/13	13:25	LRMM	04/10/13	AQ	Ground Water	MW5-ROX-040913
MC19699-9	04/09/13	14:35	LRMM	04/10/13	AQ	Ground Water	MW4-ROX-040913
MC19699-10	04/09/13	14:35	LRMM	04/10/13	AQ	Ground Water	MW4-ROX-040913-DUP
MC19699-11	04/09/13	00:00	LRMM	04/10/13	AQ	Trip Blank Water	TB-ROX-040913-HCL-A
MC19699-12	04/09/13	00:00	LRMM	04/10/13	AQ	Trip Blank Water	TB-ROX-040913-ST-A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 9699

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** 0/25/20 6 9: 3:09 A

8 Samp e(s), 4 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 04/09/20 3 and were rece ved at SGS Accutest New Eng and on 04/ 0/20 3 proper y preserved, at 0 2 Deg C and ntact These Samp es rece ved a job number of MC 9699 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH200

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9699-4MS, MC 9699-4MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for Acetone, 2-Butanone (MEK), 2-Hexanone, Acro e n, D ch orod f uoromethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Acro e n, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC 9699-4MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MSH200 -BS for Acetone: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Matrix: AQ **Batch ID:** MSH2003

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Matrix: AQ **Batch ID:** MSH2005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9922- MS, MC 9922- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acetone, Acro e n, Acry on tr e, Carbon tetrach or de are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Acry on tr e are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acro e n, Acry on tr e, Carbon d su f de are outs de contro m ts Probab e cause due to matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3266

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for 2,4-D n tropheno , 4,6-D n tro-o-creso , 3,3'-D ch orobenz d ne, D methy phtha ate are outs de contro m ts
- Matr x Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, Pyr d ne, 2,4-D n tropheno , 4,6-D n tro-o-creso are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2,4-D n tropheno , 3,3'-D ch orobenz d ne, 4,6-D n tro-o-creso , An ne, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for Pheno are outs de contro m ts for samp e OP3266 -MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC 9699-3: Conf rmat on run for surrogate recover es
- OP3266 -MS/MSD/BS for 4,6-D n tro-o-creso , 2,4-D n tropheno : Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC 9699-3 for 2-F uoropheno :Outs de contro m ts due to poss b e matr x nterference Conf rmed by re-ana ys s

Matrix: AQ **Batch ID:** OP32678

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9700-23MS, MC 9700-23MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 3,3'-D ch orobenz d ne, An ne, D ethy phtha ate, D methy phtha ate, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for Buty benzy phtha ate, 3,3'-D ch orobenz d ne, An ne, D ethy phtha ate, D methy phtha ate, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 3,3'-D ch orobenz d ne, An ne, Buty benzy phtha ate, D ethy phtha ate, Hexach orocyc opentad ene, n-N trosod methy am ne, Pyr d ne, D methy phtha ate are outs de contro m ts Probab e cause due to matr x nte ference
- RPD(s) for MSD for D methy phtha ate are outs de contro m ts for samp e OP32678-MSD Probab e cause due to samp e homogene ty

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32662

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- MC 9699-3 for 2-F uoropheno : Outs de contro m ts due to poss b e matr x nte ference Conf rmed by reana ys s

Matrix: AQ **Batch ID:** OP32679

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9700-24MS, MC 9700-24MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32690

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-8MS, MC 9800-8MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) OP32690-MS have surrogates outs de contro m ts Probab e cause due to matr x nterference
- OP32690-MS for Bromof uorobenzene (S): Outs de contro m ts due to poss b e matr x nte ference

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC 9699)

Summary of Hits

Job Number: MC19699
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19699-1	MW10-ROX-040913					
Benzene		0.67	0.50	0.45	ug/l	SW846 8260B
Total TIC, Volatile		26047 J			ug/l	
Di-n-butyl phthalate		1.9 J	5.4	0.42	ug/l	SW846 8270C
Diethyl phthalate		1.8 J	5.4	0.54	ug/l	SW846 8270C
MC19699-2	MW10-ROX-040913-EB					
Di-n-butyl phthalate		2.1 J	5.4	0.42	ug/l	SW846 8270C
Diethyl phthalate		2.0 J	5.4	0.54	ug/l	SW846 8270C
MC19699-3	MW9-ROX-040913					
Di-n-butyl phthalate		1.8 J	5.2	0.40	ug/l	SW846 8270C
Diethyl phthalate		1.6 J	5.2	0.52	ug/l	SW846 8270C
MC19699-4	MW1-ROX-040913					
Benzene		0.40 J	0.50	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.2	1.0	0.41	ug/l	SW846 8260B
Di-n-butyl phthalate		1.2 J	5.3	0.41	ug/l	SW846 8270C
Diethyl phthalate		1.1 J	5.3	0.53	ug/l	SW846 8270C
MC19699-5	TB-ROX-040913-HCL					
No hits reported in this sample.						
MC19699-6	TB-ROX-040913-ST					
No hits reported in this sample.						
MC19699-7	MW2-ROX-040913					
Benzene		17.4	2.5	1.2	ug/l	SW846 8260B
n-Butylbenzene		19.1 J	25	3.0	ug/l	SW846 8260B
sec-Butylbenzene		8.5 J	25	2.8	ug/l	SW846 8260B
Ethylbenzene		910	5.0	2.5	ug/l	SW846 8260B
Isopropylbenzene		85.0	25	2.5	ug/l	SW846 8260B
p-Isopropyltoluene		10.1 J	25	2.9	ug/l	SW846 8260B
Naphthalene		57.8	25	2.5	ug/l	SW846 8260B
n-Propylbenzene		110	25	2.9	ug/l	SW846 8260B
Toluene		7.3	5.0	2.5	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		338	25	1.7	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		155	25	2.3	ug/l	SW846 8260B

Summary of Hits

Job Number: MC19699
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		1010	5.0	3.7	ug/l	SW846 8260B
o-Xylene		45.4	5.0	2.9	ug/l	SW846 8260B
Xylene (total)		1050	5.0	2.9	ug/l	SW846 8260B
2,4-Dimethylphenol		5.0 J	11	1.2	ug/l	SW846 8270C
1-Methylnaphthalene		12.0	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		25.6	0.22	0.056	ug/l	SW846 8270C BY SIM
MC19699-8	**MW5-ROX-040913**					
Benzene		1.8	0.50	0.24	ug/l	SW846 8260B
sec-Butylbenzene		1.8 J	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		6.3	5.0	0.64	ug/l	SW846 8260B
Isopropylbenzene		0.85 J	5.0	0.50	ug/l	SW846 8260B
Methyl Tert Butyl Ether		42.7	1.0	0.41	ug/l	SW846 8260B
Toluene		2.0	1.0	0.51	ug/l	SW846 8260B
m,p-Xylene		1.0	1.0	0.73	ug/l	SW846 8260B
Xylene (total)		1.4	1.0	0.58	ug/l	SW846 8260B
1-Methylnaphthalene		4.0	0.22	0.15	ug/l	SW846 8270C BY SIM
MC19699-9	**MW4-ROX-040913**					
Benzene		64200	500	240	ug/l	SW846 8260B
Methyl Tert Butyl Ether		112	2.0	0.82	ug/l	SW846 8260B
Toluene		5.7	2.0	1.0	ug/l	SW846 8260B
m,p-Xylene		5.2	2.0	1.5	ug/l	SW846 8260B
Xylene (total)		6.2	2.0	1.2	ug/l	SW846 8260B
Phenol		110	5.3	0.54	ug/l	SW846 8270C
2-Methylnaphthalene		0.082 J	0.22	0.056	ug/l	SW846 8270C BY SIM
MC19699-10	**MW4-ROX-040913-DUP**					
Benzene		72900	500	240	ug/l	SW846 8260B
Ethylbenzene		0.81 J	1.0	0.51	ug/l	SW846 8260B
Methyl Tert Butyl Ether		125	1.0	0.41	ug/l	SW846 8260B
n-Propylbenzene		4.0 J	5.0	0.58	ug/l	SW846 8260B
Toluene		7.6	1.0	0.51	ug/l	SW846 8260B
m,p-Xylene		7.3	1.0	0.73	ug/l	SW846 8260B
o-Xylene		1.1	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		8.4	1.0	0.58	ug/l	SW846 8260B
Phenol		103	5.3	0.54	ug/l	SW846 8270C
Di-n-butyl phthalate		0.62 J	5.3	0.41	ug/l	SW846 8270C
2-Methylnaphthalene		0.076 J	0.21	0.055	ug/l	SW846 8270C BY SIM

Summary of Hits

Job Number: MC19699
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

MC19699-11 **TB-ROX-040913-HCL-A**

No hits reported in this sample.

MC19699-12 **TB-ROX-040913-ST-A**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60530.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein [a]	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	0.67	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.1	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	5.54	26000	ug/l	JN
106-97-8	Butane	5.94	47	ug/l	JN
	Total TIC, Volatile		26047	ug/l	J

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13647.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.9	5.4	0.42	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	1.8	5.4	0.54	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		15-110%
4165-62-2	Phenol-d5	16%		15-110%
118-79-6	2,4,6-Tribromophenol	67%		15-110%
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82665.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.056	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913		
Lab Sample ID:	MC19699-1	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23637.D	1	04/17/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	97%		36-173%
460-00-4	Bromofluorobenzene (S)	99%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60525.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13648.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	2.1	5.4	0.42	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	2.0	5.4	0.54	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	76%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82666.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.056	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-040913-EB		
Lab Sample ID:	MC19699-2	**Date Sampled:**	04/09/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23638.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	33.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	104%		36-173%
460-00-4	Bromofluorobenzene (S)	104%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60531.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13649.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2 [a]	U13727.D	1	04/22/13	NS	04/15/13	OP32661	MSU694

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2	970 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	1.8	5.2	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	1.6	5.2	0.52	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	14% [b]	14% [b]	15-110%
4165-62-2	Phenol-d5	15%	15%	15-110%
118-79-6	2,4,6-Tribromophenol	53%	55%	15-110%
4165-60-0	Nitrobenzene-d5	72%	78%	30-130%
321-60-8	2-Fluorobiphenyl	66%	70%	30-130%
1718-51-0	Terphenyl-d14	55%	53%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82667.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	55%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-040913		
Lab Sample ID:	MC19699-3	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23639.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	32.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	100%		36-173%
460-00-4	Bromofluorobenzene (S)	100%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60532.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.40	0.50	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13650.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.2	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	1.1	5.3	0.53	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	70%		15-110%
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	48%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82668.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.055	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	46%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-040913		
Lab Sample ID:	MC19699-4	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23640.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		36-173%
460-00-4	Bromofluorobenzene (S)	98%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL		
Lab Sample ID:	MC19699-5	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60526.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL		
Lab Sample ID:	MC19699-5	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL		
Lab Sample ID:	MC19699-5	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-ST		
Lab Sample ID:	MC19699-6	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23641.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	34.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	104%		36-173%
460-00-4	Bromofluorobenzene (S)	105%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60647.D	5	04/22/13	KR	n/a	n/a	MSH2005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/l	
107-02-8	Acrolein [a]	ND	130	51	ug/l	
107-13-1	Acrylonitrile	ND	25	16	ug/l	
71-43-2	Benzene	17.4	2.5	1.2	ug/l	
108-86-1	Bromobenzene	ND	25	3.1	ug/l	
74-97-5	Bromochloromethane	ND	25	6.3	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.9	ug/l	
75-25-2	Bromoform	ND	5.0	3.9	ug/l	
74-83-9	Bromomethane	ND	10	5.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	12	ug/l	
104-51-8	n-Butylbenzene	19.1	25	3.0	ug/l	J
135-98-8	sec-Butylbenzene	8.5	25	2.8	ug/l	J
98-06-6	tert-Butylbenzene	ND	25	3.2	ug/l	
75-15-0	Carbon disulfide	ND	25	3.1	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	4.3	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.3	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	25	6.3	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	10	3.7	ug/l	
95-49-8	o-Chlorotoluene	ND	25	3.2	ug/l	
106-43-4	p-Chlorotoluene	ND	25	2.4	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.6	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	4.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	3.2	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	8.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	3.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.2	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.1	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	3.2	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	4.7	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	10	3.6	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	3.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	7.9	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	4.6	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	2.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.98	ug/l	
123-91-1	1,4-Dioxane	ND	130	74	ug/l	
97-63-2	Ethyl methacrylate	ND	25	4.1	ug/l	
100-41-4	Ethylbenzene	910	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	10	ug/l	
591-78-6	2-Hexanone	ND	25	9.8	ug/l	
98-82-8	Isopropylbenzene	85.0	25	2.5	ug/l	
99-87-6	p-Isopropyltoluene	10.1	25	2.9	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.1	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	15	ug/l	
74-95-3	Methylene bromide	ND	25	5.5	ug/l	
75-09-2	Methylene chloride	ND	10	4.2	ug/l	
91-20-3	Naphthalene	57.8	25	2.5	ug/l	
103-65-1	n-Propylbenzene	110	25	2.9	ug/l	
100-42-5	Styrene	ND	25	2.3	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	2.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.1	ug/l	
108-88-3	Toluene	7.3	5.0	2.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	6.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	6.4	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	4.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	3.9	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	1.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	4.2	ug/l	
95-63-6	1,2,4-Trimethylbenzene	338	25	1.7	ug/l	
108-67-8	1,3,5-Trimethylbenzene	155	25	2.3	ug/l	
108-05-4	Vinyl Acetate	ND	25	6.3	ug/l	
75-01-4	Vinyl chloride	ND	5.0	3.1	ug/l	
	m,p-Xylene	1010	5.0	3.7	ug/l	
95-47-6	o-Xylene	45.4	5.0	2.9	ug/l	
1330-20-7	Xylene (total)	1050	5.0	2.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13651.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	5.0	11	1.2	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	38%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82669.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	12.0	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	25.6	0.22	0.056	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-040913		
Lab Sample ID:	MC19699-7	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23642.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		36-173%
460-00-4	Bromofluorobenzene (S)	105%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60533.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	1.8	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	1.8	5.0	0.55	ug/l	J
98-06-6	tert-Butylbenzene	6.3	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.85	5.0	0.50	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	42.7	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	2.0	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	1.0	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	1.4	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13652.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.4	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82670.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.063	ug/l	
218-01-9	Chrysene	ND	0.11	0.078	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	4.0	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.056	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-040913		
Lab Sample ID:	MC19699-8	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23643.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	32.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	104%		36-173%
460-00-4	Bromofluorobenzene (S)	108%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60537.D	2	04/19/13	GK	n/a	n/a	MSH2001
Run #2	H60585.D	1000	04/20/13	AMY	n/a	n/a	MSH2003

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	6.0	ug/l	
107-02-8	Acrolein [a]	ND	50	20	ug/l	
107-13-1	Acrylonitrile	ND	10	6.5	ug/l	
71-43-2	Benzene	64200 [b]	500	240	ug/l	
108-86-1	Bromobenzene	ND	10	1.2	ug/l	
74-97-5	Bromochloromethane	ND	10	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	1.2	ug/l	
75-25-2	Bromoform	ND	2.0	1.6	ug/l	
74-83-9	Bromomethane	ND	4.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
104-51-8	n-Butylbenzene	ND	10	1.2	ug/l	
135-98-8	sec-Butylbenzene	ND	10	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.3	ug/l	
75-15-0	Carbon disulfide	ND	10	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.7	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.94	ug/l	
75-00-3	Chloroethane	ND	4.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	2.5	ug/l	
67-66-3	Chloroform	ND	2.0	0.99	ug/l	
74-87-3	Chloromethane	ND	4.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	10	1.3	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.97	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.90	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	3.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	0.82	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.3	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.0	1.4	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	3.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.8	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.39	ug/l	
123-91-1	1,4-Dioxane	ND	50	30	ug/l	
97-63-2	Ethyl methacrylate	ND	10	1.6	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.1	ug/l	
591-78-6	2-Hexanone	ND	10	3.9	ug/l	
98-82-8	Isopropylbenzene	ND	10	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	112	2.0	0.82	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	5.8	ug/l	
74-95-3	Methylene bromide	ND	10	2.2	ug/l	
75-09-2	Methylene chloride	ND	4.0	1.7	ug/l	
91-20-3	Naphthalene	ND	10	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	10	1.2	ug/l	
100-42-5	Styrene	ND	10	0.91	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	0.84	ug/l	
108-88-3	Toluene	5.7	2.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	2.6	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.57	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.7	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	0.69	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	0.93	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.3	ug/l	
	m,p-Xylene	5.2	2.0	1.5	ug/l	
95-47-6	o-Xylene	ND	2.0	1.2	ug/l	
1330-20-7	Xylene (total)	6.2	2.0	1.2	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	89%	70-130%
2037-26-5	Toluene-D8	91%	99%	70-130%
460-00-4	4-Bromofluorobenzene	108%	114%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13653.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	110	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	52%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82671.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.063	ug/l	
218-01-9	Chrysene	ND	0.11	0.078	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.035	ug/l	
86-73-7	Fluorene	ND	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	0.082	0.22	0.056	ug/l	J
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	53%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913		
Lab Sample ID:	MC19699-9	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23645.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	105%		36-173%
460-00-4	Bromofluorobenzene (S)	107%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60534.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2	H60654.D	1000	04/22/13	KR	n/a	n/a	MSH2005

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	72900 [b]	500	240	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	0.81	1.0	0.51	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	125	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	4.0	5.0	0.58	ug/l	J
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	7.6	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	7.3	1.0	0.73	ug/l	
95-47-6	o-Xylene	1.1	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	8.4	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	89%	70-130%
2037-26-5	Toluene-D8	93%	101%	70-130%
460-00-4	4-Bromofluorobenzene	112%	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11311.D	1	04/19/13	KR	04/16/13	OP32678	MSW528
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	103	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.62	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	75%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	60%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82695.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.034	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	0.076	0.21	0.055	ug/l	J
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%
1718-51-0	Terphenyl-d14	49%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-040913-DUP		
Lab Sample ID:	MC19699-10	**Date Sampled:**	04/09/13
Matrix:	AQ - Ground Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23646.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	31.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.017	0.015	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.017	0.012	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	103%		36-173%
460-00-4	Bromofluorobenzene (S)	105%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL-A		
Lab Sample ID:	MC19699-11	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60527.D	1	04/19/13	GK	n/a	n/a	MSH2001
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL-A		
Lab Sample ID:	MC19699-11	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-HCL-A		
Lab Sample ID:	MC19699-11	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-040913-ST-A		
Lab Sample ID:	MC19699-12	**Date Sampled:**	04/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/10/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23647.D	1	04/18/13	NK	04/16/13	OP32690	GBK830
Run #2							

	Initial Volume	Final Volume
Run #1	32.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	100%		36-173%
460-00-4	Bromofluorobenzene (S)	98%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

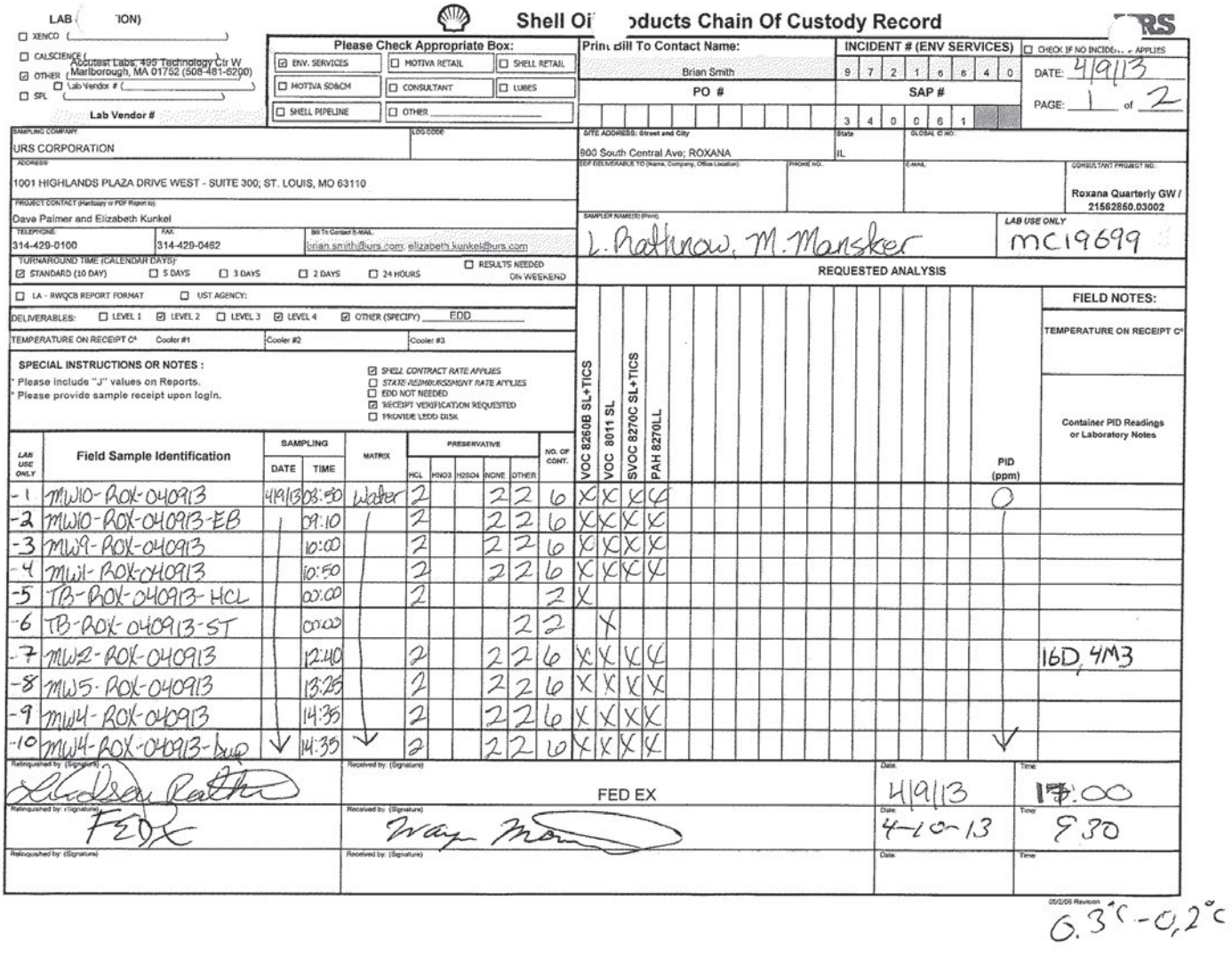
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (ION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Shell Oi[illegible]oducts Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDE[illegible] APPLIES
DATE: 4/9/13
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SAMPLER NAME(S) (Print): L. Rathnow, M. Mansker
LAB USE ONLY: MC19699
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW10-ROX-040913	4/9/13	08:50	Water	2			2	2	6	X	X	X	X	0	
-2	MW10-ROX-040913-EB	↓	09:10	↓	2			2	2	6	X	X	X	X	↓	
-3	MW9-ROX-040913	↓	10:00	↓	2			2	2	6	X	X	X	X	↓	
-4	MW1-ROX-040913	↓	10:50	↓	2			2	2	6	X	X	X	X	↓	
-5	TB-ROX-040913-HCL	↓	00:00	↓	2					2	X				↓	
-6	TB-ROX-040913-ST	↓	00:00	↓					2	2		X			↓	
-7	MW2-ROX-040913	↓	12:40	↓	2			2	2	6	X	X	X	X	↓	16D, 4M3
-8	MW5-ROX-040913	↓	13:25	↓	2			2	2	6	X	X	X	X	↓	
-9	MW4-ROX-040913	↓	14:35	↓	2			2	2	6	X	X	X	X	↓	
-10	MW4-ROX-040913-Dup	↓	14:35	↓	2			2	2	6	X	X	X	X	↓	

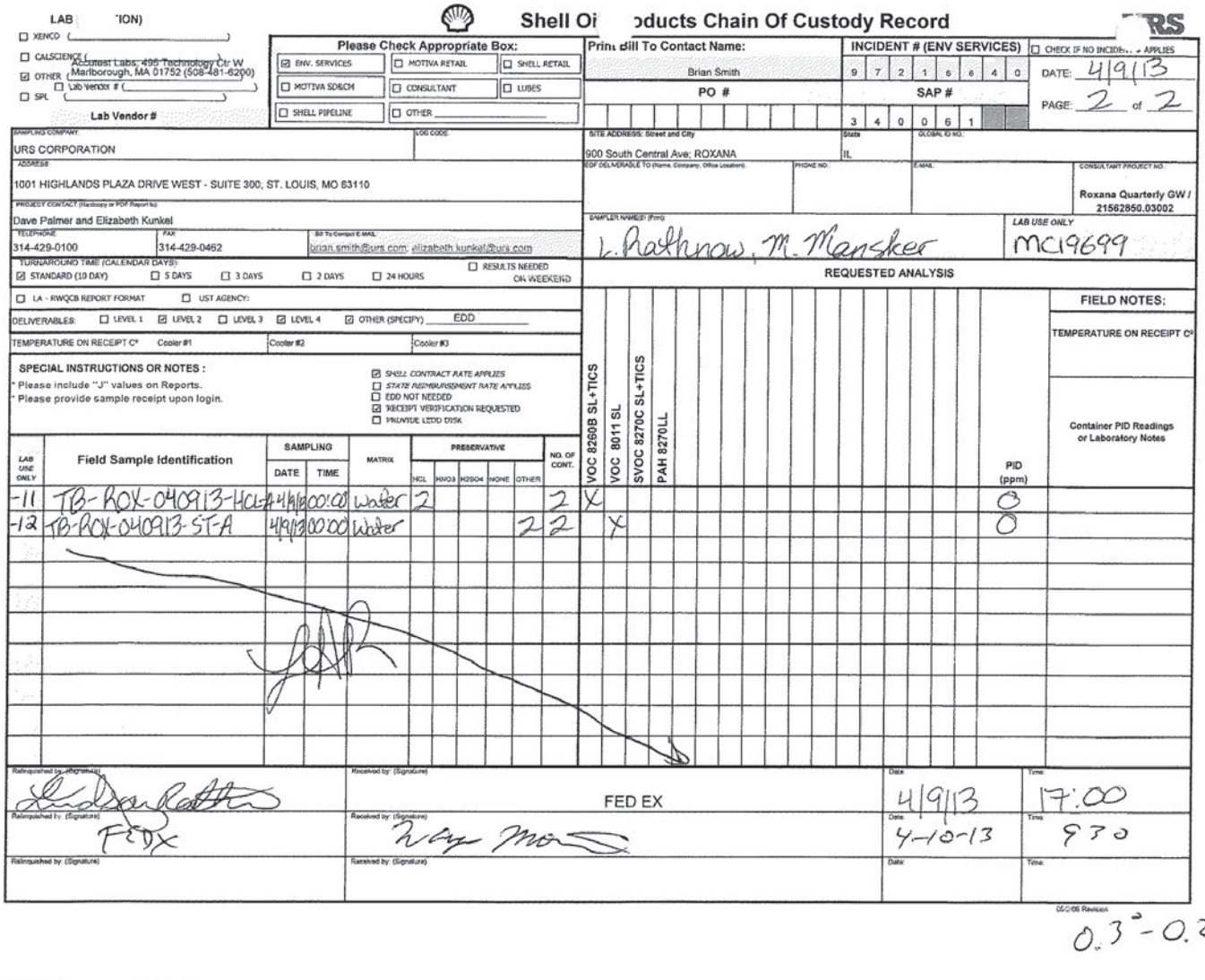
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Lindsay Rathnow	FED EX	4/9/13	17:00
FEDX	Wayne Mansker	4-10-13	9:30

05/2/06 Revision

0.3°C - 0.2°C

MC19699: Chain of Custody
Page 1 of 3

5.1 5
77 of 147
SGS ACCUTEST MC19699



LAB ... ION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER (Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # ( )
☐ SPL ( )
Lab Vendor #

Shell Oi... oducts Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4/9/13
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SAMPLER NAME(S) (Print): L. Rathnow, M. Mansker
LAB USE ONLY: MC19699

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-11	TB-ROX-040913-HCL-A	4/9/13	00:00	Water	2					2	X				0	
-12	TB-ROX-040913-ST-A	4/9/13	00:00	Water					2	2		X			0	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX	4/9/13	17:00
FEDX	[signature]	4-10-13	930

05/2/08 Revision

0.3°-0.2°C

MC19699: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19699 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/10/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL AVE **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19699

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19699-1 Collected: 09-APR-13 08:50 By: LRMM Received: 10-APR-13 By: MW10-ROX-040913						
MC19699-1	SW846 8270C	16-APR-13 17:54	NS	15-APR-13	MEW	AB8270SL+
MC19699-1	SW846 8270C BY SIM	17-APR-13 17:02	NS	15-APR-13	MEW	B8270SIMSL
MC19699-1	SW846 8011	17-APR-13 23:46	NK	16-APR-13	CC	V8011SL
MC19699-1	SW846 8260B	19-APR-13 13:31	GK			V8260SL+
MC19699-2 Collected: 09-APR-13 09:10 By: LRMM Received: 10-APR-13 By: MW10-ROX-040913-EB						
MC19699-2	SW846 8270C	16-APR-13 18:16	NS	15-APR-13	MEW	AB8270SL+
MC19699-2	SW846 8270C BY SIM	17-APR-13 17:24	NS	15-APR-13	MEW	B8270SIMSL
MC19699-2	SW846 8011	18-APR-13 00:10	NK	16-APR-13	CC	V8011SL
MC19699-2	SW846 8260B	19-APR-13 11:10	GK			V8260SL+
MC19699-3 Collected: 09-APR-13 10:00 By: LRMM Received: 10-APR-13 By: MW9-ROX-040913						
MC19699-3	SW846 8270C	16-APR-13 18:38	NS	15-APR-13	MEW	AB8270SL+
MC19699-3	SW846 8270C BY SIM	17-APR-13 17:48	NS	15-APR-13	MEW	B8270SIMSL
MC19699-3	SW846 8011	18-APR-13 00:34	NK	16-APR-13	CC	V8011SL
MC19699-3	SW846 8260B	19-APR-13 13:59	GK			V8260SL+
MC19699-3	SW846 8270C	22-APR-13 09:27	NS	15-APR-13	MEW	AB8270SL+
MC19699-4 Collected: 09-APR-13 10:50 By: LRMM Received: 10-APR-13 By: MW1-ROX-040913						
MC19699-4	SW846 8270C	16-APR-13 19:00	NS	15-APR-13	MEW	AB8270SL+
MC19699-4	SW846 8270C BY SIM	17-APR-13 18:11	NS	15-APR-13	MEW	B8270SIMSL
MC19699-4	SW846 8011	18-APR-13 00:58	NK	16-APR-13	CC	V8011SL
MC19699-4	SW846 8260B	19-APR-13 14:27	GK			V8260SL+
MC19699-5 Collected: 09-APR-13 00:00 By: LRMM Received: 10-APR-13 By: TB-ROX-040913-HCL						
MC19699-5	SW846 8260B	19-APR-13 11:37	GK			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19699

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19699-6 Collected: 09-APR-13 00:00 By: LRMM Received: 10-APR-13 By: TB-ROX-040913-ST						
MC19699-6	SW846 8011	18-APR-13 01:22	NK	16-APR-13	CC	V8011SL
MC19699-7 Collected: 09-APR-13 12:40 By: LRMM Received: 10-APR-13 By: MW2-ROX-040913						
MC19699-7	SW846 8270C	16-APR-13 19:22	NS	15-APR-13	MEW	AB8270SL+
MC19699-7	SW846 8270C BY SIM	17-APR-13 18:35	NS	15-APR-13	MEW	B8270SIMSL
MC19699-7	SW846 8011	18-APR-13 01:46	NK	16-APR-13	CC	V8011SL
MC19699-7	SW846 8260B	22-APR-13 13:00	KR			V8260SL+
MC19699-8 Collected: 09-APR-13 13:25 By: LRMM Received: 10-APR-13 By: MW5-ROX-040913						
MC19699-8	SW846 8270C	16-APR-13 19:44	NS	15-APR-13	MEW	AB8270SL+
MC19699-8	SW846 8270C BY SIM	17-APR-13 18:57	NS	15-APR-13	MEW	B8270SIMSL
MC19699-8	SW846 8011	18-APR-13 02:09	NK	16-APR-13	CC	V8011SL
MC19699-8	SW846 8260B	19-APR-13 14:55	GK			V8260SL+
MC19699-9 Collected: 09-APR-13 14:35 By: LRMM Received: 10-APR-13 By: MW4-ROX-040913						
MC19699-9	SW846 8270C	16-APR-13 20:06	NS	15-APR-13	MEW	AB8270SL+
MC19699-9	SW846 8270C BY SIM	17-APR-13 19:20	NS	15-APR-13	MEW	B8270SIMSL
MC19699-9	SW846 8011	18-APR-13 02:56	NK	16-APR-13	CC	V8011SL
MC19699-9	SW846 8260B	19-APR-13 16:48	GK			V8260SL+
MC19699-9	SW846 8260B	20-APR-13 15:46	AMY			V8260SL+
MC19699-10 Collected: 09-APR-13 14:35 By: LRMM Received: 10-APR-13 By: MW4-ROX-040913-DUP						
MC19699-10	SW846 8011	18-APR-13 03:20	NK	16-APR-13	CC	V8011SL
MC19699-10	SW846 8270C BY SIM	18-APR-13 17:49	NS	16-APR-13	MT	B8270SIMSL
MC19699-10	SW846 8270C	19-APR-13 10:29	KR	16-APR-13	MT	AB8270SL+
MC19699-10	SW846 8260B	19-APR-13 15:23	GK			V8260SL+
MC19699-10	SW846 8260B	22-APR-13 16:23	KR			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19699

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19699-11	Collected: 09-APR-13 00:00 By: LRMM Received: 10-APR-13 By: TB-ROX-040913-HCL-A					
MC19699-11	SW846 8260B	19-APR-13 12:06	GK			V8260SL+
MC19699-12	Collected: 09-APR-13 00:00 By: LRMM Received: 10-APR-13 By: TB-ROX-040913-ST-A					
MC19699-12	SW846 8011	18-APR-13 03:43	NK	16-APR-13	CC	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/10/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19699-1.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-1.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-1.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-1.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-1.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-1.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC19699-1.5	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-1.5	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-2.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-2.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-2.4	VOC Ref #4	Kerry Ryan	04/19/13 10:30	Retrieve from Storage
MC19699-2.4	Kerry Ryan	GCMSH	04/19/13 10:30	Load on Instrument
MC19699-2.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-2.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-2.4	Scott Parsick		07/24/13 13:54	Disposed
MC19699-2.6	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-2.6	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-3.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-3.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-3.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-3.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-3.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-3.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19699-3.6	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-3.6	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-4.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-4.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-4.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-4.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-4.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-4.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-4.3	Scott Parsick		07/24/13 13:54	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/10/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19699-4.4	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-4.4	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-4.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-4.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-4.4	Scott Parsick		07/24/13 13:54	Disposed
MC19699-4.6	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-4.6	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-5.2	VOC Ref #4	Kerry Ryan	04/19/13 10:30	Retrieve from Storage
MC19699-5.2	Kerry Ryan	GCMSH	04/19/13 10:30	Load on Instrument
MC19699-5.2	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-5.2	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-5.2	Scott Parsick		07/24/13 13:54	Disposed
MC19699-6.1	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-6.1	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-7.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-7.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-7.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-7.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-7.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-7.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-7.3	Scott Parsick		07/24/13 13:54	Disposed
MC19699-7.4	VOC Ref #4	Kerry Ryan	04/22/13 11:46	Retrieve from Storage
MC19699-7.4	Kerry Ryan	GCMSH	04/22/13 11:46	Load on Instrument
MC19699-7.4	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19699-7.4	Gary Krasinski	VOC Ref #4	04/23/13 09:22	Return to Storage
MC19699-7.4	Scott Parsick		07/24/13 13:54	Disposed
MC19699-7.6	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-7.6	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-8.1	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-8.1	Michael Rolo		04/16/13 07:05	Depleted
MC19699-8.4	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-8.4	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-8.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-8.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/10/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19699-8.4	Scott Parsick		07/24/13 13:54	Disposed
MC19699-8.6	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-8.6	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-9.2	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19699-9.2	Michael Rolo		04/16/13 07:05	Depleted
MC19699-9.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-9.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-9.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-9.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-9.3	Scott Parsick		07/24/13 13:54	Disposed
MC19699-9.5	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-9.5	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-10.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19699-10.2	Michael Rolo		04/17/13 07:24	Depleted
MC19699-10.3	VOC Ref #4	Kerry Ryan	04/19/13 11:16	Retrieve from Storage
MC19699-10.3	Kerry Ryan	GCMSH	04/19/13 11:31	Load on Instrument
MC19699-10.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-10.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-10.3	Scott Parsick		07/24/13 13:54	Disposed
MC19699-10.4	VOC Ref #4	Kerry Ryan	04/22/13 11:46	Retrieve from Storage
MC19699-10.4	Kerry Ryan	GCMSH	04/22/13 11:46	Load on Instrument
MC19699-10.4	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19699-10.4	Gary Krasinski	VOC Ref #4	04/23/13 09:22	Return to Storage
MC19699-10.4	Scott Parsick		07/24/13 13:54	Disposed
MC19699-10.5	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-10.5	Corey Aldoupolis		04/16/13 21:47	Depleted
MC19699-11.1	VOC Ref #4	Kerry Ryan	04/19/13 10:30	Retrieve from Storage
MC19699-11.1	Kerry Ryan	GCMSH	04/19/13 10:30	Load on Instrument
MC19699-11.1	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19699-11.1	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19699-11.1	Scott Parsick		07/24/13 13:54	Disposed
MC19699-12.1	VOC Ref #4	Corey Aldoupolis	04/16/13 18:35	Retrieve from Storage
MC19699-12.1	Corey Aldoupolis		04/16/13 21:47	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-MB	H60524.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-MB	H60524.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-MB	H60524.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	114%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-MB	H60579.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-BS	H60521.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	91.9	184* [a]	70-130
107-02-8	Acrolein	250	149	60* [b]	70-130
107-13-1	Acrylonitrile	50	37.8	76	70-130
71-43-2	Benzene	50	54.4	109	70-130
108-86-1	Bromobenzene	50	56.1	112	70-130
74-97-5	Bromochloromethane	50	50.8	102	70-130
75-27-4	Bromodichloromethane	50	58.0	116	70-130
75-25-2	Bromoform	50	58.7	117	70-130
74-83-9	Bromomethane	50	57.5	115	70-130
78-93-3	2-Butanone (MEK)	50	67.9	136* [b]	70-130
104-51-8	n-Butylbenzene	50	58.5	117	70-130
135-98-8	sec-Butylbenzene	50	56.7	113	70-130
98-06-6	tert-Butylbenzene	50	56.3	113	70-130
75-15-0	Carbon disulfide	50	51.0	102	70-130
56-23-5	Carbon tetrachloride	50	64.2	128	70-130
108-90-7	Chlorobenzene	50	53.6	107	70-130
75-00-3	Chloroethane	50	58.7	117	70-130
110-75-8	2-Chloroethyl vinyl ether	50	38.2	76	70-130
67-66-3	Chloroform	50	51.5	103	70-130
74-87-3	Chloromethane	50	62.5	125	70-130
95-49-8	o-Chlorotoluene	50	51.9	104	70-130
106-43-4	p-Chlorotoluene	50	54.6	109	70-130
124-48-1	Dibromochloromethane	50	56.6	113	70-130
95-50-1	1,2-Dichlorobenzene	50	53.7	107	70-130
541-73-1	1,3-Dichlorobenzene	50	55.0	110	70-130
106-46-7	1,4-Dichlorobenzene	50	55.1	110	70-130
75-71-8	Dichlorodifluoromethane	50	67.8	136* [b]	70-130
75-34-3	1,1-Dichloroethane	50	48.4	97	70-130
107-06-2	1,2-Dichloroethane	50	52.1	104	70-130
75-35-4	1,1-Dichloroethene	50	53.8	108	70-130
156-59-2	cis-1,2-Dichloroethene	50	48.9	98	70-130
156-60-5	trans-1,2-Dichloroethene	50	49.2	98	70-130
78-87-5	1,2-Dichloropropane	50	50.0	100	70-130
142-28-9	1,3-Dichloropropane	50	55.0	110	70-130
594-20-7	2,2-Dichloropropane	50	59.4	119	70-130
563-58-6	1,1-Dichloropropene	50	56.3	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-BS	H60521.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.4	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	50.0	100	70-130
123-91-1	1,4-Dioxane	250	240	96	70-130
97-63-2	Ethyl methacrylate	50	48.7	97	77-137
100-41-4	Ethylbenzene	50	60.2	120	70-130
87-68-3	Hexachlorobutadiene	50	59.4	119	70-130
591-78-6	2-Hexanone	50	76.2	152* b	70-130
98-82-8	Isopropylbenzene	50	56.1	112	70-130
99-87-6	p-Isopropyltoluene	50	60.9	122	70-130
1634-04-4	Methyl Tert Butyl Ether	50	50.1	100	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.8	104	70-130
74-95-3	Methylene bromide	50	54.9	110	70-130
75-09-2	Methylene chloride	50	48.9	98	70-130
91-20-3	Naphthalene	50	49.9	100	70-130
103-65-1	n-Propylbenzene	50	54.5	109	70-130
100-42-5	Styrene	50	60.2	120	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	63.6	127	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	59.0	118	70-130
127-18-4	Tetrachloroethene	50	61.1	122	70-130
108-88-3	Toluene	50	52.9	106	70-130
87-61-6	1,2,3-Trichlorobenzene	50	53.1	106	70-130
120-82-1	1,2,4-Trichlorobenzene	50	53.7	107	70-130
71-55-6	1,1,1-Trichloroethane	50	56.3	113	70-130
79-00-5	1,1,2-Trichloroethane	50	50.7	101	70-130
79-01-6	Trichloroethene	50	53.7	107	70-130
75-69-4	Trichlorofluoromethane	50	59.4	119	70-130
96-18-4	1,2,3-Trichloropropane	50	53.4	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.2	114	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.2	116	70-130
108-05-4	Vinyl Acetate	50	55.0	110	70-130
75-01-4	Vinyl chloride	50	53.6	107	70-130
	m,p-Xylene	100	121	121	70-130
95-47-6	o-Xylene	50	59.1	118	70-130
1330-20-7	Xylene (total)	150	180	120	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2001-BS	H60521.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	107%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-BS	H60577.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.9	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	107%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	79.1	158* [a]	70-130
107-02-8	Acrolein	250	119	48* [a]	70-130
107-13-1	Acrylonitrile	50	30.9	62* [a]	70-130
71-43-2	Benzene	50	50.1	100	70-130
108-86-1	Bromobenzene	50	57.6	115	70-130
74-97-5	Bromochloromethane	50	49.5	99	70-130
75-27-4	Bromodichloromethane	50	61.1	122	70-130
75-25-2	Bromoform	50	60.8	122	70-130
74-83-9	Bromomethane	50	50.9	102	70-130
78-93-3	2-Butanone (MEK)	50	56.6	113	70-130
104-51-8	n-Butylbenzene	50	58.6	117	70-130
135-98-8	sec-Butylbenzene	50	55.3	111	70-130
98-06-6	tert-Butylbenzene	50	56.7	113	70-130
75-15-0	Carbon disulfide	50	43.5	87	70-130
56-23-5	Carbon tetrachloride	50	67.0	134* [a]	70-130
108-90-7	Chlorobenzene	50	53.0	106	70-130
75-00-3	Chloroethane	50	48.1	96	70-130
110-75-8	2-Chloroethyl vinyl ether	50	33.8	68* [a]	70-130
67-66-3	Chloroform	50	50.7	101	70-130
74-87-3	Chloromethane	50	52.9	106	70-130
95-49-8	o-Chlorotoluene	50	52.4	105	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	59.5	119	70-130
95-50-1	1,2-Dichlorobenzene	50	55.7	111	70-130
541-73-1	1,3-Dichlorobenzene	50	56.4	113	70-130
106-46-7	1,4-Dichlorobenzene	50	55.0	110	70-130
75-71-8	Dichlorodifluoromethane	50	60.4	121	70-130
75-34-3	1,1-Dichloroethane	50	45.1	90	70-130
107-06-2	1,2-Dichloroethane	50	56.8	114	70-130
75-35-4	1,1-Dichloroethene	50	48.8	98	70-130
156-59-2	cis-1,2-Dichloroethene	50	46.4	93	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	70-130
78-87-5	1,2-Dichloropropane	50	46.6	93	70-130
142-28-9	1,3-Dichloropropane	50	53.1	106	70-130
594-20-7	2,2-Dichloropropane	50	60.4	121	70-130
563-58-6	1,1-Dichloropropene	50	53.7	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.7	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.0	106	70-130
123-91-1	1,4-Dioxane	250	221	88	70-130
97-63-2	Ethyl methacrylate	50	45.4	91	77-137
100-41-4	Ethylbenzene	50	58.6	117	70-130
87-68-3	Hexachlorobutadiene	50	64.4	129	70-130
591-78-6	2-Hexanone	50	64.2	128	70-130
98-82-8	Isopropylbenzene	50	55.8	112	70-130
99-87-6	p-Isopropyltoluene	50	60.8	122	70-130
1634-04-4	Methyl Tert Butyl Ether	50	47.4	95	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.5	85	70-130
74-95-3	Methylene bromide	50	55.2	110	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
91-20-3	Naphthalene	50	48.9	98	70-130
103-65-1	n-Propylbenzene	50	53.5	107	70-130
100-42-5	Styrene	50	59.2	118	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	67.3	135* [a]	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	55.0	110	70-130
127-18-4	Tetrachloroethene	50	60.2	120	70-130
108-88-3	Toluene	50	51.5	103	70-130
87-61-6	1,2,3-Trichlorobenzene	50	55.8	112	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.0	114	70-130
71-55-6	1,1,1-Trichloroethane	50	56.7	113	70-130
79-00-5	1,1,2-Trichloroethane	50	50.7	101	70-130
79-01-6	Trichloroethene	50	52.4	105	70-130
75-69-4	Trichlorofluoromethane	50	56.5	113	70-130
96-18-4	1,2,3-Trichloropropane	50	53.3	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.7	115	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.2	116	70-130
108-05-4	Vinyl Acetate	50	49.9	100	70-130
75-01-4	Vinyl chloride	50	45.1	90	70-130
	m,p-Xylene	100	117	117	70-130
95-47-6	o-Xylene	50	58.4	117	70-130
1330-20-7	Xylene (total)	150	176	117	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19699-4MS	H60535.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4MSD	H60536.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4	H60532.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	MC19699-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	222	89	250	215	86	3	70-130/30
107-02-8	Acrolein	ND		1250	541	43* a	1250	550	44* a	2	70-130/30
107-13-1	Acrylonitrile	ND		250	182	73	250	184	74	1	70-130/30
71-43-2	Benzene	0.40	J	250	294	117	250	268	107	9	70-130/30
108-86-1	Bromobenzene	ND		250	267	107	250	269	108	1	70-130/30
74-97-5	Bromochloromethane	ND		250	239	96	250	246	98	3	70-130/30
75-27-4	Bromodichloromethane	ND		250	258	103	250	262	105	2	70-130/30
75-25-2	Bromoform	ND		250	231	92	250	237	95	3	70-130/30
74-83-9	Bromomethane	ND		250	245	98	250	259	104	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	222	89	250	218	87	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	263	105	250	266	106	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	251	100	250	258	103	3	70-130/30
98-06-6	tert-Butylbenzene	ND		250	259	104	250	261	104	1	70-130/30
75-15-0	Carbon disulfide	ND		250	189	76	250	189	76	0	70-130/30
56-23-5	Carbon tetrachloride	ND		250	270	108	250	276	110	2	70-130/30
108-90-7	Chlorobenzene	ND		250	254	102	250	255	102	0	70-130/30
75-00-3	Chloroethane	ND		250	247	99	250	251	100	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	6.8	3* a	200* b	70-130/30
67-66-3	Chloroform	ND		250	240	96	250	243	97	1	70-130/30
74-87-3	Chloromethane	ND		250	261	104	250	273	109	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	244	98	250	247	99	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	256	102	250	257	103	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	240	96	250	242	97	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	254	102	250	253	101	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	255	102	250	259	104	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	257	103	250	261	104	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	290	116	250	286	114	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	223	89	250	230	92	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	252	101	250	250	100	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	245	98	250	245	98	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	230	92	250	232	93	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	229	92	250	234	94	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	230	92	250	238	95	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	266	106	250	266	106	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	254	102	250	254	102	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	250	100	250	259	104	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19699-4MS	H60535.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4MSD	H60536.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4	H60532.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Compound	MC19699-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	214	86	250	223	89	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	227	91	250	234	94	3	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1100	88	1250	1110	89	1	70-130/30
97-63-2	Ethyl methacrylate	ND		250	222	89	250	231	92	4	72-139/30
100-41-4	Ethylbenzene	ND		250	283	113	250	284	114	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	263	105	250	270	108	3	70-130/30
591-78-6	2-Hexanone	ND		250	256	102	250	258	103	1	70-130/30
98-82-8	Isopropylbenzene	ND		250	259	104	250	263	105	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	277	111	250	282	113	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	1.2		250	239	95	250	235	94	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	232	93	250	228	91	2	70-130/30
74-95-3	Methylene bromide	ND		250	255	102	250	259	104	2	70-130/30
75-09-2	Methylene chloride	ND		250	224	90	250	225	90	0	70-130/30
91-20-3	Naphthalene	ND		250	247	99	250	260	104	5	70-130/30
103-65-1	n-Propylbenzene	ND		250	253	101	250	257	103	2	70-130/30
100-42-5	Styrene	ND		250	264	106	250	274	110	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	290	116	250	289	116	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	289	116	250	290	116	0	70-130/30
127-18-4	Tetrachloroethene	ND		250	280	112	250	285	114	2	70-130/30
108-88-3	Toluene	ND		250	246	98	250	253	101	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	259	104	250	270	108	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	254	102	250	265	106	4	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	252	101	250	253	101	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	242	97	250	246	98	2	70-130/30
79-01-6	Trichloroethene	ND		250	242	97	250	249	100	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	251	100	250	250	100	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	245	98	250	248	99	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	264	106	250	268	107	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	267	107	250	270	108	1	70-130/30
108-05-4	Vinyl Acetate	ND		250	285	114	250	285	114	0	70-130/30
75-01-4	Vinyl chloride	ND		250	224	90	250	229	92	2	70-130/30
	m,p-Xylene	ND		500	571	114	500	569	114	0	70-130/30
95-47-6	o-Xylene	ND		250	276	110	250	276	110	0	70-130/30
1330-20-7	Xylene (total)	ND		750	847	113	750	845	113	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19699-4MS	H60535.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4MSD	H60536.D	5	04/19/13	GK	n/a	n/a	MSH2001
MC19699-4	H60532.D	1	04/19/13	GK	n/a	n/a	MSH2001

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-5, MC19699-8, MC19699-9, MC19699-10, MC19699-11

CAS No.	Surrogate Recoveries	MS	MSD	MC19699-4	Limits
1868-53-7	Dibromofluoromethane	94%	94%	89%	70-130%
2037-26-5	Toluene-D8	99%	101%	102%	70-130%
460-00-4	4-Bromofluorobenzene	106%	106%	113%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19724-5MS	H60589.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5MSD	H60590.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5	H60582.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-9

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	172		50	217	90	50	212	80	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
1868-53-7	Dibromofluoromethane	98%	96%	89%	70-130%
2037-26-5	Toluene-D8	99%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	107%	112%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	191	76	250	176	70	8	70-130/30
107-02-8	Acrolein	ND		1250	581	46* a	1250	531	42* a	9	70-130/30
107-13-1	Acrylonitrile	ND		250	161	64* a	250	145	58* a	10	70-130/30
71-43-2	Benzene	ND		250	249	100	250	228	91	9	70-130/30
108-86-1	Bromobenzene	ND		250	279	112	250	261	104	7	70-130/30
74-97-5	Bromochloromethane	ND		250	243	97	250	228	91	6	70-130/30
75-27-4	Bromodichloromethane	ND		250	303	121	250	270	108	12	70-130/30
75-25-2	Bromoform	ND		250	299	120	250	269	108	11	70-130/30
74-83-9	Bromomethane	ND		250	250	100	250	234	94	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	192	77	250	178	71	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	268	107	250	247	99	8	70-130/30
135-98-8	sec-Butylbenzene	ND		250	258	103	250	240	96	7	70-130/30
98-06-6	tert-Butylbenzene	ND		250	269	108	250	251	100	7	70-130/30
75-15-0	Carbon disulfide	ND		250	193	77	250	167	67* a	14	70-130/30
56-23-5	Carbon tetrachloride	ND		250	323	129	250	286	114	12	70-130/30
108-90-7	Chlorobenzene	ND		250	261	104	250	242	97	8	70-130/30
75-00-3	Chloroethane	ND		250	224	90	250	211	84	6	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	ND	0* a	nc	70-130/30
67-66-3	Chloroform	1.1		250	253	101	250	230	92	10	70-130/30
74-87-3	Chloromethane	ND		250	245	98	250	229	92	7	70-130/30
95-49-8	o-Chlorotoluene	ND		250	251	100	250	231	92	8	70-130/30
106-43-4	p-Chlorotoluene	ND		250	261	104	250	243	97	7	70-130/30
124-48-1	Dibromochloromethane	ND		250	290	116	250	268	107	8	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	266	106	250	246	98	8	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	250	100	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	270	108	250	254	102	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	278	111	250	255	102	9	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	221	88	250	199	80	10	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	283	113	250	255	102	10	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	232	93	250	210	84	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	228	91	250	209	84	9	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	221	88	250	204	82	8	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	229	92	250	208	83	10	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	265	106	250	249	100	6	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	288	115	250	266	106	8	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	257	103	250	240	96	7	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	237	95	250	211	84	12	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	260	104	250	233	93	11	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1010	81	1250	976	78	3	70-130/30
97-63-2	Ethyl methacrylate	ND		250	227	91	250	202	81	12	72-139/30
100-41-4	Ethylbenzene	ND		250	290	116	250	268	107	8	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	290	116	250	265	106	9	70-130/30
591-78-6	2-Hexanone	ND		250	219	88	250	205	82	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	266	106	250	247	99	7	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	290	116	250	270	108	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	232	93	250	209	84	10	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	206	82	250	188	75	9	70-130/30
74-95-3	Methylene bromide	ND		250	274	110	250	249	100	10	70-130/30
75-09-2	Methylene chloride	ND		250	215	86	250	200	80	7	70-130/30
91-20-3	Naphthalene	ND		250	226	90	250	213	85	6	70-130/30
103-65-1	n-Propylbenzene	ND		250	252	101	250	235	94	7	70-130/30
100-42-5	Styrene	ND		250	291	116	250	264	106	10	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	329	132* [a]	250	300	120	9	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	280	112	250	254	102	10	70-130/30
127-18-4	Tetrachloroethene	ND		250	295	118	250	274	110	7	70-130/30
108-88-3	Toluene	ND		250	256	102	250	235	94	9	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	250	100	250	237	95	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	258	103	250	239	96	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	278	111	250	250	100	11	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	255	102	250	224	90	13	70-130/30
79-01-6	Trichloroethene	ND		250	255	102	250	231	92	10	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	266	106	250	238	95	11	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	255	102	250	236	94	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	277	111	250	257	103	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	277	111	250	258	103	7	70-130/30
108-05-4	Vinyl Acetate	ND		250	255	102	250	234	94	9	70-130/30
75-01-4	Vinyl chloride	ND		250	211	84	250	198	79	6	70-130/30
	m,p-Xylene	ND		500	584	117	500	535	107	9	70-130/30
95-47-6	o-Xylene	ND		250	289	116	250	267	107	8	70-130/30
1330-20-7	Xylene (total)	ND		750	873	116	750	802	107	8	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19699-7, MC19699-10

CAS No.	Surrogate Recoveries	MS	MSD	MC19922-1	Limits
1868-53-7	Dibromofluoromethane	93%	96%	89%	70-130%
2037-26-5	Toluene-D8	102%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2001-CC1993	**Injection Date:**	04/19/13
Lab File ID:	H60520.D	**Injection Time:**	08:49
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	189067	8.70	267220	9.57	120454	12.83	152711	15.40	42419	6.28
Upper Limit [a]	378134	9.20	534440	10.07	240908	13.33	305422	15.90	84838	6.78
Lower Limit [b]	94534	8.20	133610	9.07	60227	12.33	76356	14.90	21210	5.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2001-BS	181040	8.70	257760	9.57	116349	12.83	149917	15.40	42961	6.27
MSH2001-MB	172464	8.70	232739	9.57	98596	12.83	117278	15.40	39793	6.28
MC19699-2	185029	8.70	255277	9.57	108785	12.83	125135	15.40	38439	6.28
MC19699-5	171699	8.71	236447	9.57	98283	12.83	116878	15.40	38516	6.28
MC19699-11	179867	8.71	250624	9.57	105954	12.83	123708	15.40	41778	6.28
ZZZZZZ	172034	8.71	234712	9.57	99542	12.83	118572	15.40	37292	6.29
ZZZZZZ	166011	8.70	228996	9.58	96958	12.83	114840	15.40	39493	6.29
MC19699-1	167251	8.70	230719	9.57	95319	12.83	111657	15.40	40772	6.29
MC19699-3	168841	8.70	229337	9.57	97324	12.83	116707	15.40	39568	6.28
MC19699-4	165224	8.70	227336	9.57	96922	12.83	112083	15.40	39817	6.28
MC19699-8	167951	8.70	229704	9.57	96665	12.83	121157	15.40	41420	6.27
MC19699-10	186021	8.71	293855	9.58	109708	12.83	130476	15.40	47976	6.27
MC19699-4MS	184961	8.70	263924	9.57	115562	12.83	149546	15.39	43455	6.28
MC19699-4MSD	193384	8.70	275885	9.57	122945	12.83	155543	15.40	45587	6.27
MC19699-9	209430	8.71	326559	9.57	119281	12.83	145898	15.40	51593	6.28
ZZZZZZ	202928	8.70	299314	9.57	116457	12.83	149640	15.39	54771	6.28
ZZZZZZ	202809	8.70	296537	9.57	121435	12.83	156792	15.40	54647	6.28
ZZZZZZ	197703	8.70	293083	9.57	118511	12.83	148670	15.40	51756	6.28
ZZZZZZ	190105	8.71	267664	9.57	110471	12.83	137473	15.40	46920	6.27
ZZZZZZ	183191	8.70	259162	9.57	106642	12.83	130508	15.40	43815	6.28
ZZZZZZ	185284	8.70	258446	9.57	105585	12.83	130050	15.40	39724	6.28
ZZZZZZ	180262	8.70	248477	9.57	103459	12.83	122318	15.40	37999	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2003-CC1993	**Injection Date:**	04/20/13
Lab File ID:	H60576.D	**Injection Time:**	11:38
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	206783	8.70	291185	9.57	126113	12.83	161897	15.39	44462	6.27
Upper Limit [a]	413566	9.20	582370	10.07	252226	13.33	323794	15.89	88924	6.77
Lower Limit [b]	103392	8.20	145593	9.07	63057	12.33	80949	14.89	22231	5.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2003-BS	203004	8.70	289060	9.57	126211	12.83	157390	15.39	42479	6.27
MSH2003-MB	185208	8.70	256543	9.57	106576	12.83	131041	15.40	37759	6.28
ZZZZZZ	175579	8.70	238634	9.57	98939	12.83	119034	15.40	33288	6.28
MC19724-5	170754	8.71	242923	9.57	99220	12.83	116397	15.40	33677	6.28
ZZZZZZ	166781	8.70	223337	9.57	93100	12.83	110339	15.40	32563	6.28
ZZZZZZ	160052	8.70	218085	9.57	91698	12.83	107539	15.40	32094	6.28
MC19699-9	157989	8.70	221754	9.57	90785	12.83	105387	15.40	31997	6.28
ZZZZZZ	153724	8.70	227919	9.57	89980	12.83	103593	15.40	30062	6.28
ZZZZZZ	146820	8.70	219312	9.57	86661	12.83	106900	15.40	29882	6.28
ZZZZZZ	147805	8.70	217597	9.57	83992	12.83	100017	15.40	29869	6.28
MC19724-5MS	155200	8.70	223290	9.57	99688	12.83	129664	15.40	31592	6.28
MC19724-5MSD	160947	8.70	231883	9.57	102713	12.83	131329	15.40	33485	6.27
ZZZZZZ	173898	8.70	274570	9.58	108576	12.83	145369	15.39	50776	6.27
ZZZZZZ	189758	8.70	276843	9.57	107192	12.83	124341	15.40	39096	6.28
ZZZZZZ	182820	8.70	265614	9.57	102353	12.83	121131	15.40	38433	6.28
ZZZZZZ	169881	8.70	247855	9.57	98504	12.83	118643	15.40	35469	6.29
ZZZZZZ	173367	8.70	261889	9.57	102412	12.83	119898	15.40	35840	6.28
ZZZZZZ	164653	8.70	236286	9.57	94868	12.83	113340	15.40	32071	6.27
ZZZZZZ	157482	8.70	215491	9.57	92249	12.83	108515	15.40	31989	6.28
ZZZZZZ	158349	8.70	214989	9.57	89560	12.83	105992	15.40	32530	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2005-CC1993	**Injection Date:**	04/22/13
Lab File ID:	H60638.D	**Injection Time:**	08:42
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145518	8.70	203839	9.57	92365	12.82	122447	15.39	25920	6.27
Upper Limit [a]	291036	9.20	407678	10.07	184730	13.32	244894	15.89	51840	6.77
Lower Limit [b]	72759	8.20	101920	9.07	46183	12.32	61224	14.89	12960	5.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2005-BS	153131	8.70	210431	9.57	97000	12.82	124939	15.39	29597	6.27
MSH2005-MB	141357	8.70	190495	9.57	79390	12.83	97297	15.40	27529	6.28
ZZZZZZ	145372	8.70	194657	9.57	82893	12.82	97308	15.40	28465	6.27
ZZZZZZ	136877	8.70	185060	9.57	78268	12.83	93270	15.40	25790	6.28
ZZZZZZ	140480	8.70	184085	9.57	79168	12.83	102070	15.39	26872	6.28
MC19699-7	151215	8.70	205268	9.57	84612	12.83	112538	15.39	30302	6.28
ZZZZZZ	145544	8.70	190398	9.57	82699	12.83	96284	15.40	25141	6.28
ZZZZZZ	146421	8.70	207407	9.56	83715	12.83	105266	15.39	26809	6.27
ZZZZZZ	77186	8.70	103196	9.57	43628[c]	12.82	51114[c]	15.39	13455	6.28
ZZZZZZ	137069	8.70	186849	9.57	80208	12.83	101333	15.40	28083	6.28
ZZZZZZ	139308	8.70	192444	9.57	79270	12.83	94053	15.40	26423	6.28
MC19699-10	137830	8.70	187984	9.57	78530	12.83	94049	15.40	27423	6.28
ZZZZZZ	133472	8.70	185664	9.57	77724	12.83	92782	15.40	26452	6.27
MC19922-1MS	142688	8.70	195289	9.57	89389	12.82	119300	15.39	27185	6.27
MC19922-1MSD	147065	8.70	202105	9.57	90566	12.83	118534	15.39	27790	6.27
MC19922-1	145886	8.70	197741	9.57	83263	12.83	102309	15.39	29211	6.27
ZZZZZZ	141347	8.70	190076	9.57	79817	12.83	96540	15.39	27936	6.28
ZZZZZZ	134414	8.70	178829	9.57	75395	12.83	86839	15.40	25563	6.28
ZZZZZZ	135303	8.70	177608	9.57	77080	12.83	86755	15.40	26425	6.27
ZZZZZZ	133099	8.70	178493	9.57	76610	12.83	88204	15.40	27318	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19699-1	H60530.D	89	98	112
MC19699-2	H60525.D	90	101	114
MC19699-3	H60531.D	90	101	112
MC19699-4	H60532.D	89	102	113
MC19699-5	H60526.D	91	101	111
MC19699-7	H60647.D	88	100	111
MC19699-8	H60533.D	89	99	113
MC19699-9	H60537.D	86	91	108
MC19699-9	H60585.D	89	99	114
MC19699-10	H60654.D	89	101	111
MC19699-10	H60534.D	88	93	112
MC19699-11	H60527.D	90	101	113
MC19699-4MS	H60535.D	94	99	106
MC19699-4MSD	H60536.D	94	101	106
MC19724-5MS	H60589.D	98	99	105
MC19724-5MSD	H60590.D	96	99	107
MC19922-1MS	H60656.D	93	102	105
MC19922-1MSD	H60657.D	96	99	105
MSH2001-BS	H60521.D	97	102	107
MSH2001-MB	H60524.D	89	104	114
MSH2003-BS	H60577.D	93	100	107
MSH2003-MB	H60579.D	86	102	109
MSH2005-BS	H60639.D	94	101	104
MSH2005-MB	H60642.D	89	103	113

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MB	U13643.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MB	U13643.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: Method: SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-MB	W11306.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-10

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-MB	W11306.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-10

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	30%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	65%	15-110%
4165-60-0	Nitrobenzene-d5	63%	30-130%
321-60-8	2-Fluorobiphenyl	59%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-MB	I82661.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32679-MB	I82690.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	27%	15-110%
4165-62-2	Phenol-d5	21%	15-110%
118-79-6	2,4,6-Tribromophenol	57%	15-110%
4165-60-0	Nitrobenzene-d5	57%	30-130%
321-60-8	2-Fluorobiphenyl	52%	30-130%
1718-51-0	Terphenyl-d14	70%	30-130%

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-BS	U13644.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.6	36	30-130
95-57-8	2-Chlorophenol	100	97.4	97	30-130
59-50-7	4-Chloro-3-methyl phenol	100	111	111	30-130
120-83-2	2,4-Dichlorophenol	100	113	113	30-130
105-67-9	2,4-Dimethylphenol	100	109	109	30-130
51-28-5	2,4-Dinitrophenol	100	149	149* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	100	136	136* [a]	30-130
95-48-7	2-Methylphenol	100	85.3	85	30-130
	3&4-Methylphenol	200	170	85	30-130
88-75-5	2-Nitrophenol	100	111	111	30-130
100-02-7	4-Nitrophenol	100	41.2	41	30-130
87-86-5	Pentachlorophenol	100	106	106	30-130
108-95-2	Phenol	100	43.2	43	30-130
95-95-4	2,4,5-Trichlorophenol	100	114	114	30-130
88-06-2	2,4,6-Trichlorophenol	100	112	112	30-130
62-53-3	Aniline	50	22.6	45	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.0	88	40-140
85-68-7	Butyl benzyl phthalate	50	32.5	65	40-140
100-51-6	Benzyl Alcohol	50	38.2	76	40-140
91-58-7	2-Chloronaphthalene	100	70.6	71	40-140
106-47-8	4-Chloroaniline	50	35.5	71	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	43.3	87	40-140
111-44-4	bis(2-Chloroethyl)ether	50	68.4	137	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	46.8	94	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.6	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	42.0	84	40-140
121-14-2	2,4-Dinitrotoluene	100	85.3	85	40-140
606-20-2	2,6-Dinitrotoluene	100	78.1	78	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.7	11* [b]	40-140
132-64-9	Dibenzofuran	50	42.5	85	40-140
84-74-2	Di-n-butyl phthalate	50	39.1	78	40-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	40-140
84-66-2	Diethyl phthalate	50	41.5	83	40-140
131-11-3	Dimethyl phthalate	50	15.2	30* [b]	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	45.0	90	40-140
118-74-1	Hexachlorobenzene	100	84.4	84	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-BS	U13644.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	100	39.6	40	40-140
67-72-1	Hexachloroethane	100	57.4	57	40-140
78-59-1	Isophorone	100	83.2	83	40-140
88-74-4	2-Nitroaniline	50	44.0	88	40-140
99-09-2	3-Nitroaniline	50	35.0	70	40-140
100-01-6	4-Nitroaniline	50	40.4	81	40-140
98-95-3	Nitrobenzene	100	80.9	81	40-140
62-75-9	n-Nitrosodimethylamine	50	26.8	54	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	42.5	85	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.7	85	40-140
110-86-1	Pyridine	50	20.5	41	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	83%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-BS	W11307.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	42.7	43	30-130
95-57-8	2-Chlorophenol	100	79.3	79	30-130
59-50-7	4-Chloro-3-methyl phenol	100	91.3	91	30-130
120-83-2	2,4-Dichlorophenol	100	94.7	95	30-130
105-67-9	2,4-Dimethylphenol	100	72.7	73	30-130
51-28-5	2,4-Dinitrophenol	100	99.8	100	30-130
534-52-1	4,6-Dinitro-o-cresol	100	103	103	30-130
95-48-7	2-Methylphenol	100	73.6	74	30-130
	3&4-Methylphenol	200	134	67	30-130
88-75-5	2-Nitrophenol	100	95.8	96	30-130
100-02-7	4-Nitrophenol	100	54.6	55	30-130
87-86-5	Pentachlorophenol	100	110	110	30-130
108-95-2	Phenol	100	39.8	40	30-130
95-95-4	2,4,5-Trichlorophenol	100	103	103	30-130
88-06-2	2,4,6-Trichlorophenol	100	102	102	30-130
62-53-3	Aniline	50	18.2	36* [a]	40-140
101-55-3	4-Bromophenyl phenyl ether	50	38.9	78	40-140
85-68-7	Butyl benzyl phthalate	50	20.4	41	40-140
100-51-6	Benzyl Alcohol	50	33.7	67	40-140
91-58-7	2-Chloronaphthalene	50	35.8	72	40-140
106-47-8	4-Chloroaniline	50	30.7	61	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	36.9	74	40-140
111-44-4	bis(2-Chloroethyl)ether	50	38.2	76	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	38.0	76	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	37.9	76	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.3	83	40-140
121-14-2	2,4-Dinitrotoluene	50	42.4	85	40-140
606-20-2	2,6-Dinitrotoluene	50	40.8	82	40-140
91-94-1	3,3'-Dichlorobenzidine	50	4.4	9* [a]	40-140
132-64-9	Dibenzofuran	50	37.1	74	40-140
84-74-2	Di-n-butyl phthalate	50	30.6	61	40-140
117-84-0	Di-n-octyl phthalate	50	47.8	96	40-140
84-66-2	Diethyl phthalate	50	19.7	39* [a]	40-140
131-11-3	Dimethyl phthalate	50	3.8	8* [a]	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.6	89	40-140
118-74-1	Hexachlorobenzene	50	39.6	79	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-BS	W11307.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	12.8	26* [a]	40-140
67-72-1	Hexachloroethane	50	24.5	49	40-140
78-59-1	Isophorone	50	40.8	82	40-140
88-74-4	2-Nitroaniline	50	41.9	84	40-140
99-09-2	3-Nitroaniline	50	33.8	68	40-140
100-01-6	4-Nitroaniline	50	35.8	72	40-140
98-95-3	Nitrobenzene	50	35.9	72	40-140
62-75-9	n-Nitrosodimethylamine	50	22.3	45	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	37.3	75	40-140
86-30-6	N-Nitrosodiphenylamine	50	41.5	83	40-140
110-86-1	Pyridine	50	18.7	37* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	80%	15-110%
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	96%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-BS	I82662.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	40.1	80	40-140
208-96-8	Acenaphthylene	50	31.9	64	40-140
120-12-7	Anthracene	50	41.7	83	40-140
56-55-3	Benzo(a)anthracene	50	43.4	87	40-140
50-32-8	Benzo(a)pyrene	50	38.4	77	40-140
205-99-2	Benzo(b)fluoranthene	50	42.2	84	40-140
191-24-2	Benzo(g,h,i)perylene	50	47.6	95	40-140
207-08-9	Benzo(k)fluoranthene	50	42.5	85	40-140
218-01-9	Chrysene	50	41.5	83	40-140
53-70-3	Dibenzo(a,h)anthracene	50	42.0	84	40-140
206-44-0	Fluoranthene	50	43.2	86	40-140
86-73-7	Fluorene	50	37.7	75	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.2	82	40-140
90-12-0	1-Methylnaphthalene	50	38.5	77	40-140
91-57-6	2-Methylnaphthalene	50	37.0	74	40-140
85-01-8	Phenanthrene	50	41.8	84	40-140
129-00-0	Pyrene	50	42.8	86	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	83%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32679-BS	I82691.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	35.4	71	40-140
208-96-8	Acenaphthylene	50	28.2	56	40-140
120-12-7	Anthracene	50	37.6	75	40-140
56-55-3	Benzo(a)anthracene	50	40.2	80	40-140
50-32-8	Benzo(a)pyrene	50	35.4	71	40-140
205-99-2	Benzo(b)fluoranthene	50	39.6	79	40-140
191-24-2	Benzo(g,h,i)perylene	50	44.5	89	40-140
207-08-9	Benzo(k)fluoranthene	50	39.3	79	40-140
218-01-9	Chrysene	50	38.9	78	40-140
53-70-3	Dibenzo(a,h)anthracene	50	39.0	78	40-140
206-44-0	Fluoranthene	50	39.6	79	40-140
86-73-7	Fluorene	50	34.4	69	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.5	77	40-140
90-12-0	1-Methylnaphthalene	50	32.3	65	40-140
91-57-6	2-Methylnaphthalene	50	31.3	63	40-140
85-01-8	Phenanthrene	50	37.9	76	40-140
129-00-0	Pyrene	50	39.6	79	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	15-110%
4165-62-2	Phenol-d5	26%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	15-110%
4165-60-0	Nitrobenzene-d5	68%	30-130%
321-60-8	2-Fluorobiphenyl	64%	30-130%
1718-51-0	Terphenyl-d14	77%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MS	U13645.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
OP32661-MSD	U13646.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
MC19724-5	U13718.D	1	04/19/13	NS	04/15/13	OP32661	MSU694

The QC reported here applies to the following samples: Method: SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		111	59.9	54	111	62.5	56	4	30-130/20
95-57-8	2-Chlorophenol	ND		111	110	99	111	105	95	5	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		111	130	117	111	126	113	3	30-130/20
120-83-2	2,4-Dichlorophenol	ND		111	128	115	111	125	113	2	30-130/20
105-67-9	2,4-Dimethylphenol	ND		111	124	112	111	113	102	9	30-130/20
51-28-5	2,4-Dinitrophenol	ND		111	173	156* a	111	170	153* a	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		111	155	140* a	111	158	142* a	2	30-130/20
95-48-7	2-Methylphenol	ND		111	110	99	111	96.9	87	13	30-130/20
	3&4-Methylphenol	ND		111	224	112	222	193	87	15	30-130/20
88-75-5	2-Nitrophenol	ND		111	125	113	111	126	113	1	30-130/20
100-02-7	4-Nitrophenol	ND		111	54.1	49	111	51.3	46	5	30-130/20
87-86-5	Pentachlorophenol	ND		111	124	112	111	111	100	11	30-130/20
108-95-2	Phenol	ND		111	63.6	57	111	49.7	45	25* b	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		111	130	117	111	134	121	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		111	129	116	111	127	114	2	30-130/20
62-53-3	Aniline	ND		55.6	22.0	40	55.6	21.2	38* c	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		55.6	45.5	82	55.6	44.5	80	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		55.6	48.0	86	55.6	46.0	83	4	40-140/20
100-51-6	Benzyl Alcohol	ND		55.6	37.3	67	55.6	34.6	62	8	40-140/20
91-58-7	2-Chloronaphthalene	ND		111	77.4	70	111	77.3	70	0	40-140/20
106-47-8	4-Chloroaniline	ND		55.6	35.4	64	55.6	35.2	63	1	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		55.6	46.8	84	55.6	44.8	81	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		55.6	76.4	138	55.6	70.4	127	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		55.6	48.6	87	55.6	46.6	84	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		55.6	45.8	82	55.6	44.7	80	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		55.6	43.9	79	55.6	45.8	82	4	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		111	92.2	83	111	92.9	84	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		111	84.5	76	111	83.4	75	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		55.6	5.5	10* c	55.6	5.5	10* c	0	40-140/20
132-64-9	Dibenzofuran	ND		55.6	45.1	81	55.6	45.3	82	0	40-140/20
84-74-2	Di-n-butyl phthalate	ND		55.6	44.3	80	55.6	46.1	83	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		55.6	46.7	84	55.6	46.2	83	1	40-140/20
84-66-2	Diethyl phthalate	ND		55.6	47.3	85	55.6	48.4	87	2	40-140/20
131-11-3	Dimethyl phthalate	ND		55.6	46.4	84	55.6	41.5	75	11	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		55.6	43.8	79	55.6	43.7	79	0	40-140/20
118-74-1	Hexachlorobenzene	ND		111	87.1	78	111	87.6	79	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MS	U13645.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
OP32661-MSD	U13646.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
MC19724-5	U13718.D	1	04/19/13	NS	04/15/13	OP32661	MSU694

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		111	47.5	43	111	40.2	36* c	17	40-140/20
67-72-1	Hexachloroethane	ND		111	65.0	59	111	60.8	55	7	40-140/20
78-59-1	Isophorone	ND		111	91.4	82	111	91.4	82	0	40-140/20
88-74-4	2-Nitroaniline	ND		55.6	48.6	87	55.6	46.4	84	5	40-140/20
99-09-2	3-Nitroaniline	ND		55.6	38.4	69	55.6	38.8	70	1	40-140/20
100-01-6	4-Nitroaniline	ND		55.6	43.2	78	55.6	41.9	75	3	40-140/20
98-95-3	Nitrobenzene	ND		111	89.7	81	111	87.3	79	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		55.6	30.2	54	55.6	27.9	50	8	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		55.6	43.9	79	55.6	43.3	78	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		55.6	43.6	78	55.6	45.3	82	4	40-140/20
110-86-1	Pyridine	ND		55.6	21.5	39* c	55.6	21.0	38* c	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
367-12-4	2-Fluorophenol	48%	45%	40%	15-110%
4165-62-2	Phenol-d5	43%	33%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	86%	80%	15-110%
4165-60-0	Nitrobenzene-d5	81%	78%	75%	30-130%
321-60-8	2-Fluorobiphenyl	78%	76%	72%	30-130%
1718-51-0	Terphenyl-d14	71%	71%	69%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-MS	W11308.D	1	04/19/13	KR	04/16/13	OP32678	MSW528
OP32678-MSD	W11309.D	1	04/19/13	KR	04/16/13	OP32678	MSW528
MC19700-23	W11310.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: Method: SW846 8270C

MC19699-10

CAS No.	Compound	MC19700-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	38.0	38	100	37.1	37	2	30-130/20
95-57-8	2-Chlorophenol	ND		100	75.3	75	100	67.9	68	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	82.8	83	100	78.7	79	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	85.6	86	100	78.4	78	9	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	67.7	68	100	61.9	62	9	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	97.2	97	100	100	100	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	101	101	100	104	104	3	30-130/20
95-48-7	2-Methylphenol	ND		100	68.3	68	100	62.9	63	8	30-130/20
	3&4-Methylphenol	ND		200	125	63	200	113	57	10	30-130/20
88-75-5	2-Nitrophenol	ND		100	88.8	89	100	80.9	81	9	30-130/20
100-02-7	4-Nitrophenol	ND		100	51.9	52	100	52.9	53	2	30-130/20
87-86-5	Pentachlorophenol	ND		100	107	107	100	110	110	3	30-130/20
108-95-2	Phenol	3.7	J	100	36.9	33	100	34.2	31	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	92.5	93	100	88.9	89	4	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	91.0	91	100	87.2	87	4	30-130/20
62-53-3	Aniline	ND		50	16.8	34* a	50	15.5	31* a	8	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	35.4	71	50	36.0	72	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	19.2	38* b	50	17.0	34* b	12	40-140/20
100-51-6	Benzyl Alcohol	ND		50	26.2	52	50	25.6	51	2	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	32.6	65	50	30.3	61	7	40-140/20
106-47-8	4-Chloroaniline	ND		50	27.5	55	50	25.7	51	7	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	33.1	66	50	30.6	61	8	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	35.8	72	50	32.8	66	9	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	35.7	71	50	32.6	65	9	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	34.1	68	50	34.0	68	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	38.2	76	50	38.6	77	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	39.4	79	50	40.1	80	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	36.8	74	50	37.1	74	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	4.8	10* a	50	4.9	10* a	2	40-140/20
132-64-9	Dibenzofuran	ND		50	33.5	67	50	32.7	65	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	29.4	59	50	28.0	56	5	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	43.3	87	50	43.2	86	0	40-140/20
84-66-2	Diethyl phthalate	ND		50	19.1	38* a	50	17.3	35* a	10	40-140/20
131-11-3	Dimethyl phthalate	ND		50	4.1	8* a	50	2.8	6* a	38* a	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	40.3	81	50	40.8	82	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	36.3	73	50	36.9	74	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32678-MS	W11308.D	1	04/19/13	KR	04/16/13	OP32678	MSW528
OP32678-MSD	W11309.D	1	04/19/13	KR	04/16/13	OP32678	MSW528
MC19700-23	W11310.D	1	04/19/13	KR	04/16/13	OP32678	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19699-10

CAS No.	Compound	MC19700-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	12.3	25* [a]	50	11.7	23* [a]	5	40-140/20
67-72-1	Hexachloroethane	ND		50	24.7	49	50	23.0	46	7	40-140/20
78-59-1	Isophorone	ND		50	36.1	72	50	34.5	69	5	40-140/20
88-74-4	2-Nitroaniline	ND		50	37.1	74	50	37.5	75	1	40-140/20
99-09-2	3-Nitroaniline	ND		50	31.9	64	50	32.8	66	3	40-140/20
100-01-6	4-Nitroaniline	ND		50	34.2	68	50	35.6	71	4	40-140/20
98-95-3	Nitrobenzene	ND		50	33.4	67	50	30.1	60	10	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	20.4	41	50	18.8	38* [b]	8	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	33.9	68	50	31.4	63	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	38.4	77	50	39.1	78	2	40-140/20
110-86-1	Pyridine	ND		50	17.0	34* [a]	50	16.8	34* [a]	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19700-23	Limits
367-12-4	2-Fluorophenol	38%	34%	37%	15-110%
4165-62-2	Phenol-d5	27%	25%	27%	15-110%
118-79-6	2,4,6-Tribromophenol	75%	75%	71%	15-110%
4165-60-0	Nitrobenzene-d5	69%	66%	80%	30-130%
321-60-8	2-Fluorobiphenyl	70%	66%	75%	30-130%
1718-51-0	Terphenyl-d14	86%	88%	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-MS	I82663.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
OP32662-MSD	I82664.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
MC19724-5	I82672.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-7, MC19699-8, MC19699-9

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		55.6	42.1	76	55.6	42.4	76	1	40-140/20
208-96-8	Acenaphthylene	ND		55.6	33.7	61	55.6	33.8	61	0	40-140/20
120-12-7	Anthracene	ND		55.6	43.9	79	55.6	43.9	79	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		55.6	43.1	78	55.6	41.0	74	5	40-140/20
50-32-8	Benzo(a)pyrene	ND		55.6	37.8	68	55.6	36.2	65	4	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		55.6	39.7	71	55.6	37.9	68	5	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		55.6	47.0	85	55.6	45.0	81	4	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		55.6	44.1	79	55.6	42.7	77	3	40-140/20
218-01-9	Chrysene	ND		55.6	41.1	74	55.6	39.3	71	4	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		55.6	41.6	75	55.6	40.1	72	4	40-140/20
206-44-0	Fluoranthene	ND		55.6	44.4	80	55.6	43.5	78	2	40-140/20
86-73-7	Fluorene	ND		55.6	39.8	72	55.6	40.3	73	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		55.6	41.0	74	55.6	39.4	71	4	40-140/20
90-12-0	1-Methylnaphthalene	ND		55.6	41.2	74	55.6	40.4	73	2	40-140/20
91-57-6	2-Methylnaphthalene	ND		55.6	40.3	73	55.6	39.0	70	3	40-140/20
85-01-8	Phenanthrene	ND		55.6	44.2	80	55.6	44.4	80	0	40-140/20
129-00-0	Pyrene	ND		55.6	43.9	79	55.6	42.8	77	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
4165-60-0	Nitrobenzene-d5	79%	75%	71%	30-130%
321-60-8	2-Fluorobiphenyl	72%	69%	70%	30-130%
1718-51-0	Terphenyl-d14	71%	69%	70%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32679-MS	I82692.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074
OP32679-MSD	I82693.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074
MC19700-24	I82694.D	1	04/18/13	NS	04/16/13	OP32679	MSI3074

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19699-10

CAS No.	Compound	MC19700-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	31.6	63	50	31.0	62	2	40-140/20
208-96-8	Acenaphthylene	ND		50	25.1	50	50	24.6	49	2	40-140/20
120-12-7	Anthracene	ND		50	35.4	71	50	35.7	71	1	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	38.2	76	50	38.0	76	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	32.7	65	50	33.0	66	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	35.3	71	50	35.4	71	0	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	41.0	82	50	41.2	82	0	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	38.3	77	50	38.4	77	0	40-140/20
218-01-9	Chrysene	ND		50	36.3	73	50	36.3	73	0	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	35.6	71	50	35.8	72	1	40-140/20
206-44-0	Fluoranthene	ND		50	37.7	75	50	37.7	75	0	40-140/20
86-73-7	Fluorene	ND		50	31.1	62	50	30.7	61	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	35.5	71	50	35.5	71	0	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	30.1	60	50	28.0	56	7	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	28.9	58	50	27.0	54	7	40-140/20
85-01-8	Phenanthrene	ND		50	35.3	71	50	36.2	72	3	40-140/20
129-00-0	Pyrene	ND		50	37.7	75	50	37.5	75	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19700-24	Limits
367-12-4	2-Fluorophenol	33%	30%	33%	15-110%
4165-62-2	Phenol-d5	23%	21%	25%	15-110%
118-79-6	2,4,6-Tribromophenol	67%	67%	62%	15-110%
4165-60-0	Nitrobenzene-d5	62%	58%	70%	30-130%
321-60-8	2-Fluorobiphenyl	58%	55%	65%	30-130%
1718-51-0	Terphenyl-d14	71%	72%	74%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3073-CC3044	**Injection Date:**	04/17/13
Lab File ID:	I82650.D	**Injection Time:**	11:14
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	161691	3.38	403297	4.35	212742	5.75	395919	6.98	312782	9.71	595569	11.10
Upper Limit [a]	323382	3.88	806594	4.85	425484	6.25	791838	7.48	625564	10.21	1191138	11.60
Lower Limit [b]	80846	2.88	201649	3.85	106371	5.25	197960	6.48	156391	9.21	297785	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	160010	3.38	400853	4.35	198393	5.74	352459	6.98	289010	9.70	563391	11.10
ZZZZZZ	161140	3.38	410909	4.35	205325	5.75	355306	6.98	289435	9.70	579053	11.10
ZZZZZZ	143875	3.38	360086	4.35	182299	5.74	313021	6.98	254154	9.70	511088	11.10
ZZZZZZ	153897	3.38	384039	4.35	190079	5.74	330733	6.98	265844	9.70	539459	11.10
ZZZZZZ	183846	3.38	462997	4.35	229299	5.75	395405	6.98	321054	9.70	625017	11.10
ZZZZZZ	180808	3.38	454862	4.35	224413	5.75	383919	6.98	310479	9.71	611222	11.10
ZZZZZZ	174676	3.38	442617	4.35	221227	5.74	374801	6.98	306217	9.70	604830	11.10
ZZZZZZ	178743	3.38	456297	4.35	225767	5.75	388827	6.98	322372	9.71	638290	11.10
ZZZZZZ	167563	3.38	422715	4.35	209636	5.75	364355	6.98	294498	9.71	594571	11.10
ZZZZZZ	169246	3.38	436104	4.35	217295	5.75	380575	6.98	305190	9.70	596562	11.10
OP32662-MB	138394	3.38	356731	4.35	181532	5.74	320617	6.98	257712	9.70	507428	11.10
OP32662-BS	134106	3.38	343680	4.35	174040	5.75	311263	6.99	241069	9.71	471892	11.10
OP32662-MS	143514	3.38	361285	4.35	184172	5.75	325840	6.99	254321	9.71	501119	11.10
OP32662-MSD	138315	3.39	352582	4.35	177424	5.75	315624	6.99	237211	9.71	468515	11.10
MC19699-1	153647	3.38	390060	4.35	196096	5.75	334665	6.98	269649	9.70	523763	11.10
MC19699-2	145657	3.38	364738	4.35	186238	5.74	319731	6.98	260071	9.71	519633	11.10
MC19699-3	139969	3.38	363956	4.35	179249	5.74	314893	6.98	254272	9.70	509762	11.10
MC19699-4	139674	3.38	360541	4.35	181023	5.74	315843	6.98	248342	9.70	497651	11.10
MC19699-7	128652	3.39	326386	4.35	169502	5.74	306694	6.98	251024	9.70	492438	11.10
MC19699-8	138100	3.38	353628	4.35	177568	5.75	313001	6.98	252231	9.70	502923	11.10
MC19699-9	132264	3.38	335882	4.35	169221	5.74	299907	6.98	244456	9.70	481518	11.10
MC19724-5	135413	3.38	354836	4.35	179686	5.74	313578	6.98	252009	9.70	487416	11.10
ZZZZZZ	124258	3.38	321569	4.35	163812	5.75	292375	6.98	237448	9.70	458461	11.10
ZZZZZZ	139500	3.38	357182	4.35	178648	5.75	312774	6.98	252452	9.70	493423	11.10
ZZZZZZ	111704	3.38	287193	4.35	145323	5.74	260957	6.98	212249	9.70	417710	11.09
ZZZZZZ	131553	3.38	333743	4.35	172494	5.75	311578	6.98	248770	9.70	488876	11.10
ZZZZZZ	130612	3.38	333835	4.35	168927	5.74	290183	6.98	235554	9.70	459422	11.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3073-CC3044	**Injection Date:**	04/17/13
Lab File ID:	I82650.D	**Injection Time:**	11:14
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3074-CC3044	**Injection Date:**	04/18/13
Lab File ID:	I82689.D	**Injection Time:**	15:28
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	195874	3.39	485949	4.35	254079	5.75	464060	6.99	374645	9.71	704818	11.10
Upper Limit [a]	391748	3.89	971898	4.85	508158	6.25	928120	7.49	749290	10.21	1409636	11.60
Lower Limit [b]	97937	2.89	242975	3.85	127040	5.25	232030	6.49	187323	9.21	352409	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32679-MB	162265	3.39	406150	4.35	208081	5.74	357167	6.98	296133	9.70	567965	11.10
OP32679-BS	150271	3.39	382569	4.35	196276	5.75	353577	6.99	281992	9.71	546299	11.10
OP32679-MS	153706	3.39	387239	4.35	199213	5.75	353527	6.99	283150	9.71	545478	11.10
OP32679-MSD	148030	3.39	372881	4.35	191790	5.75	340882	6.99	268548	9.71	522645	11.10
MC19700-24	155807	3.39	387702	4.35	199391	5.74	349032	6.98	286268	9.70	553816	11.10
MC19699-10	146233	3.39	367356	4.35	185259	5.74	324659	6.98	262834	9.70	525497	11.10
ZZZZZZ	152832	3.39	380916	4.35	194091	5.75	336205	6.98	274192	9.70	545850	11.10
ZZZZZZ	144212	3.39	363210	4.35	184694	5.74	321223	6.98	262319	9.70	511163	11.10
ZZZZZZ	153199	3.39	382182	4.35	193822	5.74	337468	6.98	271385	9.70	531383	11.10
ZZZZZZ	152332	3.39	377928	4.35	192147	5.75	338365	6.98	277229	9.71	549863	11.10
ZZZZZZ	152076	3.39	377076	4.35	188043	5.75	323409	6.98	262906	9.70	530002	11.10
ZZZZZZ	161387	3.38	400115	4.35	202665	5.74	349455	6.98	282192	9.70	547633	11.09
ZZZZZZ	151240	3.39	364383	4.35	187206	5.74	328898	6.98	267938	9.70	521195	11.09
ZZZZZZ	154926	3.39	381224	4.35	194832	5.74	338908	6.98	282979	9.70	549687	11.10
ZZZZZZ	153890	3.39	379800	4.35	193422	5.74	338044	6.98	276263	9.70	533597	11.09
ZZZZZZ	150074	3.39	377089	4.35	194187	5.74	338867	6.98	280784	9.70	539242	11.10
ZZZZZZ	155339	3.39	388596	4.35	196983	5.74	344219	6.98	278375	9.70	533716	11.09
ZZZZZZ	154274	3.39	387828	4.35	197366	5.74	343961	6.98	275255	9.70	537744	11.09
ZZZZZZ	147921	3.39	368360	4.35	185635	5.75	325798	6.98	268386	9.70	522213	11.10
ZZZZZZ	147679	3.39	366213	4.35	187212	5.74	322591	6.98	268500	9.70	520660	11.09
ZZZZZZ	157096	3.39	385977	4.35	199474	5.75	341358	6.98	280770	9.70	536468	11.10
ZZZZZZ	165116	3.39	418818	4.35	213672	5.74	370974	6.98	300540	9.70	572372	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU690-CC623	**Injection Date:**	04/16/13
Lab File ID:	U13627.D	**Injection Time:**	10:15
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	104684	2.89	383260	3.85	232726	5.24	407038	6.44	418753	9.11	362458	10.63
Upper Limit [a]	209368	3.39	766520	4.35	465452	5.74	814076	6.94	837506	9.61	724916	11.13
Lower Limit [b]	52342	2.39	191630	3.35	116363	4.74	203519	5.94	209377	8.61	181229	10.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	81914	2.88	302531	3.84	184193	5.24	308442	6.43	321294	9.10	284036	10.62
ZZZZZZ	107110	2.88	398632	3.84	245578	5.24	407771	6.43	433519	9.10	375003	10.62
ZZZZZZ	72927	2.88	275962	3.84	167226	5.24	280416	6.43	299133	9.10	268621	10.62
ZZZZZZ	84487	2.88	315393	3.84	191111	5.24	329911	6.43	360759	9.10	324313	10.62
ZZZZZZ	84661	2.88	314759	3.84	190950	5.24	327018	6.43	361834	9.10	330512	10.62
ZZZZZZ	120112	2.88	443235	3.84	272489	5.24	471707	6.43	512453	9.10	472619	10.62
OP32553-MB	112897	2.88	417387	3.84	250323	5.24	432034	6.43	481840	9.10	418662	10.62
OP32553-BS	101154	2.88	364694	3.84	219826	5.24	391319	6.43	435585	9.10	391626	10.62
OP32553-MS	99026	2.88	345569	3.84	213472	5.24	382536	6.43	421357	9.10	387666	10.62
OP32553-MSD	120103	2.88	427738	3.84	262603	5.24	469526	6.43	522907	9.10	486768	10.63
MC19626-1	119849	2.88	443143	3.84	270152	5.24	467822	6.43	503444	9.10	470852	10.62
ZZZZZZ	101513	2.88	363693	3.84	219927	5.24	384081	6.43	425006	9.10	402986	10.63
ZZZZZZ	104982	2.88	377711	3.84	232696	5.24	402385	6.43	458095	9.10	429502	10.63
ZZZZZZ	97409	2.88	353565	3.84	219103	5.24	397218	6.43	443762	9.10	402828	10.63
OP32661-MB	85496	2.88	315755	3.84	191079	5.24	336981	6.43	378197	9.10	352099	10.62
OP32661-BS	95372	2.88	340933	3.85	213920	5.24	383611	6.43	431428	9.10	404922	10.63
OP32661-MS	92781	2.88	332409	3.85	205634	5.24	371214	6.43	414716	9.10	392412	10.63
OP32661-MSD	74566	2.88	262447	3.84	165063	5.24	293092	6.43	329863	9.10	310464	10.63
MC19699-1	103185	2.88	377644	3.84	230769	5.24	414151	6.43	464790	9.10	443436	10.63
MC19699-2	82416	2.88	304440	3.84	186500	5.24	331934	6.43	363899	9.10	338521	10.62
MC19699-3	75685	2.88	279702	3.84	180251	5.24	305460	6.43	343683	9.10	320535	10.62
MC19699-4	77683	2.88	285883	3.84	179354	5.24	311130	6.43	347468	9.10	328132	10.62
MC19699-7	77906	2.88	285107	3.84	185394	5.24	327845	6.43	364471	9.10	343343	10.62
MC19699-8	100687	2.88	362876	3.84	230436	5.24	395518	6.43	461344	9.10	436247	10.63
MC19699-9	87974	2.88	316121	3.84	197925	5.24	343687	6.43	391288	9.10	366433	10.62

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU691-CC652	**Injection Date:**	04/16/13
Lab File ID:	U13627A.D	**Injection Time:**	10:15
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	104702	2.89	381426	3.85	232726	5.24	407038	6.44	418753	9.11	362458	10.63
Upper Limit [a]	209404	3.39	762852	4.35	465452	5.74	814076	6.94	837506	9.61	724916	11.13
Lower Limit [b]	52351	2.39	190713	3.35	116363	4.74	203519	5.94	209377	8.61	181229	10.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	81914	2.88	302531	3.84	184193	5.24	308442	6.43	321294	9.10	284036	10.62
ZZZZZZ	107110	2.88	398632	3.84	245578	5.24	407771	6.43	433519	9.10	375003	10.62
ZZZZZZ	72927	2.88	275962	3.84	167226	5.24	280416	6.43	299133	9.10	268621	10.62
ZZZZZZ	84487	2.88	315393	3.84	191111	5.24	329911	6.43	360759	9.10	324313	10.62
ZZZZZZ	84661	2.88	314759	3.84	190950	5.24	327018	6.43	361834	9.10	330512	10.62
ZZZZZZ	120112	2.88	443235	3.84	272489	5.24	471707	6.43	512453	9.10	472619	10.62
OP32553-MB	112897	2.88	417387	3.84	250323	5.24	432034	6.43	481840	9.10	418662	10.62
OP32553-BS	101154	2.88	364694	3.84	219826	5.24	391319	6.43	435585	9.10	391626	10.62
OP32553-MS	99026	2.88	345569	3.84	213472	5.24	382536	6.43	421357	9.10	387666	10.62
OP32553-MSD	120103	2.88	427738	3.84	262603	5.24	469526	6.43	522907	9.10	486768	10.63
MC19626-1	119849	2.88	443143	3.84	270152	5.24	467822	6.43	503444	9.10	470852	10.62
ZZZZZZ	101513	2.88	363693	3.84	219927	5.24	384081	6.43	425006	9.10	402986	10.63
ZZZZZZ	104982	2.88	377711	3.84	232696	5.24	402385	6.43	458095	9.10	429502	10.63
ZZZZZZ	97409	2.88	353565	3.84	219103	5.24	397218	6.43	443762	9.10	402828	10.63
OP32661-MB	85496	2.88	315755	3.84	191079	5.24	336981	6.43	378197	9.10	352099	10.62
OP32661-BS	95372	2.88	340933	3.85	213920	5.24	383611	6.43	431428	9.10	404922	10.63
OP32661-MS	92781	2.88	332409	3.85	205634	5.24	371214	6.43	414716	9.10	392412	10.63
OP32661-MSD	74566	2.88	262447	3.84	165063	5.24	293092	6.43	329863	9.10	310464	10.63
MC19699-1	103185	2.88	377644	3.84	230769	5.24	414151	6.43	464790	9.10	443436	10.63
MC19699-2	82416	2.88	304440	3.84	186500	5.24	331934	6.43	363899	9.10	338521	10.62
MC19699-3	75685	2.88	279702	3.84	180251	5.24	305460	6.43	343683	9.10	320535	10.62
MC19699-4	77683	2.88	285883	3.84	179354	5.24	311130	6.43	347468	9.10	328132	10.62
MC19699-7	77906	2.88	285107	3.84	185394	5.24	327845	6.43	364471	9.10	343343	10.62
MC19699-8	100687	2.88	362876	3.84	230436	5.24	395518	6.43	461344	9.10	436247	10.63
MC19699-9	87974	2.88	316121	3.84	197925	5.24	343687	6.43	391288	9.10	366433	10.62

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW528-CC505	**Injection Date:**	04/19/13
Lab File ID:	W11305.D	**Injection Time:**	08:08
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	118675	3.60	454103	4.58	306752	6.01	540627	7.29	695543	10.15	641220	11.72
Upper Limit [a]	237350	4.10	908206	5.08	613504	6.51	1081254	7.79	1391086	10.65	1282440	12.22
Lower Limit [b]	59338	3.10	227052	4.08	153376	5.51	270314	6.79	347772	9.65	320610	11.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32678-MB	101415	3.59	389149	4.58	257625	6.00	471897	7.28	568474	10.14	554717	11.71
OP32678-BS	104425	3.59	392575	4.58	261156	6.00	462576	7.28	563044	10.14	549110	11.71
OP32678-MS	104803	3.59	399200	4.58	267163	6.00	470392	7.28	572487	10.14	559168	11.72
OP32678-MSD	100054	3.59	380220	4.58	254279	6.00	451262	7.28	555686	10.14	541883	11.72
MC19700-23	102037	3.59	383484	4.58	257244	6.00	463276	7.27	568024	10.14	543704	11.72
MC19699-10	100526	3.59	386824	4.58	251128	6.00	466239	7.28	547319	10.14	535753	11.71
OP32692-MB	93072	3.59	358558	4.58	237521	6.00	439162	7.27	529447	10.14	506368	11.71
ZZZZZZ	96248	3.59	368979	4.58	246750	6.00	445318	7.27	533934	10.14	520052	11.71

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19699-1	U13647.D	22	16	67	66	65	69
MC19699-2	U13648.D	40	28	76	72	72	75
MC19699-3	U13649.D	14* [a]	15	53	72	66	55
MC19699-3	U13727.D	14* [a]	15	55	78	70	53
MC19699-4	U13650.D	28	24	70	65	61	48
MC19699-7	U13651.D	42	38	85	74	72	73
MC19699-8	U13652.D	36	28	85	75	70	75
MC19699-9	U13653.D	38	29	80	68	65	52
MC19699-10	W11311.D	36	33	75	75	67	60
OP32661-BS	U13644.D	48	33	90	86	83	86
OP32661-MB	U13643.D	42	30	84	78	78	80
OP32661-MS	U13645.D	48	43	85	81	78	71
OP32661-MSD	U13646.D	45	33	86	78	76	71
OP32678-BS	W11307.D	41	30	80	76	78	96
OP32678-MB	W11306.D	30	22	65	63	59	85
OP32678-MS	W11308.D	38	27	75	69	70	86
OP32678-MSD	W11309.D	34	25	75	66	66	88

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19699-1	I82665.D	63	63	69
MC19699-2	I82666.D	72	69	74
MC19699-3	I82667.D	69	67	55
MC19699-4	I82668.D	63	60	46
MC19699-7	I82669.D	74	69	75
MC19699-8	I82670.D	68	67	76
MC19699-9	I82671.D	68	64	53
MC19699-10	I82695.D	65	59	49
OP32662-BS	I82662.D	80	74	83
OP32662-MB	I82661.D	76	74	80
OP32662-MS	I82663.D	79	72	71
OP32662-MSD	I82664.D	75	69	69
OP32679-BS	I82691.D	68	64	77
OP32679-MB	I82690.D	57	52	70
OP32679-MS	I82692.D	62	58	71
OP32679-MSD	I82693.D	58	55	72

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32690-MB	BK23627.D	1	04/17/13	NK	04/16/13	OP32690	GBK830

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-6, MC19699-7, MC19699-8, MC19699-9, MC19699-10, MC19699-12

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	99%	36-173%
460-00-4	Bromofluorobenzene (S)	100%	36-173%

Blank Spike Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32690-BS	BK23663.D	10	04/18/13	NK	04/16/13	OP32690	GBK832

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-6, MC19699-7, MC19699-8, MC19699-9, MC19699-10, MC19699-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.73	103	60-140
106-93-4	1,2-Dibromoethane	0.071	0.88	124	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	155%	36-173%
460-00-4	Bromofluorobenzene (S)	156%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32690-MS	BK23664.D	10	04/18/13	NK	04/16/13	OP32690	GBK832
OP32690-MSD	BK23665.D	10	04/18/13	NK	04/16/13	OP32690	GBK832
MC19800-8	BK23631.D	1	04/17/13	NK	04/16/13	OP32690	GBK830

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19699-1, MC19699-2, MC19699-3, MC19699-4, MC19699-6, MC19699-7, MC19699-8, MC19699-9, MC19699-10, MC19699-12

CAS No.	Compound	MC19800-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.71	0.78	110	0.71	0.77	109	1	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.71	0.97	137	0.71	0.89	125	9	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-8	Limits
460-00-4	Bromofluorobenzene (S)	165%	146%	100%	36-173%
460-00-4	Bromofluorobenzene (S)	176% [a]	151%	99%	36-173%

(a) Outside control limits due to possible matrix interference.

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19699-1	BK23637.D	97	99
MC19699-2	BK23638.D	104	104
MC19699-3	BK23639.D	100	100
MC19699-4	BK23640.D	96	98
MC19699-6	BK23641.D	104	105
MC19699-7	BK23642.D	113	105
MC19699-8	BK23643.D	104	108
MC19699-9	BK23645.D	105	107
MC19699-10	BK23646.D	103	105
MC19699-12	BK23647.D	100	98
OP32690-BS	BK23663.D	155	156
OP32690-MB	BK23627.D	99	100
OP32690-MS	BK23664.D	165	176 [c]
OP32690-MSD	BK23665.D	146	151

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1
(c) Outside control limits due to possible matrix interference.

GC Surrogate Retention Time Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-CC830	**Injection Date:**	04/17/13
Lab File ID:	BK23622.D	**Injection Time:**	17:49
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23623.D	04/17/13	18:12	4.45	4.88
ZZZZZZ	BK23624.D	04/17/13	18:35	4.45	4.88
ZZZZZZ	BK23625.D	04/17/13	18:59	4.45	4.88
ZZZZZZ	BK23626.D	04/17/13	19:22	4.45	4.88
OP32690-MB	BK23627.D	04/17/13	19:46	4.45	4.88
MC19800-8	BK23631.D	04/17/13	21:20	4.45	4.88
ZZZZZZ	BK23632.D	04/17/13	21:45	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-CC830	**Injection Date:**	04/17/13
Lab File ID:	BK23633.D	**Injection Time:**	22:09
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23634.D	04/17/13	22:33	4.45	4.88
ZZZZZZ	BK23635.D	04/17/13	22:57	4.45	4.88
ZZZZZZ	BK23636.D	04/17/13	23:22	4.45	4.88
MC19699-1	BK23637.D	04/17/13	23:46	4.45	4.88
MC19699-2	BK23638.D	04/18/13	00:10	4.45	4.88
MC19699-3	BK23639.D	04/18/13	00:34	4.45	4.88
MC19699-4	BK23640.D	04/18/13	00:58	4.45	4.88
MC19699-6	BK23641.D	04/18/13	01:22	4.45	4.88
MC19699-7	BK23642.D	04/18/13	01:46	4.45	4.88
MC19699-8	BK23643.D	04/18/13	02:09	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK830-CC830	**Injection Date:**	04/18/13
Lab File ID:	BK23644.D	**Injection Time:**	02:33
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19699-9	BK23645.D	04/18/13	02:56	4.45	4.88
MC19699-10	BK23646.D	04/18/13	03:20	4.45	4.88
MC19699-12	BK23647.D	04/18/13	03:43	4.45	4.88
ZZZZZZ	BK23648.D	04/18/13	04:06	4.45	4.88
ZZZZZZ	BK23649.D	04/18/13	04:30	4.45	4.88
ZZZZZZ	BK23650.D	04/18/13	04:53	4.45	4.88
ZZZZZZ	BK23651.D	04/18/13	05:16	4.45	4.88
GBK830-ECC830	BK23652.D	04/18/13	05:39	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19699
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK832-CC830	**Injection Date:**	04/18/13
Lab File ID:	BK23662.D	**Injection Time:**	10:14
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP32690-BS	BK23663.D	04/18/13	10:37	4.45	4.89
OP32690-MS	BK23664.D	04/18/13	11:01	4.45	4.89
OP32690-MSD	BK23665.D	04/18/13	11:25	4.45	4.88
GBK832-ECC830	BK23666.D	04/18/13	11:49	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19724

Sampling Date: 04/10/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 118

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 25, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19724

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC19724

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19724-1	04/10/13	09:05	LRMM	04/11/13	AQ	Ground Water	ROST4PZC-ROX-041013
MC19724-2	04/10/13	11:10	LRMM	04/11/13	AQ	Ground Water	MW7-ROX-041013
MC19724-3	04/10/13	11:10	LRMM	04/11/13	AQ	Ground Water	MW7-ROX-041013-DUP
MC19724-4	04/10/13	13:30	LRMM	04/11/13	AQ	Ground Water	MW8-ROX-041013
MC19724-5	04/10/13	14:30	LRMM	04/11/13	AQ	Ground Water	P54-ROX-041013
MC19724-5D	04/10/13	14:30	LRMM	04/11/13	AQ	Water Dup/MSD	P54-ROX-041013
MC19724-5S	04/10/13	14:30	LRMM	04/11/13	AQ	Water Matrix Spike	P54-ROX-041013
MC19724-6	04/10/13	00:00	LRMM	04/11/13	AQ	Trip Blank Water	TB-ROX-041013-HCL
MC19724-7	04/10/13	00:00	LRMM	04/11/13	AQ	Trip Blank Water	TB-ROX-041013-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 9724

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** 0/25/20 6 9:30:22 A

5 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 04/ 0/20 3 and were rece ved at SGS Accutest New Eng and on 04/ /20 3 proper y preserved, at 0 9 Deg C and ntact These Samp es rece ved a job number of MC 9724 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH2003

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Carbon tetrach or de, Tetrach oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for , , ,2-Tetrach oroethane, Acro e n, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nte ference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC 9724-5MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSH2004

- MC 9724- : Conf rmat on run

Matrix: AQ **Batch ID:** MSH2005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9922- MS, MC 9922- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acetone, Acro e n, Acry on tr e, Carbon tetrach or de are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Acry on tr e are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acro e n, Acry on tr e, Carbon d su f de are outs de contro m ts Probab e cause due to matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC 9724- has nterna standard outs de contro m ts due to poss b e matr x nte ference Conf rmed by re-ana ys s

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3266

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for 2,4-D n tropheno , 4,6-D n tro-o-creso , 3,3'-D ch orobenz d ne, D methy phtha ate are outs de contro m ts
- Matr x Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, Pyr d ne, 2,4-D n tropheno , 4,6-D n tro-o-creso are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2,4-D n tropheno , 3,3'-D ch orobenz d ne, 4,6-D n tro-o-creso , An ne, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for Pheno are outs de contro m ts for samp e OP3266 -MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- OP3266 -BS/MS/MSD for 2,4-D n tropheno /4,6-D n tro-o-creso : Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Matrix: AQ **Batch ID:** OP3268

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-2MS, MC 9800-2MSD were used as the QC samp es nd cated
- Samp e(s) MC 9724- have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recove y(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,4,5-Tr ch oropheno , 2,4,6-Tr ch oropheno , 4,6-D n tro-o-creso , Pentach oropheno , 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2,4,5-Tr ch oropheno , 2-N tropheno , 3,3'-D ch orobenz d ne, 4,6-D n tro-o-creso , Hexach orocyc opentad ene, Pentach oropheno are outs de contro m ts Probab e cause due to matr x nterference
- Samp e(s) MC 9724-4 have surrogates outs de contro m ts Probab e cause due to matr x nterference
- MC 9724-4 for 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference
- OP3268 -MS/MSD/BS for 3,3'-D ch orobenz d ne/Hexach orocyc opentad ene: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32662

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Matrix: AQ **Batch ID:** OP32682

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-3MS, MC 9800-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32696

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC 9724)

Summary of Hits

Job Number: MC19724
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19724-1	ROST4PZC-ROX-041013					
Benzene		15.3	0.50	0.24	ug/l	SW846 8260B
Ethylbenzene		2.8	1.0	0.51	ug/l	SW846 8260B
Isopropylbenzene		0.61 J	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		1.1 J	5.0	0.58	ug/l	SW846 8260B
Toluene		0.60 J	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1.6 J	5.0	0.35	ug/l	SW846 8260B
Phenol		5.5 B	5.5	0.56	ug/l	SW846 8270C
Acenaphthene		0.066 J	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.018 J	0.11	0.015	ug/l	SW846 8270C BY SIM
Anthracene		0.033 J	0.11	0.019	ug/l	SW846 8270C BY SIM
Fluorene		0.069 J	0.11	0.051	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		0.62	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		0.078 J	0.22	0.057	ug/l	SW846 8270C BY SIM
Phenanthrene		0.18	0.055	0.014	ug/l	SW846 8270C BY SIM
MC19724-2	MW7-ROX-041013					
Benzene		475000	1000	480	ug/l	SW846 8260B
Phenol		147	27	2.8	ug/l	SW846 8270C
Dibenzofuran		0.83 J	2.2	0.17	ug/l	SW846 8270C
Acenaphthene		1.2	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.15	0.11	0.014	ug/l	SW846 8270C BY SIM
Anthracene		0.089 J	0.11	0.019	ug/l	SW846 8270C BY SIM
Fluoranthene		0.039 J	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		0.81	0.11	0.050	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		27.1	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		35.1	0.22	0.056	ug/l	SW846 8270C BY SIM
Phenanthrene		1.4	0.054	0.014	ug/l	SW846 8270C BY SIM
Pyrene		0.15	0.11	0.039	ug/l	SW846 8270C BY SIM
MC19724-3	MW7-ROX-041013-DUP					
Benzene		499000	1000	480	ug/l	SW846 8260B
Phenol		148	27	2.7	ug/l	SW846 8270C
Dibenzofuran		0.88 J	2.1	0.17	ug/l	SW846 8270C
Acenaphthene		1.2	0.11	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.16	0.11	0.014	ug/l	SW846 8270C BY SIM
Anthracene		0.11	0.11	0.019	ug/l	SW846 8270C BY SIM
Fluoranthene		0.068 J	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		0.87	0.11	0.049	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		27.4	0.21	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		35.7	0.21	0.055	ug/l	SW846 8270C BY SIM
Phenanthrene		1.5	0.053	0.013	ug/l	SW846 8270C BY SIM

Summary of Hits

Job Number: MC19724
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/10/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		0.16	0.11	0.038	ug/l	SW846 8270C BY SIM
MC19724-4	**MW8-ROX-041013**					
Benzene		969000	2500	1200	ug/l	SW846 8260B
2,4-Dimethylphenol		35.8	11	1.2	ug/l	SW846 8270C
2-Methylphenol		38.8	11	1.4	ug/l	SW846 8270C
3&4-Methylphenol		84.0	11	2.2	ug/l	SW846 8270C
Phenol		253	27	2.7	ug/l	SW846 8270C
Di-n-butyl phthalate		1.3 J	5.3	0.41	ug/l	SW846 8270C
bis(2-Ethylhexyl)phthalate		2.3	2.1	0.52	ug/l	SW846 8270C
Acenaphthene		0.18	0.11	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.059 J	0.11	0.014	ug/l	SW846 8270C BY SIM
Anthracene		0.072 J	0.11	0.019	ug/l	SW846 8270C BY SIM
Fluoranthene		0.056 J	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		0.32	0.11	0.049	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		9.1	0.21	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		11.3	0.21	0.055	ug/l	SW846 8270C BY SIM
Phenanthrene		0.19	0.053	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.042 J	0.11	0.038	ug/l	SW846 8270C BY SIM
MC19724-5	**P54-ROX-041013**					
Benzene		172	0.50	0.24	ug/l	SW846 8260B
MC19724-6	**TB-ROX-041013-HCL**					
No hits reported in this sample.						
MC19724-7	**TB-ROX-041013-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60651.D	1	04/22/13	KR	n/a	n/a	MSH2005
Run #2 [a]	H60627.D	10	04/21/13	AMY	n/a	n/a	MSH2004

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	15.3	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	2.8	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.61	5.0	0.50	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	1.1	5.0	0.58	ug/l	J
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	0.60	1.0	0.51	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.6	5.0	0.35	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	88%	70-130%
2037-26-5	Toluene-D8	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	112%	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Confirmation run.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63178.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.55	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.64	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	5.5	5.5	0.56	ug/l	B
95-95-4	2,4,5-Trichlorophenol	ND	11	0.63	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.94	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.63	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.74	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.55	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	0.48	ug/l	

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Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.55	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.48	ug/l	
78-59-1	Isophorone	ND	5.5	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.55	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	0.55	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.89	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	41%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	92%		30-130%
321-60-8	2-Fluorobiphenyl	88%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82732.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.066	0.11	0.015	ug/l	J
208-96-8	Acenaphthylene	0.018	0.11	0.015	ug/l	J
120-12-7	Anthracene	0.033	0.11	0.019	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.055	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.046	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.036	ug/l	
86-73-7	Fluorene	0.069	0.11	0.051	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.051	ug/l	
90-12-0	1-Methylnaphthalene	0.62	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	0.078	0.22	0.057	ug/l	J
85-01-8	Phenanthrene	0.18	0.055	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-041013		
Lab Sample ID:	MC19724-1	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23696.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	95%		36-173%
460-00-4	Bromofluorobenzene (S)	107%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60594.D	2000	04/20/13	AMY	n/a	n/a	MSH2003
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20000	6000	ug/l	
107-02-8	Acrolein [a]	ND	50000	20000	ug/l	
107-13-1	Acrylonitrile	ND	10000	6500	ug/l	
71-43-2	Benzene	475000	1000	480	ug/l	
108-86-1	Bromobenzene	ND	10000	1200	ug/l	
74-97-5	Bromochloromethane	ND	10000	2500	ug/l	
75-27-4	Bromodichloromethane	ND	2000	1200	ug/l	
75-25-2	Bromoform	ND	2000	1600	ug/l	
74-83-9	Bromomethane	ND	4000	2000	ug/l	
78-93-3	2-Butanone (MEK)	ND	20000	4800	ug/l	
104-51-8	n-Butylbenzene	ND	10000	1200	ug/l	
135-98-8	sec-Butylbenzene	ND	10000	1100	ug/l	
98-06-6	tert-Butylbenzene	ND	10000	1300	ug/l	
75-15-0	Carbon disulfide	ND	10000	1200	ug/l	
56-23-5	Carbon tetrachloride	ND	2000	1700	ug/l	
108-90-7	Chlorobenzene	ND	2000	940	ug/l	
75-00-3	Chloroethane	ND	4000	1000	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10000	2500	ug/l	
67-66-3	Chloroform	ND	2000	990	ug/l	
74-87-3	Chloromethane	ND	4000	1500	ug/l	
95-49-8	o-Chlorotoluene	ND	10000	1300	ug/l	
106-43-4	p-Chlorotoluene	ND	10000	970	ug/l	
124-48-1	Dibromochloromethane	ND	2000	1100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2000	1900	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2000	900	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2000	1300	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4000	3500	ug/l	
75-34-3	1,1-Dichloroethane	ND	2000	1200	ug/l	
107-06-2	1,2-Dichloroethane	ND	2000	1300	ug/l	
75-35-4	1,1-Dichloroethene	ND	2000	820	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2000	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2000	1900	ug/l	

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Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4000	1400	ug/l	
142-28-9	1,3-Dichloropropane	ND	10000	1300	ug/l	
594-20-7	2,2-Dichloropropane	ND	10000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	10000	1800	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	900	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	390	ug/l	
123-91-1	1,4-Dioxane	ND	50000	30000	ug/l	
97-63-2	Ethyl methacrylate	ND	10000	1600	ug/l	
100-41-4	Ethylbenzene	ND	2000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	10000	4100	ug/l	
591-78-6	2-Hexanone	ND	10000	3900	ug/l	
98-82-8	Isopropylbenzene	ND	10000	1000	ug/l	
99-87-6	p-Isopropyltoluene	ND	10000	1100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	820	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10000	5800	ug/l	
74-95-3	Methylene bromide	ND	10000	2200	ug/l	
75-09-2	Methylene chloride	ND	4000	1700	ug/l	
91-20-3	Naphthalene	ND	10000	1000	ug/l	
103-65-1	n-Propylbenzene	ND	10000	1200	ug/l	
100-42-5	Styrene	ND	10000	910	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10000	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	1200	ug/l	
127-18-4	Tetrachloroethene	ND	2000	840	ug/l	
108-88-3	Toluene	ND	2000	1000	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10000	2500	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10000	2600	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	1700	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	1000	ug/l	
79-01-6	Trichloroethene	ND	2000	1600	ug/l	
75-69-4	Trichlorofluoromethane	ND	2000	570	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10000	690	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10000	930	ug/l	
108-05-4	Vinyl Acetate	ND	10000	2500	ug/l	
75-01-4	Vinyl chloride	ND	2000	1300	ug/l	
	m,p-Xylene	ND	2000	1500	ug/l	
95-47-6	o-Xylene	ND	2000	1200	ug/l	
1330-20-7	Xylene (total)	ND	2000	1200	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63180.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	F63273.D	5	04/23/13	KR	04/16/13	OP32681	MSF2955

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2	920 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	147 [a]	27	2.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	0.83	2.2	0.17	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%	46%	15-110%
4165-62-2	Phenol-d5	36%	38%	15-110%
118-79-6	2,4,6-Tribromophenol	98%	98%	15-110%
4165-60-0	Nitrobenzene-d5	94%	96%	30-130%
321-60-8	2-Fluorobiphenyl	89%	93%	30-130%
1718-51-0	Terphenyl-d14	82%	82%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82733.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.2	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	0.15	0.11	0.014	ug/l	
120-12-7	Anthracene	0.089	0.11	0.019	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	0.039	0.11	0.035	ug/l	J
86-73-7	Fluorene	0.81	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	27.1	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	35.1	0.22	0.056	ug/l	
85-01-8	Phenanthrene	1.4	0.054	0.014	ug/l	
129-00-0	Pyrene	0.15	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013		
Lab Sample ID:	MC19724-2	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23697.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	32.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	136%		36-173%
460-00-4	Bromofluorobenzene (S)	138%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60595.D	2000	04/20/13	AMY	n/a	n/a	MSH2003
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20000	6000	ug/l	
107-02-8	Acrolein [a]	ND	50000	20000	ug/l	
107-13-1	Acrylonitrile	ND	10000	6500	ug/l	
71-43-2	Benzene	499000	1000	480	ug/l	
108-86-1	Bromobenzene	ND	10000	1200	ug/l	
74-97-5	Bromochloromethane	ND	10000	2500	ug/l	
75-27-4	Bromodichloromethane	ND	2000	1200	ug/l	
75-25-2	Bromoform	ND	2000	1600	ug/l	
74-83-9	Bromomethane	ND	4000	2000	ug/l	
78-93-3	2-Butanone (MEK)	ND	20000	4800	ug/l	
104-51-8	n-Butylbenzene	ND	10000	1200	ug/l	
135-98-8	sec-Butylbenzene	ND	10000	1100	ug/l	
98-06-6	tert-Butylbenzene	ND	10000	1300	ug/l	
75-15-0	Carbon disulfide	ND	10000	1200	ug/l	
56-23-5	Carbon tetrachloride	ND	2000	1700	ug/l	
108-90-7	Chlorobenzene	ND	2000	940	ug/l	
75-00-3	Chloroethane	ND	4000	1000	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10000	2500	ug/l	
67-66-3	Chloroform	ND	2000	990	ug/l	
74-87-3	Chloromethane	ND	4000	1500	ug/l	
95-49-8	o-Chlorotoluene	ND	10000	1300	ug/l	
106-43-4	p-Chlorotoluene	ND	10000	970	ug/l	
124-48-1	Dibromochloromethane	ND	2000	1100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2000	1900	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2000	900	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2000	1300	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4000	3500	ug/l	
75-34-3	1,1-Dichloroethane	ND	2000	1200	ug/l	
107-06-2	1,2-Dichloroethane	ND	2000	1300	ug/l	
75-35-4	1,1-Dichloroethene	ND	2000	820	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2000	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2000	1900	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4000	1400	ug/l	
142-28-9	1,3-Dichloropropane	ND	10000	1300	ug/l	
594-20-7	2,2-Dichloropropane	ND	10000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	10000	1800	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	900	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	390	ug/l	
123-91-1	1,4-Dioxane	ND	50000	30000	ug/l	
97-63-2	Ethyl methacrylate	ND	10000	1600	ug/l	
100-41-4	Ethylbenzene	ND	2000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	10000	4100	ug/l	
591-78-6	2-Hexanone	ND	10000	3900	ug/l	
98-82-8	Isopropylbenzene	ND	10000	1000	ug/l	
99-87-6	p-Isopropyltoluene	ND	10000	1100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	820	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10000	5800	ug/l	
74-95-3	Methylene bromide	ND	10000	2200	ug/l	
75-09-2	Methylene chloride	ND	4000	1700	ug/l	
91-20-3	Naphthalene	ND	10000	1000	ug/l	
103-65-1	n-Propylbenzene	ND	10000	1200	ug/l	
100-42-5	Styrene	ND	10000	910	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10000	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	1200	ug/l	
127-18-4	Tetrachloroethene	ND	2000	840	ug/l	
108-88-3	Toluene	ND	2000	1000	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10000	2500	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10000	2600	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	1700	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	1000	ug/l	
79-01-6	Trichloroethene	ND	2000	1600	ug/l	
75-69-4	Trichlorofluoromethane	ND	2000	570	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10000	690	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10000	930	ug/l	
108-05-4	Vinyl Acetate	ND	10000	2500	ug/l	
75-01-4	Vinyl chloride	ND	2000	1300	ug/l	
	m,p-Xylene	ND	2000	1500	ug/l	
95-47-6	o-Xylene	ND	2000	1200	ug/l	
1330-20-7	Xylene (total)	ND	2000	1200	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63181.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	F63277.D	5	04/23/13	KR	04/16/13	OP32681	MSF2955

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	148 [a]	27	2.7	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	0.88	2.1	0.17	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%	46%	15-110%
4165-62-2	Phenol-d5	35%	38%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	105%	15-110%
4165-60-0	Nitrobenzene-d5	98%	108%	30-130%
321-60-8	2-Fluorobiphenyl	92%	103%	30-130%
1718-51-0	Terphenyl-d14	81%	90%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82734.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.2	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	0.16	0.11	0.014	ug/l	
120-12-7	Anthracene	0.11	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	0.068	0.11	0.035	ug/l	J
86-73-7	Fluorene	0.87	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	27.4	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	35.7	0.21	0.055	ug/l	
85-01-8	Phenanthrene	1.5	0.053	0.013	ug/l	
129-00-0	Pyrene	0.16	0.11	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-041013-DUP		
Lab Sample ID:	MC19724-3	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23698.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	129%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60596.D	5000	04/20/13	AMY	n/a	n/a	MSH2003
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50000	15000	ug/l	
107-02-8	Acrolein [a]	ND	130000	51000	ug/l	
107-13-1	Acrylonitrile	ND	25000	16000	ug/l	
71-43-2	Benzene	969000	2500	1200	ug/l	
108-86-1	Bromobenzene	ND	25000	3100	ug/l	
74-97-5	Bromochloromethane	ND	25000	6300	ug/l	
75-27-4	Bromodichloromethane	ND	5000	2900	ug/l	
75-25-2	Bromoform	ND	5000	3900	ug/l	
74-83-9	Bromomethane	ND	10000	5100	ug/l	
78-93-3	2-Butanone (MEK)	ND	50000	12000	ug/l	
104-51-8	n-Butylbenzene	ND	25000	3000	ug/l	
135-98-8	sec-Butylbenzene	ND	25000	2800	ug/l	
98-06-6	tert-Butylbenzene	ND	25000	3200	ug/l	
75-15-0	Carbon disulfide	ND	25000	3100	ug/l	
56-23-5	Carbon tetrachloride	ND	5000	4300	ug/l	
108-90-7	Chlorobenzene	ND	5000	2300	ug/l	
75-00-3	Chloroethane	ND	10000	2500	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	25000	6300	ug/l	
67-66-3	Chloroform	ND	5000	2500	ug/l	
74-87-3	Chloromethane	ND	10000	3700	ug/l	
95-49-8	o-Chlorotoluene	ND	25000	3200	ug/l	
106-43-4	p-Chlorotoluene	ND	25000	2400	ug/l	
124-48-1	Dibromochloromethane	ND	5000	2600	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5000	4600	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5000	2300	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5000	3200	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10000	8600	ug/l	
75-34-3	1,1-Dichloroethane	ND	5000	3100	ug/l	
107-06-2	1,2-Dichloroethane	ND	5000	3200	ug/l	
75-35-4	1,1-Dichloroethene	ND	5000	2100	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5000	3200	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5000	4700	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	10000	3600	ug/l	
142-28-9	1,3-Dichloropropane	ND	25000	3200	ug/l	
594-20-7	2,2-Dichloropropane	ND	25000	7900	ug/l	
563-58-6	1,1-Dichloropropene	ND	25000	4600	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2500	2200	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2500	980	ug/l	
123-91-1	1,4-Dioxane	ND	130000	74000	ug/l	
97-63-2	Ethyl methacrylate	ND	25000	4100	ug/l	
100-41-4	Ethylbenzene	ND	5000	2500	ug/l	
87-68-3	Hexachlorobutadiene	ND	25000	10000	ug/l	
591-78-6	2-Hexanone	ND	25000	9800	ug/l	
98-82-8	Isopropylbenzene	ND	25000	2500	ug/l	
99-87-6	p-Isopropyltoluene	ND	25000	2900	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5000	2100	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25000	15000	ug/l	
74-95-3	Methylene bromide	ND	25000	5500	ug/l	
75-09-2	Methylene chloride	ND	10000	4200	ug/l	
91-20-3	Naphthalene	ND	25000	2500	ug/l	
103-65-1	n-Propylbenzene	ND	25000	2900	ug/l	
100-42-5	Styrene	ND	25000	2300	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25000	2900	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5000	3000	ug/l	
127-18-4	Tetrachloroethene	ND	5000	2100	ug/l	
108-88-3	Toluene	ND	5000	2500	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25000	6300	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25000	6400	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5000	4200	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5000	2500	ug/l	
79-01-6	Trichloroethene	ND	5000	3900	ug/l	
75-69-4	Trichlorofluoromethane	ND	5000	1400	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25000	4200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25000	1700	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25000	2300	ug/l	
108-05-4	Vinyl Acetate	ND	25000	6300	ug/l	
75-01-4	Vinyl chloride	ND	5000	3100	ug/l	
	m,p-Xylene	ND	5000	3700	ug/l	
95-47-6	o-Xylene	ND	5000	2900	ug/l	
1330-20-7	Xylene (total)	ND	5000	2900	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63182.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	F63278.D	5	04/23/13	KR	04/16/13	OP32681	MSF2955

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	35.8	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	38.8	11	1.4	ug/l	
	3&4-Methylphenol	84.0	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	253 [a]	27	2.7	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.61	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.91	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.72	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	1.3	5.3	0.41	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.3	2.1	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.47	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.86	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	61%	15-110%
4165-62-2	Phenol-d5	43%	50%	15-110%
118-79-6	2,4,6-Tribromophenol	99%	112% [b]	15-110%
4165-60-0	Nitrobenzene-d5	85%	98%	30-130%
321-60-8	2-Fluorobiphenyl	81%	95%	30-130%
1718-51-0	Terphenyl-d14	91%	104%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82735.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.18	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	0.059	0.11	0.014	ug/l	J
120-12-7	Anthracene	0.072	0.11	0.019	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	0.056	0.11	0.035	ug/l	J
86-73-7	Fluorene	0.32	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	9.1	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	11.3	0.21	0.055	ug/l	
85-01-8	Phenanthrene	0.19	0.053	0.013	ug/l	
129-00-0	Pyrene	0.042	0.11	0.038	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-041013		
Lab Sample ID:	MC19724-4	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23699.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		36-173%
460-00-4	Bromofluorobenzene (S)	120%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60582.D	1	04/20/13	AMY	n/a	n/a	MSH2003
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	172	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U13718.D	1	04/19/13	NS	04/15/13	OP32661	MSU694
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.44	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.57	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.38	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.4	ug/l	
95-48-7	2-Methylphenol	ND	11	1.5	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.67	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.7	0.59	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.66	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.36	ug/l	
62-53-3	Aniline	ND	11	0.73	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.98	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.66	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	1.1	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.24	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.23	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.75	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.74	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.57	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.7	0.45	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.7	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.57	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.56	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.34	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.9	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.50	ug/l	
78-59-1	Isophorone	ND	5.7	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	11	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.29	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	0.57	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.93	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.62	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82672.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.016	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.015	ug/l	
120-12-7	Anthracene	ND	0.11	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.034	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.020	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.027	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.043	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.067	ug/l	
218-01-9	Chrysene	ND	0.11	0.084	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.048	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.037	ug/l	
86-73-7	Fluorene	ND	0.11	0.053	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.053	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.23	0.16	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.23	0.060	ug/l	
85-01-8	Phenanthrene	ND	0.057	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-041013		
Lab Sample ID:	MC19724-5	**Date Sampled:**	04/10/13
Matrix:	AQ - Ground Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23700.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	84%		36-173%
460-00-4	Bromofluorobenzene (S)	97%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041013-HCL		
Lab Sample ID:	MC19724-6	**Date Sampled:**	04/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60649.D	1	04/22/13	KR	n/a	n/a	MSH2005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041013-HCL		
Lab Sample ID:	MC19724-6	**Date Sampled:**	04/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041013-HCL		
Lab Sample ID:	MC19724-6	**Date Sampled:**	04/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/11/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041013-ST		
Lab Sample ID:	MC19724-7	**Date Sampled:**	04/10/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/11/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23701.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	76%		36-173%
460-00-4	Bromofluorobenzene (S)	87%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

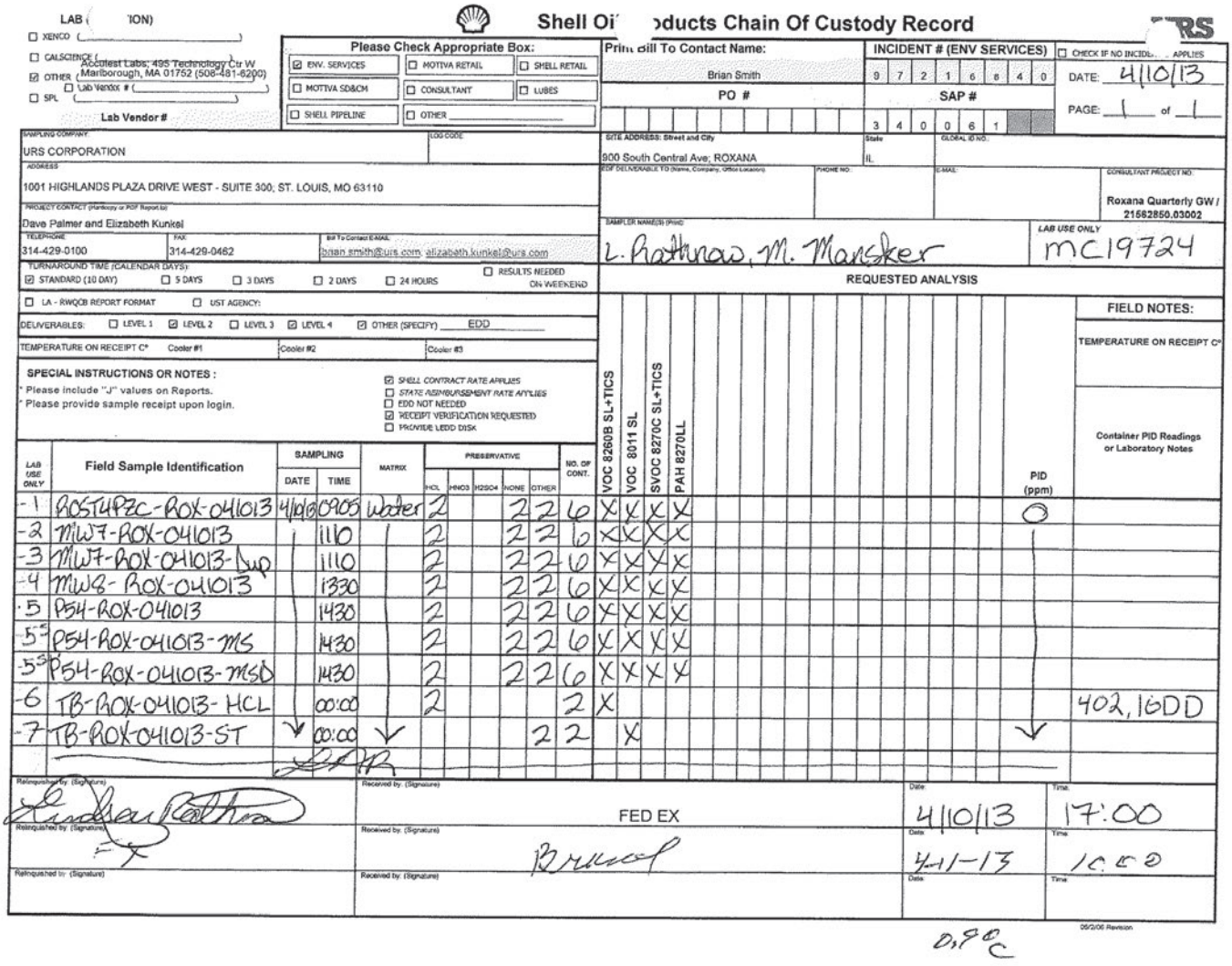
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (ION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # (_____)
☐ SPL (_____)
Lab Vendor #

Shell Oi[illegible]oducts Chain Of Custody Record

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Smith
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDE... APPLIES
DATE: 4/10/13
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Dave Palmer and Elizabeth Kunkel
TELEPHONE: 314-429-0100 FAX: 314-429-0462
Bill To Contact E-MAIL: brian.smith@urs.com; elizabeth.kunkel@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21582850.03002
SAMPLER NAME(S) (Print): L. Rathman, M. Marsker
LAB USE ONLY: MC19724

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	ROST4PZC-ROX-041013	4/10	0905	Water	2			2	2	6	X	X	X	X	0	
-2	MW7-ROX-041013		1110		2			2	2	6	X	X	X	X		
-3	MW7-ROX-041013-DUP		1110		2			2	2	6	X	X	X	X		
-4	MW8-ROX-041013		1330		2			2	2	6	X	X	X	X		
-5	P54-ROX-041013		1430		2			2	2	6	X	X	X	X		
-5S	P54-ROX-041013-MS		1430		2			2	2	6	X	X	X	X		
-5SD	P54-ROX-041013-MSD		1430		2			2	2	6	X	X	X	X		
-6	TB-ROX-041013-HCL		00:00		2					2	X					402,16DD
-7	TB-ROX-041013-ST	↓	00:00	↓					2	2		X			↓	

Relinquished by: (Signature) [signature] — Received by: (Signature) FED EX — Date: 4/10/13 — Time: 17:00
Relinquished by: (Signature) [signature] — Received by: (Signature) [signature] — Date: 4-11-13 — Time: 10:00
Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

05/2/06 Revision

0.9°C

MC19724: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19724 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/11/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL AVE **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC19724: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19724

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19724-1 Collected: 10-APR-13 09:05 By: LRMM Received: 11-APR-13 By: ROST4PZC-ROX-041013						
MC19724-1	SW846 8011	19-APR-13 00:28	NK	17-APR-13	BJ	V8011SL
MC19724-1	SW846 8270C	19-APR-13 11:41	KR	16-APR-13	PA	AB8270SL+
MC19724-1	SW846 8270C BY SIM	19-APR-13 14:07	NS	16-APR-13	PA	B8270SIMSL
MC19724-1	SW846 8260B	21-APR-13 17:06	AMY			V8260SL+
MC19724-1	SW846 8260B	22-APR-13 15:00	KR			V8260SL+
MC19724-2 Collected: 10-APR-13 11:10 By: LRMM Received: 11-APR-13 By: MW7-ROX-041013						
MC19724-2	SW846 8011	19-APR-13 00:53	NK	17-APR-13	BJ	V8011SL
MC19724-2	SW846 8270C	19-APR-13 12:29	KR	16-APR-13	PA	AB8270SL+
MC19724-2	SW846 8270C BY SIM	19-APR-13 14:30	NS	16-APR-13	PA	B8270SIMSL
MC19724-2	SW846 8260B	20-APR-13 19:54	AMY			V8260SL+
MC19724-2	SW846 8270C	23-APR-13 10:38	KR	16-APR-13	PA	AB8270SL+
MC19724-3 Collected: 10-APR-13 11:10 By: LRMM Received: 11-APR-13 By: MW7-ROX-041013-DUP						
MC19724-3	SW846 8011	19-APR-13 01:18	NK	17-APR-13	BJ	V8011SL
MC19724-3	SW846 8270C	19-APR-13 12:53	KR	16-APR-13	PA	AB8270SL+
MC19724-3	SW846 8270C BY SIM	19-APR-13 14:54	NS	16-APR-13	PA	B8270SIMSL
MC19724-3	SW846 8260B	20-APR-13 20:22	AMY			V8260SL+
MC19724-3	SW846 8270C	23-APR-13 12:16	KR	16-APR-13	PA	AB8270SL+
MC19724-4 Collected: 10-APR-13 13:30 By: LRMM Received: 11-APR-13 By: MW8-ROX-041013						
MC19724-4	SW846 8011	19-APR-13 01:44	NK	17-APR-13	BJ	V8011SL
MC19724-4	SW846 8270C	19-APR-13 13:17	KR	16-APR-13	PA	AB8270SL+
MC19724-4	SW846 8270C BY SIM	19-APR-13 15:18	NS	16-APR-13	PA	B8270SIMSL
MC19724-4	SW846 8260B	20-APR-13 20:49	AMY			V8260SL+
MC19724-4	SW846 8270C	23-APR-13 12:40	KR	16-APR-13	PA	AB8270SL+
MC19724-5 Collected: 10-APR-13 14:30 By: LRMM Received: 11-APR-13 By: P54-ROX-041013						
MC19724-5	SW846 8270C BY SIM	17-APR-13 19:44	NS	15-APR-13	MEW	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19724

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19724-5	SW846 8011	19-APR-13 02:09	NK	17-APR-13	BJ	V8011SL
MC19724-5	SW846 8270C	19-APR-13 10:57	NS	15-APR-13	MEW	AB8270SL+
MC19724-5	SW846 8260B	20-APR-13 14:23	AMY			V8260SL+
MC19724-6 Collected: 10-APR-13 00:00 By: LRMM Received: 11-APR-13 By: TB-ROX-041013-HCL						
MC19724-6	SW846 8260B	22-APR-13 13:55	KR			V8260SL+
MC19724-7 Collected: 10-APR-13 00:00 By: LRMM Received: 11-APR-13 By: TB-ROX-041013-ST						
MC19724-7	SW846 8011	19-APR-13 02:34	NK	17-APR-13	BJ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/11/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19724-1.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19724-1.2	Michael Rolo		04/17/13 07:24	Depleted
MC19724-1.3	VOC Ref #4	Amy Min Yang	04/21/13 09:08	Retrieve from Storage
MC19724-1.3	Amy Min Yang	GCMSH	04/21/13 09:08	Load on Instrument
MC19724-1.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-1.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-1.3	VOC Ref #4	Gary Krasinski	04/22/13 14:03	Retrieve from Storage
MC19724-1.3	Gary Krasinski	GCMSH	04/22/13 14:03	Load on Instrument
MC19724-1.3	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19724-1.3	Gary Krasinski	VOC Ref #4	04/23/13 09:22	Return to Storage
MC19724-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC19724-1.4	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-1.4	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-1.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-1.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-1.4	Scott Parsick		07/24/13 13:54	Disposed
MC19724-1.6	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-1.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-2.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19724-2.1	Michael Rolo		04/17/13 07:24	Depleted
MC19724-2.3	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-2.3	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-2.3	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-2.3	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-2.3	Scott Parsick		07/24/13 13:54	Disposed
MC19724-2.6	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-2.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-3.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19724-3.2	Michael Rolo		04/17/13 07:24	Depleted
MC19724-3.4	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-3.4	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-3.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-3.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19724-3.5	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/11/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19724-3.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-4.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19724-4.2	Michael Rolo		04/17/13 07:24	Depleted
MC19724-4.3	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-4.3	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-4.4	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-4.4	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-4.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-4.4	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-4.4	Scott Parsick		07/24/13 13:54	Disposed
MC19724-5.3	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19724-5.3	Michael Rolo		04/16/13 07:05	Depleted
MC19724-5.5	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19724-5.5	Michael Rolo		04/16/13 07:05	Depleted
MC19724-5.6	Walk In Ref #22	Michael Rolo	04/15/13 07:49	Retrieve from Storage
MC19724-5.6	Michael Rolo		04/16/13 07:05	Depleted
MC19724-5.7	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-5.7	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-5.7	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-5.7	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-5.7	Scott Parsick		07/24/13 13:54	Disposed
MC19724-5.8	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-5.8	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-5.8	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19724-5.8	Kerry Ryan	VOC Ref #4	04/22/13 11:17	Return to Storage
MC19724-5.8	Scott Parsick		07/24/13 13:54	Disposed
MC19724-5.9	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-5.9	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-5.9	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-5.9	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-5.9	Scott Parsick		07/24/13 13:54	Disposed
MC19724-5.12	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-5.12	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-5.12	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/11/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19724-5.12	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-5.12	Scott Parsick		07/24/13 13:54	Disposed
MC19724-5.13	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-5.13	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-5.14	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-5.14	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-5.15	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-5.15	Bijan Jafari		04/20/13 08:36	Depleted
MC19724-6.1	VOC Ref #4	Amy Min Yang	04/20/13 12:42	Retrieve from Storage
MC19724-6.1	Amy Min Yang	GCMSH	04/20/13 12:42	Load on Instrument
MC19724-6.1	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19724-6.1	Kerry Ryan	VOC Ref #4	04/22/13 08:56	Return to Storage
MC19724-6.1	Scott Parsick		07/24/13 13:54	Disposed
MC19724-6.2	VOC Ref #4	Gary Krasinski	04/22/13 13:19	Retrieve from Storage
MC19724-6.2	Gary Krasinski	GCMSH	04/22/13 13:20	Load on Instrument
MC19724-6.2	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19724-6.2	Gary Krasinski	VOC Ref #4	04/23/13 09:22	Return to Storage
MC19724-6.2	Scott Parsick		07/24/13 13:54	Disposed
MC19724-7.2	VOC Ref #4	Bijan Jafari	04/17/13 16:47	Retrieve from Storage
MC19724-7.2	Bijan Jafari		04/20/13 08:36	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-MB	H60579.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-MB	H60579.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-MB	H60579.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-BS	H60577.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	81.6	163* [a]	70-130
107-02-8	Acrolein	250	148	59* [a]	70-130
107-13-1	Acrylonitrile	50	37.2	74	70-130
71-43-2	Benzene	50	49.9	100	70-130
108-86-1	Bromobenzene	50	56.4	113	70-130
74-97-5	Bromochloromethane	50	48.8	98	70-130
75-27-4	Bromodichloromethane	50	52.6	105	70-130
75-25-2	Bromoform	50	55.7	111	70-130
74-83-9	Bromomethane	50	52.3	105	70-130
78-93-3	2-Butanone (MEK)	50	59.4	119	70-130
104-51-8	n-Butylbenzene	50	54.0	108	70-130
135-98-8	sec-Butylbenzene	50	52.9	106	70-130
98-06-6	tert-Butylbenzene	50	52.2	104	70-130
75-15-0	Carbon disulfide	50	41.5	83	70-130
56-23-5	Carbon tetrachloride	50	51.4	103	70-130
108-90-7	Chlorobenzene	50	52.6	105	70-130
75-00-3	Chloroethane	50	47.1	94	70-130
110-75-8	2-Chloroethyl vinyl ether	50	24.6	49* [a]	70-130
67-66-3	Chloroform	50	47.5	95	70-130
74-87-3	Chloromethane	50	52.0	104	70-130
95-49-8	o-Chlorotoluene	50	50.2	100	70-130
106-43-4	p-Chlorotoluene	50	52.2	104	70-130
124-48-1	Dibromochloromethane	50	54.3	109	70-130
95-50-1	1,2-Dichlorobenzene	50	52.5	105	70-130
541-73-1	1,3-Dichlorobenzene	50	53.8	108	70-130
106-46-7	1,4-Dichlorobenzene	50	53.5	107	70-130
75-71-8	Dichlorodifluoromethane	50	43.2	86	70-130
75-34-3	1,1-Dichloroethane	50	44.5	89	70-130
107-06-2	1,2-Dichloroethane	50	46.6	93	70-130
75-35-4	1,1-Dichloroethene	50	47.3	95	70-130
156-59-2	cis-1,2-Dichloroethene	50	47.6	95	70-130
156-60-5	trans-1,2-Dichloroethene	50	46.6	93	70-130
78-87-5	1,2-Dichloropropane	50	46.5	93	70-130
142-28-9	1,3-Dichloropropane	50	51.8	104	70-130
594-20-7	2,2-Dichloropropane	50	52.1	104	70-130
563-58-6	1,1-Dichloropropene	50	48.3	97	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-BS	H60577.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	45.2	90	70-130
10061-02-6	trans-1,3-Dichloropropene	50	47.1	94	70-130
123-91-1	1,4-Dioxane	250	228	91	70-130
97-63-2	Ethyl methacrylate	50	44.9	90	77-137
100-41-4	Ethylbenzene	50	57.2	114	70-130
87-68-3	Hexachlorobutadiene	50	54.8	110	70-130
591-78-6	2-Hexanone	50	68.9	138* [a]	70-130
98-82-8	Isopropylbenzene	50	53.8	108	70-130
99-87-6	p-Isopropyltoluene	50	57.3	115	70-130
1634-04-4	Methyl Tert Butyl Ether	50	44.5	89	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	44.5	89	70-130
74-95-3	Methylene bromide	50	49.6	99	70-130
75-09-2	Methylene chloride	50	44.1	88	70-130
91-20-3	Naphthalene	50	45.5	91	70-130
103-65-1	n-Propylbenzene	50	51.8	104	70-130
100-42-5	Styrene	50	58.0	116	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	60.2	120	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	57.1	114	70-130
127-18-4	Tetrachloroethene	50	58.0	116	70-130
108-88-3	Toluene	50	50.4	101	70-130
87-61-6	1,2,3-Trichlorobenzene	50	49.4	99	70-130
120-82-1	1,2,4-Trichlorobenzene	50	50.9	102	70-130
71-55-6	1,1,1-Trichloroethane	50	47.0	94	70-130
79-00-5	1,1,2-Trichloroethane	50	47.6	95	70-130
79-01-6	Trichloroethene	50	47.7	95	70-130
75-69-4	Trichlorofluoromethane	50	39.9	80	70-130
96-18-4	1,2,3-Trichloropropane	50	51.6	103	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.9	110	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.6	111	70-130
108-05-4	Vinyl Acetate	50	52.8	106	70-130
75-01-4	Vinyl chloride	50	41.2	82	70-130
	m,p-Xylene	100	116	116	70-130
95-47-6	o-Xylene	50	56.1	112	70-130
1330-20-7	Xylene (total)	150	172	115	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2003-BS	H60577.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	107%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	79.1	158* [a]	70-130
107-02-8	Acrolein	250	119	48* [a]	70-130
107-13-1	Acrylonitrile	50	30.9	62* [a]	70-130
71-43-2	Benzene	50	50.1	100	70-130
108-86-1	Bromobenzene	50	57.6	115	70-130
74-97-5	Bromochloromethane	50	49.5	99	70-130
75-27-4	Bromodichloromethane	50	61.1	122	70-130
75-25-2	Bromoform	50	60.8	122	70-130
74-83-9	Bromomethane	50	50.9	102	70-130
78-93-3	2-Butanone (MEK)	50	56.6	113	70-130
104-51-8	n-Butylbenzene	50	58.6	117	70-130
135-98-8	sec-Butylbenzene	50	55.3	111	70-130
98-06-6	tert-Butylbenzene	50	56.7	113	70-130
75-15-0	Carbon disulfide	50	43.5	87	70-130
56-23-5	Carbon tetrachloride	50	67.0	134* [a]	70-130
108-90-7	Chlorobenzene	50	53.0	106	70-130
75-00-3	Chloroethane	50	48.1	96	70-130
110-75-8	2-Chloroethyl vinyl ether	50	33.8	68* [a]	70-130
67-66-3	Chloroform	50	50.7	101	70-130
74-87-3	Chloromethane	50	52.9	106	70-130
95-49-8	o-Chlorotoluene	50	52.4	105	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	59.5	119	70-130
95-50-1	1,2-Dichlorobenzene	50	55.7	111	70-130
541-73-1	1,3-Dichlorobenzene	50	56.4	113	70-130
106-46-7	1,4-Dichlorobenzene	50	55.0	110	70-130
75-71-8	Dichlorodifluoromethane	50	60.4	121	70-130
75-34-3	1,1-Dichloroethane	50	45.1	90	70-130
107-06-2	1,2-Dichloroethane	50	56.8	114	70-130
75-35-4	1,1-Dichloroethene	50	48.8	98	70-130
156-59-2	cis-1,2-Dichloroethene	50	46.4	93	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	70-130
78-87-5	1,2-Dichloropropane	50	46.6	93	70-130
142-28-9	1,3-Dichloropropane	50	53.1	106	70-130
594-20-7	2,2-Dichloropropane	50	60.4	121	70-130
563-58-6	1,1-Dichloropropene	50	53.7	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.7	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.0	106	70-130
123-91-1	1,4-Dioxane	250	221	88	70-130
97-63-2	Ethyl methacrylate	50	45.4	91	77-137
100-41-4	Ethylbenzene	50	58.6	117	70-130
87-68-3	Hexachlorobutadiene	50	64.4	129	70-130
591-78-6	2-Hexanone	50	64.2	128	70-130
98-82-8	Isopropylbenzene	50	55.8	112	70-130
99-87-6	p-Isopropyltoluene	50	60.8	122	70-130
1634-04-4	Methyl Tert Butyl Ether	50	47.4	95	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.5	85	70-130
74-95-3	Methylene bromide	50	55.2	110	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
91-20-3	Naphthalene	50	48.9	98	70-130
103-65-1	n-Propylbenzene	50	53.5	107	70-130
100-42-5	Styrene	50	59.2	118	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	67.3	135* [a]	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	55.0	110	70-130
127-18-4	Tetrachloroethene	50	60.2	120	70-130
108-88-3	Toluene	50	51.5	103	70-130
87-61-6	1,2,3-Trichlorobenzene	50	55.8	112	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.0	114	70-130
71-55-6	1,1,1-Trichloroethane	50	56.7	113	70-130
79-00-5	1,1,2-Trichloroethane	50	50.7	101	70-130
79-01-6	Trichloroethene	50	52.4	105	70-130
75-69-4	Trichlorofluoromethane	50	56.5	113	70-130
96-18-4	1,2,3-Trichloropropane	50	53.3	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.7	115	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.2	116	70-130
108-05-4	Vinyl Acetate	50	49.9	100	70-130
75-01-4	Vinyl chloride	50	45.1	90	70-130
	m,p-Xylene	100	117	117	70-130
95-47-6	o-Xylene	50	58.4	117	70-130
1330-20-7	Xylene (total)	150	176	117	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19724-5MS	H60589.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5MSD	H60590.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5	H60582.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	40.6	81	50	43.4	87	7	70-130/30
107-02-8	Acrolein	ND		250	136	54* a	250	134	54* a	1	70-130/30
107-13-1	Acrylonitrile	ND		50	36.3	73	50	38.3	77	5	70-130/30
71-43-2	Benzene	172		50	217	90	50	212	80	2	70-130/30
108-86-1	Bromobenzene	ND		50	60.2	120	50	60.2	120	0	70-130/30
74-97-5	Bromochloromethane	ND		50	54.3	109	50	54.0	108	1	70-130/30
75-27-4	Bromodichloromethane	ND		50	62.5	125	50	59.9	120	4	70-130/30
75-25-2	Bromoform	ND		50	58.4	117	50	58.1	116	1	70-130/30
74-83-9	Bromomethane	ND		50	54.5	109	50	53.1	106	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	42.5	85	50	43.1	86	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	60.9	122	50	59.3	119	3	70-130/30
135-98-8	sec-Butylbenzene	ND		50	59.7	119	50	57.7	115	3	70-130/30
98-06-6	tert-Butylbenzene	ND		50	60.2	120	50	59.8	120	1	70-130/30
75-15-0	Carbon disulfide	ND		50	40.6	81	50	40.6	81	0	70-130/30
56-23-5	Carbon tetrachloride	ND		50	66.6	133* a	50	64.0	128	4	70-130/30
108-90-7	Chlorobenzene	ND		50	57.0	114	50	55.7	111	2	70-130/30
75-00-3	Chloroethane	ND		50	51.1	102	50	50.5	101	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	1.4	3* a	50	ND	0* a	200* b	70-130/30
67-66-3	Chloroform	ND		50	55.9	112	50	54.2	108	3	70-130/30
74-87-3	Chloromethane	ND		50	57.0	114	50	57.2	114	0	70-130/30
95-49-8	o-Chlorotoluene	ND		50	55.1	110	50	54.6	109	1	70-130/30
106-43-4	p-Chlorotoluene	ND		50	57.6	115	50	57.3	115	1	70-130/30
124-48-1	Dibromochloromethane	ND		50	59.0	118	50	57.3	115	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	57.2	114	50	56.3	113	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	58.7	117	50	57.0	114	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	58.6	117	50	58.1	116	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	58.7	117	50	56.5	113	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	51.1	102	50	49.6	99	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	57.7	115	50	55.7	111	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	56.0	112	50	53.3	107	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	51.7	103	50	50.4	101	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	52.7	105	50	50.9	102	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	49.3	99	50	49.1	98	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	57.2	114	50	57.0	114	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	61.8	124	50	60.0	120	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	57.3	115	50	56.6	113	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19724-5MS	H60589.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5MSD	H60590.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5	H60582.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	49.2	98	50	47.6	95	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.3	105	50	51.6	103	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	220	88	250	223	89	1	70-130/30
97-63-2	Ethyl methacrylate	ND		50	47.8	96	50	47.6	95	0	72-139/30
100-41-4	Ethylbenzene	ND		50	64.6	129	50	63.0	126	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	63.0	126	50	62.0	124	2	70-130/30
591-78-6	2-Hexanone	ND		50	47.8	96	50	48.1	96	1	70-130/30
98-82-8	Isopropylbenzene	ND		50	59.9	120	50	59.1	118	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	65.1	130	50	63.7	127	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	51.2	102	50	50.2	100	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	44.4	89	50	44.9	90	1	70-130/30
74-95-3	Methylene bromide	ND		50	56.0	112	50	56.0	112	0	70-130/30
75-09-2	Methylene chloride	ND		50	50.3	101	50	49.2	98	2	70-130/30
91-20-3	Naphthalene	ND		50	47.6	95	50	49.3	99	4	70-130/30
103-65-1	n-Propylbenzene	ND		50	57.7	115	50	56.4	113	2	70-130/30
100-42-5	Styrene	ND		50	62.9	126	50	58.8	118	7	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	68.4	137* [a]	50	65.9	132* [a]	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	60.1	120	50	60.4	121	0	70-130/30
127-18-4	Tetrachloroethene	ND		50	66.4	133* [a]	50	65.0	130	2	70-130/30
108-88-3	Toluene	ND		50	56.2	112	50	54.9	110	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	52.8	106	50	54.3	109	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	55.2	110	50	54.2	108	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	61.4	123	50	58.9	118	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	52.5	105	50	51.0	102	3	70-130/30
79-01-6	Trichloroethene	ND		50	55.7	111	50	53.4	107	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	53.2	106	50	50.4	101	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	53.1	106	50	54.5	109	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	61.0	122	50	60.2	120	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	61.7	123	50	61.2	122	1	70-130/30
108-05-4	Vinyl Acetate	ND		50	53.9	108	50	55.0	110	2	70-130/30
75-01-4	Vinyl chloride	ND		50	45.9	92	50	45.8	92	0	70-130/30
	m,p-Xylene	ND		100	129	129	100	126	126	2	70-130/30
95-47-6	o-Xylene	ND		50	62.7	125	50	61.7	123	2	70-130/30
1330-20-7	Xylene (total)	ND		150	191	127	150	188	125	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19724-5MS	H60589.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5MSD	H60590.D	1	04/20/13	AMY	n/a	n/a	MSH2003
MC19724-5	H60582.D	1	04/20/13	AMY	n/a	n/a	MSH2003

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-2, MC19724-3, MC19724-4, MC19724-5

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
1868-53-7	Dibromofluoromethane	98%	96%	89%	70-130%
2037-26-5	Toluene-D8	99%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	107%	112%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	191	76	250	176	70	8	70-130/30
107-02-8	Acrolein	ND		1250	581	46* a	1250	531	42* a	9	70-130/30
107-13-1	Acrylonitrile	ND		250	161	64* a	250	145	58* a	10	70-130/30
71-43-2	Benzene	ND		250	249	100	250	228	91	9	70-130/30
108-86-1	Bromobenzene	ND		250	279	112	250	261	104	7	70-130/30
74-97-5	Bromochloromethane	ND		250	243	97	250	228	91	6	70-130/30
75-27-4	Bromodichloromethane	ND		250	303	121	250	270	108	12	70-130/30
75-25-2	Bromoform	ND		250	299	120	250	269	108	11	70-130/30
74-83-9	Bromomethane	ND		250	250	100	250	234	94	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	192	77	250	178	71	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	268	107	250	247	99	8	70-130/30
135-98-8	sec-Butylbenzene	ND		250	258	103	250	240	96	7	70-130/30
98-06-6	tert-Butylbenzene	ND		250	269	108	250	251	100	7	70-130/30
75-15-0	Carbon disulfide	ND		250	193	77	250	167	67* a	14	70-130/30
56-23-5	Carbon tetrachloride	ND		250	323	129	250	286	114	12	70-130/30
108-90-7	Chlorobenzene	ND		250	261	104	250	242	97	8	70-130/30
75-00-3	Chloroethane	ND		250	224	90	250	211	84	6	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	ND	0* a	nc	70-130/30
67-66-3	Chloroform	1.1		250	253	101	250	230	92	10	70-130/30
74-87-3	Chloromethane	ND		250	245	98	250	229	92	7	70-130/30
95-49-8	o-Chlorotoluene	ND		250	251	100	250	231	92	8	70-130/30
106-43-4	p-Chlorotoluene	ND		250	261	104	250	243	97	7	70-130/30
124-48-1	Dibromochloromethane	ND		250	290	116	250	268	107	8	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	266	106	250	246	98	8	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	250	100	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	270	108	250	254	102	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	278	111	250	255	102	9	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	221	88	250	199	80	10	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	283	113	250	255	102	10	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	232	93	250	210	84	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	228	91	250	209	84	9	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	221	88	250	204	82	8	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	229	92	250	208	83	10	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	265	106	250	249	100	6	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	288	115	250	266	106	8	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	257	103	250	240	96	7	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	237	95	250	211	84	12	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	260	104	250	233	93	11	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1010	81	1250	976	78	3	70-130/30
97-63-2	Ethyl methacrylate	ND		250	227	91	250	202	81	12	72-139/30
100-41-4	Ethylbenzene	ND		250	290	116	250	268	107	8	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	290	116	250	265	106	9	70-130/30
591-78-6	2-Hexanone	ND		250	219	88	250	205	82	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	266	106	250	247	99	7	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	290	116	250	270	108	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	232	93	250	209	84	10	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	206	82	250	188	75	9	70-130/30
74-95-3	Methylene bromide	ND		250	274	110	250	249	100	10	70-130/30
75-09-2	Methylene chloride	ND		250	215	86	250	200	80	7	70-130/30
91-20-3	Naphthalene	ND		250	226	90	250	213	85	6	70-130/30
103-65-1	n-Propylbenzene	ND		250	252	101	250	235	94	7	70-130/30
100-42-5	Styrene	ND		250	291	116	250	264	106	10	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	329	132* [a]	250	300	120	9	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	280	112	250	254	102	10	70-130/30
127-18-4	Tetrachloroethene	ND		250	295	118	250	274	110	7	70-130/30
108-88-3	Toluene	ND		250	256	102	250	235	94	9	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	250	100	250	237	95	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	258	103	250	239	96	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	278	111	250	250	100	11	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	255	102	250	224	90	13	70-130/30
79-01-6	Trichloroethene	ND		250	255	102	250	231	92	10	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	266	106	250	238	95	11	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	255	102	250	236	94	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	277	111	250	257	103	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	277	111	250	258	103	7	70-130/30
108-05-4	Vinyl Acetate	ND		250	255	102	250	234	94	9	70-130/30
75-01-4	Vinyl chloride	ND		250	211	84	250	198	79	6	70-130/30
	m,p-Xylene	ND		500	584	117	500	535	107	9	70-130/30
95-47-6	o-Xylene	ND		250	289	116	250	267	107	8	70-130/30
1330-20-7	Xylene (total)	ND		750	873	116	750	802	107	8	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19724-1, MC19724-6

CAS No.	Surrogate Recoveries	MS	MSD	MC19922-1	Limits
1868-53-7	Dibromofluoromethane	93%	96%	89%	70-130%
2037-26-5	Toluene-D8	102%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2003-CC1993	**Injection Date:**	04/20/13
Lab File ID:	H60576.D	**Injection Time:**	11:38
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	206783	8.70	291185	9.57	126113	12.83	161897	15.39	44462	6.27
Upper Limit [a]	413566	9.20	582370	10.07	252226	13.33	323794	15.89	88924	6.77
Lower Limit [b]	103392	8.20	145593	9.07	63057	12.33	80949	14.89	22231	5.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2003-BS	203004	8.70	289060	9.57	126211	12.83	157390	15.39	42479	6.27
MSH2003-MB	185208	8.70	256543	9.57	106576	12.83	131041	15.40	37759	6.28
ZZZZZZ	175579	8.70	238634	9.57	98939	12.83	119034	15.40	33288	6.28
MC19724-5	170754	8.71	242923	9.57	99220	12.83	116397	15.40	33677	6.28
ZZZZZZ	166781	8.70	223337	9.57	93100	12.83	110339	15.40	32563	6.28
ZZZZZZ	160052	8.70	218085	9.57	91698	12.83	107539	15.40	32094	6.28
ZZZZZZ	157989	8.70	221754	9.57	90785	12.83	105387	15.40	31997	6.28
ZZZZZZ	153724	8.70	227919	9.57	89980	12.83	103593	15.40	30062	6.28
ZZZZZZ	146820	8.70	219312	9.57	86661	12.83	106900	15.40	29882	6.28
ZZZZZZ	147805	8.70	217597	9.57	83992	12.83	100017	15.40	29869	6.28
MC19724-5MS	155200	8.70	223290	9.57	99688	12.83	129664	15.40	31592	6.28
MC19724-5MSD	160947	8.70	231883	9.57	102713	12.83	131329	15.40	33485	6.27
ZZZZZZ	173898	8.70	274570	9.58	108576	12.83	145369	15.39	50776	6.27
MC19724-2	189758	8.70	276843	9.57	107192	12.83	124341	15.40	39096	6.28
MC19724-3	182820	8.70	265614	9.57	102353	12.83	121131	15.40	38433	6.28
MC19724-4	169881	8.70	247855	9.57	98504	12.83	118643	15.40	35469	6.29
ZZZZZZ	173367	8.70	261889	9.57	102412	12.83	119898	15.40	35840	6.28
ZZZZZZ	164653	8.70	236286	9.57	94868	12.83	113340	15.40	32071	6.27
ZZZZZZ	157482	8.70	215491	9.57	92249	12.83	108515	15.40	31989	6.28
ZZZZZZ	158349	8.70	214989	9.57	89560	12.83	105992	15.40	32530	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2004-CC1993	**Injection Date:**	04/21/13
Lab File ID:	H60608.D	**Injection Time:**	08:24
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	154965	8.70	218326	9.57	99937	12.83	129958	15.39	29574	6.28
Upper Limit [a]	309930	9.20	436652	10.07	199874	13.33	259916	15.89	59148	6.78
Lower Limit [b]	77483	8.20	109163	9.07	49969	12.33	64979	14.89	14787	5.78
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2004-BS	163020	8.70	229494	9.57	104143	12.83	133312	15.39	33441	6.27
MSH2004-MB	145550	8.70	197728	9.57	84013	12.83	101252	15.40	29106	6.28
ZZZZZZ	147365	8.70	203260	9.57	87132	12.83	102479	15.40	27781	6.29
ZZZZZZ	144580	8.70	194111	9.57	83290	12.83	97794	15.40	27275	6.28
ZZZZZZ	141022	8.70	189693	9.57	82031	12.83	98340	15.40	27036	6.27
ZZZZZZ	142710	8.70	190282	9.57	81102	12.83	96563	15.40	25281	6.28
ZZZZZZ	145496	8.70	194678	9.57	82263	12.83	100439	15.40	28858	6.28
MC19900-13	142470	8.70	192688	9.57	82532	12.83	99547	15.40	27747	6.28
ZZZZZZ	138544	8.70	188517	9.57	80004	12.83	91400	15.40	27888	6.29
ZZZZZZ	143120	8.70	198907	9.57	82208	12.83	101868	15.39	27880	6.28
ZZZZZZ	156028	8.70	212661	9.56	91569	12.83	119347	15.39	28890	6.28
ZZZZZZ	173931	8.70	233175	9.57	97601	12.83	123210	15.40	35917	6.28
MC19900-13MS	189888	8.70	268508	9.57	114380	12.83	148674	15.39	37942	6.27
MC19900-13MSD	193472	8.70	271159	9.57	117784	12.83	151552	15.39	38346	6.28
ZZZZZZ	175882	8.70	246929	9.57	98499	12.83	119937	15.40	34796	6.27
ZZZZZZ	181038	8.70	259902	9.57	101898	12.83	119582	15.40	36324	6.28
MC19724-1 [c]	168624	8.70	230539	9.57	94123	12.83	111269	15.40	33289	6.28
ZZZZZZ	159092	8.70	226057	9.57	89699	12.83	104812	15.40	31168	6.28
ZZZZZZ	150930	8.70	216411	9.57	86931	12.83	100037	15.40	28783	6.28
ZZZZZZ	145114	8.70	217266	9.57	84982	12.83	95656	15.40	27874	6.27
ZZZZZZ	145551	8.70	207135	9.57	84782	12.83	100392	15.40	27657	6.27
ZZZZZZ	138148	8.70	196399	9.57	79531	12.83	94309	15.40	26066	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Volatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2005-CC1993	**Injection Date:**	04/22/13
Lab File ID:	H60638.D	**Injection Time:**	08:42
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145518	8.70	203839	9.57	92365	12.82	122447	15.39	25920	6.27
Upper Limit [a]	291036	9.20	407678	10.07	184730	13.32	244894	15.89	51840	6.77
Lower Limit [b]	72759	8.20	101920	9.07	46183	12.32	61224	14.89	12960	5.77
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2005-BS	153131	8.70	210431	9.57	97000	12.82	124939	15.39	29597	6.27
MSH2005-MB	141357	8.70	190495	9.57	79390	12.83	97297	15.40	27529	6.28
ZZZZZZ	145372	8.70	194657	9.57	82893	12.82	97308	15.40	28465	6.27
ZZZZZZ	136877	8.70	185060	9.57	78268	12.83	93270	15.40	25790	6.28
ZZZZZZ	140480	8.70	184085	9.57	79168	12.83	102070	15.39	26872	6.28
ZZZZZZ	151215	8.70	205268	9.57	84612	12.83	112538	15.39	30302	6.28
MC19724-6	145544	8.70	190398	9.57	82699	12.83	96284	15.40	25141	6.28
ZZZZZZ	146421	8.70	207407	9.56	83715	12.83	105266	15.39	26809	6.27
MC19724-1	77186	8.70	103196	9.57	43628[c]	12.82	51114[c]	15.39	13455	6.28
ZZZZZZ	137069	8.70	186849	9.57	80208	12.83	101333	15.40	28083	6.28
ZZZZZZ	139308	8.70	192444	9.57	79270	12.83	94053	15.40	26423	6.28
ZZZZZZ	137830	8.70	187984	9.57	78530	12.83	94049	15.40	27423	6.28
ZZZZZZ	133472	8.70	185664	9.57	77724	12.83	92782	15.40	26452	6.27
MC19922-1MS	142688	8.70	195289	9.57	89389	12.82	119300	15.39	27185	6.27
MC19922-1MSD	147065	8.70	202105	9.57	90566	12.83	118534	15.39	27790	6.27
MC19922-1	145886	8.70	197741	9.57	83263	12.83	102309	15.39	29211	6.27
ZZZZZZ	141347	8.70	190076	9.57	79817	12.83	96540	15.39	27936	6.28
ZZZZZZ	134414	8.70	178829	9.57	75395	12.83	86839	15.40	25563	6.28
ZZZZZZ	135303	8.70	177608	9.57	77080	12.83	86755	15.40	26425	6.27
ZZZZZZ	133099	8.70	178493	9.57	76610	12.83	88204	15.40	27318	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19724-1	H60627.D	88	99	113
MC19724-1	H60651.D	89	98	112
MC19724-2	H60594.D	84	96	113
MC19724-3	H60595.D	84	97	114
MC19724-4	H60596.D	87	99	111
MC19724-5	H60582.D	89	100	112
MC19724-6	H60649.D	88	103	115
MC19724-5MS	H60589.D	98	99	105
MC19724-5MSD	H60590.D	96	99	107
MC19922-1MS	H60656.D	93	102	105
MC19922-1MSD	H60657.D	96	99	105
MSH2003-BS	H60577.D	93	100	107
MSH2003-MB	H60579.D	86	102	109
MSH2005-BS	H60639.D	94	101	104
MSH2005-MB	H60642.D	89	103	113

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MB	U13643.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MB	U13643.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	3.5	5.0	0.51	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	88%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-MB	I82661.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19724-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	76%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MB	I82727.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	15-110%
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-BS	U13644.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.6	36	30-130
95-57-8	2-Chlorophenol	100	97.4	97	30-130
59-50-7	4-Chloro-3-methyl phenol	100	111	111	30-130
120-83-2	2,4-Dichlorophenol	100	113	113	30-130
105-67-9	2,4-Dimethylphenol	100	109	109	30-130
51-28-5	2,4-Dinitrophenol	100	149	149* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	100	136	136* [a]	30-130
95-48-7	2-Methylphenol	100	85.3	85	30-130
	3&4-Methylphenol	200	170	85	30-130
88-75-5	2-Nitrophenol	100	111	111	30-130
100-02-7	4-Nitrophenol	100	41.2	41	30-130
87-86-5	Pentachlorophenol	100	106	106	30-130
108-95-2	Phenol	100	43.2	43	30-130
95-95-4	2,4,5-Trichlorophenol	100	114	114	30-130
88-06-2	2,4,6-Trichlorophenol	100	112	112	30-130
62-53-3	Aniline	50	22.6	45	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.0	88	40-140
85-68-7	Butyl benzyl phthalate	50	32.5	65	40-140
100-51-6	Benzyl Alcohol	50	38.2	76	40-140
91-58-7	2-Chloronaphthalene	100	70.6	71	40-140
106-47-8	4-Chloroaniline	50	35.5	71	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	43.3	87	40-140
111-44-4	bis(2-Chloroethyl)ether	50	68.4	137	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	46.8	94	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.6	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	42.0	84	40-140
121-14-2	2,4-Dinitrotoluene	100	85.3	85	40-140
606-20-2	2,6-Dinitrotoluene	100	78.1	78	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.7	11* [b]	40-140
132-64-9	Dibenzofuran	50	42.5	85	40-140
84-74-2	Di-n-butyl phthalate	50	39.1	78	40-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	40-140
84-66-2	Diethyl phthalate	50	41.5	83	40-140
131-11-3	Dimethyl phthalate	50	15.2	30* [b]	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	45.0	90	40-140
118-74-1	Hexachlorobenzene	100	84.4	84	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-BS	U13644.D	1	04/16/13	NS	04/15/13	OP32661	MSU690

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	100	39.6	40	40-140
67-72-1	Hexachloroethane	100	57.4	57	40-140
78-59-1	Isophorone	100	83.2	83	40-140
88-74-4	2-Nitroaniline	50	44.0	88	40-140
99-09-2	3-Nitroaniline	50	35.0	70	40-140
100-01-6	4-Nitroaniline	50	40.4	81	40-140
98-95-3	Nitrobenzene	100	80.9	81	40-140
62-75-9	n-Nitrosodimethylamine	50	26.8	54	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	42.5	85	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.7	85	40-140
110-86-1	Pyridine	50	20.5	41	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	15-110%
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	83%	30-130%
1718-51-0	Terphenyl-d14	86%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.5	36	30-130
95-57-8	2-Chlorophenol	100	108	108	30-130
59-50-7	4-Chloro-3-methyl phenol	100	113	113	30-130
120-83-2	2,4-Dichlorophenol	100	120	120	30-130
105-67-9	2,4-Dimethylphenol	100	110	110	30-130
51-28-5	2,4-Dinitrophenol	100	119	119	30-130
534-52-1	4,6-Dinitro-o-cresol	100	127	127	30-130
95-48-7	2-Methylphenol	100	90.0	90	30-130
	3&4-Methylphenol	200	183	92	30-130
88-75-5	2-Nitrophenol	100	123	123	30-130
100-02-7	4-Nitrophenol	100	59.8	60	30-130
87-86-5	Pentachlorophenol	100	125	125	30-130
108-95-2	Phenol	100	56.2	56	30-130
95-95-4	2,4,5-Trichlorophenol	100	130	130	30-130
88-06-2	2,4,6-Trichlorophenol	100	126	126	30-130
62-53-3	Aniline	50	19.9	40	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.9	92	40-140
85-68-7	Butyl benzyl phthalate	50	46.0	92	40-140
100-51-6	Benzyl Alcohol	50	28.2	56	40-140
91-58-7	2-Chloronaphthalene	50	46.6	93	40-140
106-47-8	4-Chloroaniline	50	32.1	64	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	45.6	91	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.7	85	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	51.9	104	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.9	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.8	92	40-140
121-14-2	2,4-Dinitrotoluene	50	47.2	94	40-140
606-20-2	2,6-Dinitrotoluene	50	50.3	101	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.9	12* [a]	40-140
132-64-9	Dibenzofuran	50	44.3	89	40-140
84-74-2	Di-n-butyl phthalate	50	46.2	92	40-140
117-84-0	Di-n-octyl phthalate	50	52.3	105	40-140
84-66-2	Diethyl phthalate	50	44.8	90	40-140
131-11-3	Dimethyl phthalate	50	33.3	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.4	97	40-140
118-74-1	Hexachlorobenzene	50	46.8	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	17.7	35* [a]	40-140
67-72-1	Hexachloroethane	50	38.5	77	40-140
78-59-1	Isophorone	50	49.0	98	40-140
88-74-4	2-Nitroaniline	50	47.8	96	40-140
99-09-2	3-Nitroaniline	50	35.6	71	40-140
100-01-6	4-Nitroaniline	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	44.7	89	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	48.2	96	40-140
86-30-6	N-Nitrosodiphenylamine	50	45.4	91	40-140
110-86-1	Pyridine	50	21.8	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	15-110%
4165-62-2	Phenol-d5	38%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	93%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-BS	I82662.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19724-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	40.1	80	40-140
208-96-8	Acenaphthylene	50	31.9	64	40-140
120-12-7	Anthracene	50	41.7	83	40-140
56-55-3	Benzo(a)anthracene	50	43.4	87	40-140
50-32-8	Benzo(a)pyrene	50	38.4	77	40-140
205-99-2	Benzo(b)fluoranthene	50	42.2	84	40-140
191-24-2	Benzo(g,h,i)perylene	50	47.6	95	40-140
207-08-9	Benzo(k)fluoranthene	50	42.5	85	40-140
218-01-9	Chrysene	50	41.5	83	40-140
53-70-3	Dibenzo(a,h)anthracene	50	42.0	84	40-140
206-44-0	Fluoranthene	50	43.2	86	40-140
86-73-7	Fluorene	50	37.7	75	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.2	82	40-140
90-12-0	1-Methylnaphthalene	50	38.5	77	40-140
91-57-6	2-Methylnaphthalene	50	37.0	74	40-140
85-01-8	Phenanthrene	50	41.8	84	40-140
129-00-0	Pyrene	50	42.8	86	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	83%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-BS	I82728.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	31.2	62	40-140
120-12-7	Anthracene	50	40.8	82	40-140
56-55-3	Benzo(a)anthracene	50	41.3	83	40-140
50-32-8	Benzo(a)pyrene	50	36.5	73	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	40-140
207-08-9	Benzo(k)fluoranthene	50	42.4	85	40-140
218-01-9	Chrysene	50	39.4	79	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.3	81	40-140
206-44-0	Fluoranthene	50	41.3	83	40-140
86-73-7	Fluorene	50	37.2	74	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	40-140
90-12-0	1-Methylnaphthalene	50	38.4	77	40-140
91-57-6	2-Methylnaphthalene	50	37.8	76	40-140
85-01-8	Phenanthrene	50	40.6	81	40-140
129-00-0	Pyrene	50	40.8	82	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	81%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MS	U13645.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
OP32661-MSD	U13646.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
MC19724-5	U13718.D	1	04/19/13	NS	04/15/13	OP32661	MSU694

The QC reported here applies to the following samples: Method: SW846 8270C

MC19724-5

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		111	59.9	54	111	62.5	56	4	30-130/20
95-57-8	2-Chlorophenol	ND		111	110	99	111	105	95	5	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		111	130	117	111	126	113	3	30-130/20
120-83-2	2,4-Dichlorophenol	ND		111	128	115	111	125	113	2	30-130/20
105-67-9	2,4-Dimethylphenol	ND		111	124	112	111	113	102	9	30-130/20
51-28-5	2,4-Dinitrophenol	ND		111	173	156* [a]	111	170	153* [a]	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		111	155	140* [a]	111	158	142* [a]	2	30-130/20
95-48-7	2-Methylphenol	ND		111	110	99	111	96.9	87	13	30-130/20
	3&4-Methylphenol	ND		111	224	112	222	193	87	15	30-130/20
88-75-5	2-Nitrophenol	ND		111	125	113	111	126	113	1	30-130/20
100-02-7	4-Nitrophenol	ND		111	54.1	49	111	51.3	46	5	30-130/20
87-86-5	Pentachlorophenol	ND		111	124	112	111	111	100	11	30-130/20
108-95-2	Phenol	ND		111	63.6	57	111	49.7	45	25* [b]	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		111	130	117	111	134	121	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		111	129	116	111	127	114	2	30-130/20
62-53-3	Aniline	ND		55.6	22.0	40	55.6	21.2	38* [c]	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		55.6	45.5	82	55.6	44.5	80	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		55.6	48.0	86	55.6	46.0	83	4	40-140/20
100-51-6	Benzyl Alcohol	ND		55.6	37.3	67	55.6	34.6	62	8	40-140/20
91-58-7	2-Chloronaphthalene	ND		111	77.4	70	111	77.3	70	0	40-140/20
106-47-8	4-Chloroaniline	ND		55.6	35.4	64	55.6	35.2	63	1	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		55.6	46.8	84	55.6	44.8	81	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		55.6	76.4	138	55.6	70.4	127	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		55.6	48.6	87	55.6	46.6	84	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		55.6	45.8	82	55.6	44.7	80	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		55.6	43.9	79	55.6	45.8	82	4	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		111	92.2	83	111	92.9	84	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		111	84.5	76	111	83.4	75	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		55.6	5.5	10* [c]	55.6	5.5	10* [c]	0	40-140/20
132-64-9	Dibenzofuran	ND		55.6	45.1	81	55.6	45.3	82	0	40-140/20
84-74-2	Di-n-butyl phthalate	ND		55.6	44.3	80	55.6	46.1	83	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		55.6	46.7	84	55.6	46.2	83	1	40-140/20
84-66-2	Diethyl phthalate	ND		55.6	47.3	85	55.6	48.4	87	2	40-140/20
131-11-3	Dimethyl phthalate	ND		55.6	46.4	84	55.6	41.5	75	11	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		55.6	43.8	79	55.6	43.7	79	0	40-140/20
118-74-1	Hexachlorobenzene	ND		111	87.1	78	111	87.6	79	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32661-MS	U13645.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
OP32661-MSD	U13646.D	1	04/16/13	NS	04/15/13	OP32661	MSU690
MC19724-5	U13718.D	1	04/19/13	NS	04/15/13	OP32661	MSU694

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-5

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		111	47.5	43	111	40.2	36* c	17	40-140/20
67-72-1	Hexachloroethane	ND		111	65.0	59	111	60.8	55	7	40-140/20
78-59-1	Isophorone	ND		111	91.4	82	111	91.4	82	0	40-140/20
88-74-4	2-Nitroaniline	ND		55.6	48.6	87	55.6	46.4	84	5	40-140/20
99-09-2	3-Nitroaniline	ND		55.6	38.4	69	55.6	38.8	70	1	40-140/20
100-01-6	4-Nitroaniline	ND		55.6	43.2	78	55.6	41.9	75	3	40-140/20
98-95-3	Nitrobenzene	ND		111	89.7	81	111	87.3	79	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		55.6	30.2	54	55.6	27.9	50	8	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		55.6	43.9	79	55.6	43.3	78	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		55.6	43.6	78	55.6	45.3	82	4	40-140/20
110-86-1	Pyridine	ND		55.6	21.5	39* c	55.6	21.0	38* c	2	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
367-12-4	2-Fluorophenol	48%	45%	40%	15-110%
4165-62-2	Phenol-d5	43%	33%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	86%	80%	15-110%
4165-60-0	Nitrobenzene-d5	81%	78%	75%	30-130%
321-60-8	2-Fluorobiphenyl	78%	76%	72%	30-130%
1718-51-0	Terphenyl-d14	71%	71%	69%	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	60.7	61	100	59.1	59	3	30-130/20
95-57-8	2-Chlorophenol	ND		100	111	111	100	112	112	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	119	119	100	117	117	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	126	126	100	125	125	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	113	113	100	114	114	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	128	128	100	123	123	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	136	136* [a]	100	135	135* [a]	1	30-130/20
95-48-7	2-Methylphenol	ND		100	91.3	91	100	92.1	92	1	30-130/20
	3&4-Methylphenol	ND		200	189	95	200	185	93	2	30-130/20
88-75-5	2-Nitrophenol	ND		100	130	130	100	131	131* [a]	1	30-130/20
100-02-7	4-Nitrophenol	ND		100	60.9	61	100	60.6	61	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	138	138* [a]	100	131	131* [a]	5	30-130/20
108-95-2	Phenol	2.7	J	100	52.1	49	100	52.5	50	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	137	137* [a]	100	134	134* [a]	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	134	134* [a]	100	130	130	3	30-130/20
62-53-3	Aniline	ND		50	21.8	44	50	23.2	46	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.8	94	50	46.2	92	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	48.3	97	50	47.2	94	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	29.3	59	50	31.4	63	7	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.9	96	50	47.7	95	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	30.6	61	50	29.7	59	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.6	91	50	45.6	91	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.7	85	50	44.6	89	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	52.1	104	50	51.9	104	0	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	47.3	95	50	46.8	94	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	47.2	94	50	47.8	96	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	47.8	96	50	47.4	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	50.5	101	50	50.6	101	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	5.7	11* [b]	50	6.0	12* [b]	5	40-140/20
132-64-9	Dibenzofuran	ND		50	45.4	91	50	44.4	89	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	47.1	94	50	46.2	92	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.1	108	50	52.5	105	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	46.0	92	50	45.2	90	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	37.5	75	50	35.4	71	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	3.1		50	49.8	93	50	48.8	91	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.9	98	50	48.0	96	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	19.2	38* [b]	50	18.4	37* [b]	4	40-140/20
67-72-1	Hexachloroethane	ND		50	40.2	80	50	42.2	84	5	40-140/20
78-59-1	Isophorone	ND		50	49.2	98	50	49.8	100	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	48.3	97	50	48.4	97	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	32.1	64	50	32.7	65	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.5	85	50	43.4	87	2	40-140/20
98-95-3	Nitrobenzene	ND		50	45.1	90	50	47.0	94	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.7	55	50	28.3	57	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.9	96	50	48.3	97	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.1	94	50	46.1	92	2	40-140/20
110-86-1	Pyridine	ND		50	21.9	44	50	21.2	42	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-2	Limits
367-12-4	2-Fluorophenol	52%	53%	49%	15-110%
4165-62-2	Phenol-d5	35%	35%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	95%	95%	98%	15-110%
4165-60-0	Nitrobenzene-d5	93%	95%	89%	30-130%
321-60-8	2-Fluorobiphenyl	91%	92%	87%	30-130%
1718-51-0	Terphenyl-d14	91%	93%	93%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32662-MS	I82663.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
OP32662-MSD	I82664.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073
MC19724-5	I82672.D	1	04/17/13	NS	04/15/13	OP32662	MSI3073

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19724-5

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		55.6	42.1	76	55.6	42.4	76	1	40-140/20
208-96-8	Acenaphthylene	ND		55.6	33.7	61	55.6	33.8	61	0	40-140/20
120-12-7	Anthracene	ND		55.6	43.9	79	55.6	43.9	79	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		55.6	43.1	78	55.6	41.0	74	5	40-140/20
50-32-8	Benzo(a)pyrene	ND		55.6	37.8	68	55.6	36.2	65	4	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		55.6	39.7	71	55.6	37.9	68	5	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		55.6	47.0	85	55.6	45.0	81	4	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		55.6	44.1	79	55.6	42.7	77	3	40-140/20
218-01-9	Chrysene	ND		55.6	41.1	74	55.6	39.3	71	4	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		55.6	41.6	75	55.6	40.1	72	4	40-140/20
206-44-0	Fluoranthene	ND		55.6	44.4	80	55.6	43.5	78	2	40-140/20
86-73-7	Fluorene	ND		55.6	39.8	72	55.6	40.3	73	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		55.6	41.0	74	55.6	39.4	71	4	40-140/20
90-12-0	1-Methylnaphthalene	ND		55.6	41.2	74	55.6	40.4	73	2	40-140/20
91-57-6	2-Methylnaphthalene	ND		55.6	40.3	73	55.6	39.0	70	3	40-140/20
85-01-8	Phenanthrene	ND		55.6	44.2	80	55.6	44.4	80	0	40-140/20
129-00-0	Pyrene	ND		55.6	43.9	79	55.6	42.8	77	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
4165-60-0	Nitrobenzene-d5	79%	75%	71%	30-130%
321-60-8	2-Fluorobiphenyl	72%	69%	70%	30-130%
1718-51-0	Terphenyl-d14	71%	69%	70%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MS	I82729.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
OP32682-MSD	I82730.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
MC19800-3	I82731.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

MC19724-1, MC19724-2, MC19724-3, MC19724-4

CAS No.	Compound	MC19800-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	39.9	80	50	40.1	80	1	40-140/20
208-96-8	Acenaphthylene	ND		50	31.6	63	50	31.8	64	1	40-140/20
120-12-7	Anthracene	ND		50	41.3	83	50	41.2	82	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	41.8	84	50	41.9	84	0	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	36.8	74	50	37.2	74	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	38.3	77	50	39.4	79	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	45.4	91	50	45.9	92	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	43.6	87	50	42.5	85	3	40-140/20
218-01-9	Chrysene	ND		50	40.4	81	50	39.9	80	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	40.3	81	50	40.6	81	1	40-140/20
206-44-0	Fluoranthene	ND		50	41.9	84	50	41.7	83	0	40-140/20
86-73-7	Fluorene	ND		50	37.6	75	50	37.4	75	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	39.8	80	50	40.0	80	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	40.0	80	50	39.9	80	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.3	79	50	39.2	78	0	40-140/20
85-01-8	Phenanthrene	ND		50	41.4	83	50	41.1	82	1	40-140/20
129-00-0	Pyrene	ND		50	41.7	83	50	41.5	83	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-3	Limits
367-12-4	2-Fluorophenol	49%	49%	44%	15-110%
4165-62-2	Phenol-d5	31%	32%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	80%	78%	15-110%
4165-60-0	Nitrobenzene-d5	80%	79%	77%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	78%	30-130%
1718-51-0	Terphenyl-d14	80%	82%	81%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2952-CC2937	**Injection Date:**	04/19/13
Lab File ID:	F63169.D	**Injection Time:**	08:03
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	26965	4.06	100596	5.05	64690	6.49	121165	7.84	140401	10.63	125531	12.10
Upper Limit [a]	53930	4.56	201192	5.55	129380	6.99	242330	8.34	280802	11.13	251062	12.60
Lower Limit [b]	13483	3.56	50298	4.55	32345	5.99	60583	7.34	70201	10.13	62766	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32681-MB	21226	4.06	79894	5.05	51442	6.49	95555	7.84	108323	10.62	100710	12.10
OP32681-BS	21277	4.06	80083	5.06	51007	6.49	96593	7.85	109464	10.63	101150	12.10
OP32681-MS	21834	4.06	81093	5.05	51106	6.49	95945	7.85	107570	10.63	97193	12.10
OP32681-MSD	19466	4.06	73354	5.05	46863	6.49	88333	7.84	99932	10.63	91498	12.10
MC19800-2	18953	4.06	72238	5.05	46161	6.49	85827	7.84	96461	10.62	91108	12.09
ZZZZZZ	18531	4.06	71378	5.05	45366	6.49	82508	7.84	98329	10.62	93986	12.10
ZZZZZZ	20715	4.06	76937	5.05	48376	6.49	86774	7.84	107848	10.62	101918	12.10
MC19724-1	20319	4.06	77713	5.05	49940	6.49	93335	7.84	107821	10.63	102870	12.10
MC19724-2	20374	4.06	74799	5.05	48121	6.49	88844	7.84	101827	10.62	98665	12.10
MC19724-3	23166	4.06	85839	5.05	54949	6.49	102196	7.84	115402	10.62	110980	12.10
MC19724-4	19637	4.06	74741	5.05	46722	6.49	86792	7.84	98279	10.62	88652	12.10
ZZZZZZ	17899	4.06	67412	5.05	42872	6.49	78035	7.84	89138	10.62	81087	12.10
ZZZZZZ	18353	4.06	69053	5.05	44757	6.49	79546	7.84	91283	10.62	84577	12.10
ZZZZZZ	19039	4.06	67789	5.05	42435	6.49	75658	7.84	92757	10.63	90851	12.10
ZZZZZZ	17484	4.06	65541	5.05	41935	6.49	75092	7.84	85083	10.62	78046	12.10
ZZZZZZ	16753	4.06	64226	5.05	40927	6.49	74940	7.84	85678	10.62	79138	12.10
ZZZZZZ	21424	4.06	78351	5.05	47525	6.49	87765	7.84	100055	10.62	92231	12.10
ZZZZZZ	14882	4.06	56289	5.05	36520	6.49	66449	7.84	76983	10.62	71026	12.09
ZZZZZZ	17836	4.06	66536	5.05	41919	6.49	76671	7.84	88686	10.62	81904	12.10
ZZZZZZ	17739	4.06	67482	5.05	42611	6.49	79842	7.84	91406	10.62	85552	12.09
ZZZZZZ	16939	4.06	63790	5.05	41000	6.49	74543	7.84	86084	10.62	79340	12.10
ZZZZZZ	19408	4.06	70122	5.05	42447	6.49	77859	7.84	92969	10.62	85770	12.09
ZZZZZZ	18126	4.06	67802	5.05	43620	6.49	77842	7.84	87315	10.63	81870	12.10
ZZZZZZ	16406	4.06	62419	5.05	39403	6.49	72880	7.84	84791	10.62	75333	12.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2955-CC2937	**Injection Date:**	04/23/13
Lab File ID:	F63268.D	**Injection Time:**	08:25
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	30601	4.04	120229	5.04	78200	6.47	151840	7.82	177124	10.61	164040	12.08
Upper Limit [a]	61202	4.54	240458	5.54	156400	6.97	303680	8.32	354248	11.11	328080	12.58
Lower Limit [b]	15301	3.54	60115	4.54	39100	5.97	75920	7.32	88562	10.11	82020	11.58
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
ZZZZZZ	21368	4.05	81483	5.03	52879	6.47	99435	7.82	119424	10.60	110565	12.07
ZZZZZZ	22262	4.04	85798	5.04	55473	6.47	104511	7.82	127595	10.60	119464	12.07
ZZZZZZ	21485	4.04	82122	5.03	53522	6.47	98152	7.82	113172	10.60	106726	12.07
ZZZZZZ	19985	4.04	77547	5.03	50809	6.47	96854	7.82	111678	10.60	104837	12.07
MC19724-2	21327	4.04	80000	5.03	52503	6.47	99818	7.82	119862	10.60	111956	12.07
OP32727-MB	20489	4.04	79917	5.03	53016	6.47	100453	7.82	118991	10.60	107329	12.07
OP32727-BS	20413	4.04	78984	5.03	50853	6.47	96864	7.82	115337	10.60	105891	12.07
ZZZZZZ	21175	4.04	82490	5.03	54088	6.47	100954	7.82	119118	10.60	112149	12.07
MC19724-3	21998	4.04	82080	5.03	54954	6.47	103948	7.81	124053	10.60	116117	12.07
MC19724-4	23311	4.04	89069	5.03	57718	6.47	110366	7.82	133025	10.60	123320	12.07
ZZZZZZ	25349	4.04	99742	5.03	63925	6.47	118991	7.82	142916	10.60	125024	12.07
ZZZZZZ	25741	4.04	100971	5.03	65718	6.47	120885	7.82	144606	10.60	116897	12.07

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3073-CC3044	**Injection Date:**	04/17/13
Lab File ID:	I82650.D	**Injection Time:**	11:14
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	161691	3.38	403297	4.35	212742	5.75	395919	6.98	312782	9.71	595569	11.10
Upper Limit [a]	323382	3.88	806594	4.85	425484	6.25	791838	7.48	625564	10.21	1191138	11.60
Lower Limit [b]	80846	2.88	201649	3.85	106371	5.25	197960	6.48	156391	9.21	297785	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	160010	3.38	400853	4.35	198393	5.74	352459	6.98	289010	9.70	563391	11.10
ZZZZZZ	161140	3.38	410909	4.35	205325	5.75	355306	6.98	289435	9.70	579053	11.10
ZZZZZZ	143875	3.38	360086	4.35	182299	5.74	313021	6.98	254154	9.70	511088	11.10
ZZZZZZ	153897	3.38	384039	4.35	190079	5.74	330733	6.98	265844	9.70	539459	11.10
ZZZZZZ	183846	3.38	462997	4.35	229299	5.75	395405	6.98	321054	9.70	625017	11.10
ZZZZZZ	180808	3.38	454862	4.35	224413	5.75	383919	6.98	310479	9.71	611222	11.10
ZZZZZZ	174676	3.38	442617	4.35	221227	5.74	374801	6.98	306217	9.70	604830	11.10
ZZZZZZ	178743	3.38	456297	4.35	225767	5.75	388827	6.98	322372	9.71	638290	11.10
ZZZZZZ	167563	3.38	422715	4.35	209636	5.75	364355	6.98	294498	9.71	594571	11.10
ZZZZZZ	169246	3.38	436104	4.35	217295	5.75	380575	6.98	305190	9.70	596562	11.10
OP32662-MB	138394	3.38	356731	4.35	181532	5.74	320617	6.98	257712	9.70	507428	11.10
OP32662-BS	134106	3.38	343680	4.35	174040	5.75	311263	6.99	241069	9.71	471892	11.10
OP32662-MS	143514	3.38	361285	4.35	184172	5.75	325840	6.99	254321	9.71	501119	11.10
OP32662-MSD	138315	3.39	352582	4.35	177424	5.75	315624	6.99	237211	9.71	468515	11.10
ZZZZZZ	153647	3.38	390060	4.35	196096	5.75	334665	6.98	269649	9.70	523763	11.10
ZZZZZZ	145657	3.38	364738	4.35	186238	5.74	319731	6.98	260071	9.71	519633	11.10
ZZZZZZ	139969	3.38	363956	4.35	179249	5.74	314893	6.98	254272	9.70	509762	11.10
ZZZZZZ	139674	3.38	360541	4.35	181023	5.74	315843	6.98	248342	9.70	497651	11.10
ZZZZZZ	128652	3.39	326386	4.35	169502	5.74	306694	6.98	251024	9.70	492438	11.10
ZZZZZZ	138100	3.38	353628	4.35	177568	5.75	313001	6.98	252231	9.70	502923	11.10
ZZZZZZ	132264	3.38	335882	4.35	169221	5.74	299907	6.98	244456	9.70	481518	11.10
MC19724-5	135413	3.38	354836	4.35	179686	5.74	313578	6.98	252009	9.70	487416	11.10
ZZZZZZ	124258	3.38	321569	4.35	163812	5.75	292375	6.98	237448	9.70	458461	11.10
ZZZZZZ	139500	3.38	357182	4.35	178648	5.75	312774	6.98	252452	9.70	493423	11.10
ZZZZZZ	111704	3.38	287193	4.35	145323	5.74	260957	6.98	212249	9.70	417710	11.09
ZZZZZZ	131553	3.38	333743	4.35	172494	5.75	311578	6.98	248770	9.70	488876	11.10
ZZZZZZ	130612	3.38	333835	4.35	168927	5.74	290183	6.98	235554	9.70	459422	11.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3073-CC3044	**Injection Date:**	04/17/13
Lab File ID:	I82650.D	**Injection Time:**	11:14
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	179692	3.39	460156	4.35	237134	5.75	434209	6.98	344879	9.71	639898	11.10
Upper Limit [a]	359384	3.89	920312	4.85	474268	6.25	868418	7.48	689758	10.21	1279796	11.60
Lower Limit [b]	89846	2.89	230078	3.85	118567	5.25	217105	6.48	172440	9.21	319949	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32693-MB	139424	3.38	358365	4.35	182528	5.75	318374	6.98	250282	9.70	486696	11.10
OP32693-BS	139690	3.38	355246	4.35	183610	5.75	323862	6.99	256817	9.71	499776	11.10
OP32693-MS	130368	3.38	333129	4.35	171280	5.75	301573	6.98	237538	9.71	463846	11.10
OP32693-MSD	125331	3.38	320948	4.35	165486	5.74	297198	6.98	233451	9.70	451858	11.09
MC19800-9	144481	3.38	377139	4.35	189735	5.74	326402	6.98	266470	9.70	515316	11.09
ZZZZZZ	131278	3.38	334825	4.35	163915	5.74	287165	6.98	232011	9.70	458538	11.10
ZZZZZZ	122472	3.38	323344	4.35	167074	5.74	292322	6.98	238730	9.70	465652	11.09
OP32682-MB	148798	3.38	379002	4.35	194285	5.74	343460	6.98	278659	9.70	542303	11.09
OP32682-BS	153296	3.39	386293	4.35	198122	5.75	354075	6.99	274577	9.71	521264	11.10
OP32682-MS	155723	3.39	391581	4.35	201115	5.75	357436	6.99	274726	9.71	525274	11.10
OP32682-MSD	146672	3.39	374500	4.35	193256	5.75	346963	6.99	272228	9.71	525153	11.10
MC19800-3	157230	3.38	402876	4.35	203336	5.74	358154	6.98	279045	9.70	551300	11.10
MC19724-1	150080	3.38	382672	4.35	196813	5.74	351141	6.98	283440	9.70	565244	11.09
MC19724-2	137342	3.39	341792	4.35	173991	5.74	308917	6.98	247995	9.70	490916	11.09
MC19724-3	151165	3.39	373443	4.35	189460	5.74	335217	6.98	270943	9.70	532909	11.09
MC19724-4	174567	3.39	458604	4.35	224352	5.75	394969	6.98	312619	9.71	602698	11.10
ZZZZZZ	149620	3.39	388888	4.35	201733	5.75	364947	6.98	299036	9.70	580990	11.10
ZZZZZZ	145419	3.39	372209	4.35	193062	5.75	347268	6.98	283829	9.70	562118	11.10
ZZZZZZ	154647	3.39	396581	4.35	200338	5.74	352331	6.98	283827	9.71	546027	11.10
ZZZZZZ	153832	3.38	398126	4.35	203856	5.74	358521	6.98	292968	9.70	571587	11.10
ZZZZZZ	140627	3.38	367318	4.35	183513	5.75	337924	6.98	279273	9.71	547113	11.10
ZZZZZZ	124448	3.38	327531	4.35	173742	5.74	309890	6.98	258582	9.70	503738	11.10
ZZZZZZ	144516	3.38	373750	4.35	192239	5.74	349202	6.98	292199	9.71	574680	11.10
ZZZZZZ	141757	3.38	378382	4.35	196962	5.75	359156	6.98	302709	9.70	592309	11.10
ZZZZZZ	150396	3.39	398302	4.35	206391	5.75	372293	6.98	314997	9.71	621297	11.10
ZZZZZZ	136149	3.39	356418	4.36	185150	5.75	333478	6.99	275713	9.71	529195	11.10
ZZZZZZ	142746	3.38	376341	4.35	192528	5.75	351934	6.99	292685	9.71	548493	11.11
ZZZZZZ	152229	3.38	407303	4.35	214602	5.74	380880	6.98	327110	9.71	617058	11.10
ZZZZZZ	129337	3.39	342167	4.35	182913	5.74	332736	6.98	285283	9.70	558557	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU690-CC623	**Injection Date:**	04/16/13
Lab File ID:	U13627.D	**Injection Time:**	10:15
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	104684	2.89	383260	3.85	232726	5.24	407038	6.44	418753	9.11	362458	10.63
Upper Limit [a]	209368	3.39	766520	4.35	465452	5.74	814076	6.94	837506	9.61	724916	11.13
Lower Limit [b]	52342	2.39	191630	3.35	116363	4.74	203519	5.94	209377	8.61	181229	10.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	81914	2.88	302531	3.84	184193	5.24	308442	6.43	321294	9.10	284036	10.62
ZZZZZZ	107110	2.88	398632	3.84	245578	5.24	407771	6.43	433519	9.10	375003	10.62
ZZZZZZ	72927	2.88	275962	3.84	167226	5.24	280416	6.43	299133	9.10	268621	10.62
ZZZZZZ	84487	2.88	315393	3.84	191111	5.24	329911	6.43	360759	9.10	324313	10.62
ZZZZZZ	84661	2.88	314759	3.84	190950	5.24	327018	6.43	361834	9.10	330512	10.62
ZZZZZZ	120112	2.88	443235	3.84	272489	5.24	471707	6.43	512453	9.10	472619	10.62
OP32553-MB	112897	2.88	417387	3.84	250323	5.24	432034	6.43	481840	9.10	418662	10.62
OP32553-BS	101154	2.88	364694	3.84	219826	5.24	391319	6.43	435585	9.10	391626	10.62
OP32553-MS	99026	2.88	345569	3.84	213472	5.24	382536	6.43	421357	9.10	387666	10.62
OP32553-MSD	120103	2.88	427738	3.84	262603	5.24	469526	6.43	522907	9.10	486768	10.63
MC19626-1	119849	2.88	443143	3.84	270152	5.24	467822	6.43	503444	9.10	470852	10.62
ZZZZZZ	101513	2.88	363693	3.84	219927	5.24	384081	6.43	425006	9.10	402986	10.63
ZZZZZZ	104982	2.88	377711	3.84	232696	5.24	402385	6.43	458095	9.10	429502	10.63
ZZZZZZ	97409	2.88	353565	3.84	219103	5.24	397218	6.43	443762	9.10	402828	10.63
OP32661-MB	85496	2.88	315755	3.84	191079	5.24	336981	6.43	378197	9.10	352099	10.62
OP32661-BS	95372	2.88	340933	3.85	213920	5.24	383611	6.43	431428	9.10	404922	10.63
OP32661-MS	92781	2.88	332409	3.85	205634	5.24	371214	6.43	414716	9.10	392412	10.63
OP32661-MSD	74566	2.88	262447	3.84	165063	5.24	293092	6.43	329863	9.10	310464	10.63
ZZZZZZ	103185	2.88	377644	3.84	230769	5.24	414151	6.43	464790	9.10	443436	10.63
ZZZZZZ	82416	2.88	304440	3.84	186500	5.24	331934	6.43	363899	9.10	338521	10.62
ZZZZZZ	75685	2.88	279702	3.84	180251	5.24	305460	6.43	343683	9.10	320535	10.62
ZZZZZZ	77683	2.88	285883	3.84	179354	5.24	311130	6.43	347468	9.10	328132	10.62
ZZZZZZ	77906	2.88	285107	3.84	185394	5.24	327845	6.43	364471	9.10	343343	10.62
ZZZZZZ	100687	2.88	362876	3.84	230436	5.24	395518	6.43	461344	9.10	436247	10.63
ZZZZZZ	87974	2.88	316121	3.84	197925	5.24	343687	6.43	391288	9.10	366433	10.62

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU691-CC652	**Injection Date:**	04/16/13
Lab File ID:	U13627A.D	**Injection Time:**	10:15
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	104702	2.89	381426	3.85	232726	5.24	407038	6.44	418753	9.11	362458	10.63
Upper Limit [a]	209404	3.39	762852	4.35	465452	5.74	814076	6.94	837506	9.61	724916	11.13
Lower Limit [b]	52351	2.39	190713	3.35	116363	4.74	203519	5.94	209377	8.61	181229	10.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	81914	2.88	302531	3.84	184193	5.24	308442	6.43	321294	9.10	284036	10.62
ZZZZZZ	107110	2.88	398632	3.84	245578	5.24	407771	6.43	433519	9.10	375003	10.62
ZZZZZZ	72927	2.88	275962	3.84	167226	5.24	280416	6.43	299133	9.10	268621	10.62
ZZZZZZ	84487	2.88	315393	3.84	191111	5.24	329911	6.43	360759	9.10	324313	10.62
ZZZZZZ	84661	2.88	314759	3.84	190950	5.24	327018	6.43	361834	9.10	330512	10.62
ZZZZZZ	120112	2.88	443235	3.84	272489	5.24	471707	6.43	512453	9.10	472619	10.62
OP32553-MB	112897	2.88	417387	3.84	250323	5.24	432034	6.43	481840	9.10	418662	10.62
OP32553-BS	101154	2.88	364694	3.84	219826	5.24	391319	6.43	435585	9.10	391626	10.62
OP32553-MS	99026	2.88	345569	3.84	213472	5.24	382536	6.43	421357	9.10	387666	10.62
OP32553-MSD	120103	2.88	427738	3.84	262603	5.24	469526	6.43	522907	9.10	486768	10.63
MC19626-1	119849	2.88	443143	3.84	270152	5.24	467822	6.43	503444	9.10	470852	10.62
ZZZZZZ	101513	2.88	363693	3.84	219927	5.24	384081	6.43	425006	9.10	402986	10.63
ZZZZZZ	104982	2.88	377711	3.84	232696	5.24	402385	6.43	458095	9.10	429502	10.63
ZZZZZZ	97409	2.88	353565	3.84	219103	5.24	397218	6.43	443762	9.10	402828	10.63
OP32661-MB	85496	2.88	315755	3.84	191079	5.24	336981	6.43	378197	9.10	352099	10.62
OP32661-BS	95372	2.88	340933	3.85	213920	5.24	383611	6.43	431428	9.10	404922	10.63
OP32661-MS	92781	2.88	332409	3.85	205634	5.24	371214	6.43	414716	9.10	392412	10.63
OP32661-MSD	74566	2.88	262447	3.84	165063	5.24	293092	6.43	329863	9.10	310464	10.63
ZZZZZZ	103185	2.88	377644	3.84	230769	5.24	414151	6.43	464790	9.10	443436	10.63
ZZZZZZ	82416	2.88	304440	3.84	186500	5.24	331934	6.43	363899	9.10	338521	10.62
ZZZZZZ	75685	2.88	279702	3.84	180251	5.24	305460	6.43	343683	9.10	320535	10.62
ZZZZZZ	77683	2.88	285883	3.84	179354	5.24	311130	6.43	347468	9.10	328132	10.62
ZZZZZZ	77906	2.88	285107	3.84	185394	5.24	327845	6.43	364471	9.10	343343	10.62
ZZZZZZ	100687	2.88	362876	3.84	230436	5.24	395518	6.43	461344	9.10	436247	10.63
ZZZZZZ	87974	2.88	316121	3.84	197925	5.24	343687	6.43	391288	9.10	366433	10.62

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU694-CC623	**Injection Date:**	04/19/13
Lab File ID:	U13713.D	**Injection Time:**	08:52
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	78688	2.86	284644	3.82	177789	5.21	312627	6.41	354155	9.07	329988	10.59
Upper Limit [a]	157376	3.36	569288	4.32	355578	5.71	625254	6.91	708310	9.57	659976	11.09
Lower Limit [b]	39344	2.36	142322	3.32	88895	4.71	156314	5.91	177078	8.57	164994	10.09
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
MC19778-7	114960	2.86	417546	3.82	248497	5.21	417026	6.40	463035	9.07	435771	10.59
ZZZZZZ	92258	2.86	332529	3.82	208000	5.21	332402	6.40	374401	9.07	362358	10.60
ZZZZZZ	109289	2.86	407640	3.82	236245	5.21	425151	6.40	464807	9.07	439058	10.59
ZZZZZZ	109699	2.86	397035	3.82	246280	5.21	401017	6.40	450111	9.07	425548	10.59
MC19724-5	99789	2.86	372127	3.82	229256	5.21	393273	6.40	444791	9.07	419215	10.59
ZZZZZZ	136355	2.86	504299	3.82	303757	5.21	524749	6.40	590626	9.07	552065	10.59
OP32680-MB	110194	2.86	402534	3.82	245666	5.21	426072	6.40	510366	9.06	476036	10.59
OP32680-BS	109886	2.86	389667	3.82	239609	5.21	431592	6.40	489268	9.07	452762	10.59
OP32680-MS	127255	2.86	459185	3.82	285835	5.21	502486	6.40	563829	9.07	525279	10.59
OP32680-MSD	116228	2.86	422198	3.82	256165	5.21	460479	6.40	515542	9.07	488534	10.59
MC20000-1	121906	2.86	436753	3.82	273201	5.21	465089	6.40	523559	9.06	500779	10.59
ZZZZZZ	124653	2.86	473409	3.81	283636	5.21	477147	6.40	538708	9.06	479678	10.59
ZZZZZZ	121114	2.86	443427	3.82	272306	5.21	463386	6.40	518115	9.06	490290	10.59

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU695-CC652	**Injection Date:**	04/19/13
Lab File ID:	U13713A.D	**Injection Time:**	08:52
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	78688	2.86	284644	3.82	177789	5.21	312627	6.41	354155	9.07	329988	10.59
Upper Limit [a]	157376	3.36	569288	4.32	355578	5.71	625254	6.91	708310	9.57	659976	11.09
Lower Limit [b]	39344	2.36	142322	3.32	88895	4.71	156314	5.91	177078	8.57	164994	10.09
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
MC19778-7	114960	2.86	417546	3.82	248497	5.21	417026	6.40	463035	9.07	435771	10.59
ZZZZZZ	92258	2.86	332529	3.82	208000	5.21	332402	6.40	374401	9.07	362358	10.60
ZZZZZZ	109289	2.86	407640	3.82	236245	5.21	425151	6.40	464807	9.07	439058	10.59
ZZZZZZ	109699	2.86	397035	3.82	246280	5.21	401017	6.40	450111	9.07	425548	10.59
MC19724-5	99789	2.86	372127	3.82	229256	5.21	393273	6.40	444791	9.07	419215	10.59
ZZZZZZ	136355	2.86	504299	3.82	303757	5.21	524749	6.40	590626	9.07	552065	10.59
OP32680-MB	110194	2.86	402534	3.82	245666	5.21	426072	6.40	510366	9.06	476036	10.59
OP32680-BS	109886	2.86	389667	3.82	239609	5.21	431592	6.40	489268	9.07	452762	10.59
OP32680-MS	127255	2.86	459185	3.82	285835	5.21	502486	6.40	563829	9.07	525279	10.59
OP32680-MSD	116228	2.86	422198	3.82	256165	5.21	460479	6.40	515542	9.07	488534	10.59
MC20000-1	121906	2.86	436753	3.82	273201	5.21	465089	6.40	523559	9.06	500779	10.59
ZZZZZZ	124653	2.86	473409	3.81	283636	5.21	477147	6.40	538708	9.06	479678	10.59
ZZZZZZ	121114	2.86	443427	3.82	272306	5.21	463386	6.40	518115	9.06	490290	10.59

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19724-1	F63178.D	48	41	96	92	88	80
MC19724-2	F63273.D	46	38	98	96	93	82
MC19724-2	F63180.D	46	36	98	94	89	82
MC19724-3	F63277.D	46	38	105	108	103	90
MC19724-3	F63181.D	45	35	92	98	92	81
MC19724-4	F63278.D	61	50	112* [a]	98	95	104
MC19724-4	F63182.D	50	43	99	85	81	91
MC19724-5	U13718.D	40	29	80	75	72	69
OP32661-BS	U13644.D	48	33	90	86	83	86
OP32661-MB	U13643.D	42	30	84	78	78	80
OP32661-MS	U13645.D	48	43	85	81	78	71
OP32661-MSD	U13646.D	45	33	86	78	76	71
OP32681-BS	F63171.D	56	38	97	93	90	90
OP32681-MB	F63170.D	53	34	97	92	88	89
OP32681-MS	F63172.D	52	35	95	93	91	91
OP32681-MSD	F63173.D	53	35	95	95	92	93

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19724-1	I82732.D	77	77	73
MC19724-2	I82733.D	81	80	73
MC19724-3	I82734.D	84	80	74
MC19724-4	I82735.D	71	74	81
MC19724-5	I82672.D	71	70	70
OP32662-BS	I82662.D	80	74	83
OP32662-MB	I82661.D	76	74	80
OP32662-MS	I82663.D	79	72	71
OP32662-MSD	I82664.D	75	69	69
OP32682-BS	I82728.D	80	76	81
OP32682-MB	I82727.D	81	78	80
OP32682-MS	I82729.D	80	77	80
OP32682-MSD	I82730.D	79	76	82

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MB	BK23691.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19724-1, MC19724-2, MC19724-3, MC19724-4, MC19724-5, MC19724-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	99%	36-173%
460-00-4	Bromofluorobenzene (S)	106%	36-173%

Blank Spike Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-BS	BK23692.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19724-1, MC19724-2, MC19724-3, MC19724-4, MC19724-5, MC19724-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.064	90	60-140
106-93-4	1,2-Dibromoethane	0.071	0.070	99	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	96%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MS	BK23693.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
OP32696-MSD	BK23694.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
MC19724-5	BK23700.D	1	04/19/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19724-1, MC19724-2, MC19724-3, MC19724-4, MC19724-5, MC19724-7

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0727	0.058	80	0.074	0.057	77	2	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0727	0.072	99	0.074	0.073	99	1	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
460-00-4	Bromofluorobenzene (S)	99%	93%	84%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	103%	97%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19724-1	BK23696.D	95	107
MC19724-2	BK23697.D	136	138
MC19724-3	BK23698.D	129	127
MC19724-4	BK23699.D	118	120
MC19724-5	BK23700.D	84	97
MC19724-7	BK23701.D	76	87
OP32696-BS	BK23692.D	96	104
OP32696-MB	BK23691.D	99	106
OP32696-MS	BK23693.D	99	104
OP32696-MSD	BK23694.D	93	103

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/18/13
Lab File ID:	BK23684.D	**Injection Time:**	19:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23685.D	04/18/13	20:02	4.45	4.89
ZZZZZZ	BK23686.D	04/18/13	20:25	4.45	4.88
ZZZZZZ	BK23687.D	04/18/13	20:48	4.45	4.88
ZZZZZZ	BK23688.D	04/18/13	21:12	4.45	4.88
ZZZZZZ	BK23689.D	04/18/13	21:36	4.45	4.88
ZZZZZZ	BK23690.D	04/18/13	22:01	4.45	4.89
OP32696-MB	BK23691.D	04/18/13	22:25	4.45	4.89
OP32696-BS	BK23692.D	04/18/13	22:49	4.45	4.89
OP32696-MS	BK23693.D	04/18/13	23:13	4.45	4.89
OP32696-MSD	BK23694.D	04/18/13	23:38	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19724
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/19/13
Lab File ID:	BK23695.D	**Injection Time:**	00:03
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19724-1	BK23696.D	04/19/13	00:28	4.45	4.89
MC19724-2	BK23697.D	04/19/13	00:53	4.45	4.88
MC19724-3	BK23698.D	04/19/13	01:18	4.45	4.88
MC19724-4	BK23699.D	04/19/13	01:44	4.45	4.88
MC19724-5	BK23700.D	04/19/13	02:09	4.45	4.89
MC19724-7	BK23701.D	04/19/13	02:34	4.45	4.89
ZZZZZZ	BK23702.D	04/19/13	02:59	4.45	4.89
ZZZZZZ	BK23703.D	04/19/13	03:25	4.45	4.88
ZZZZZZ	BK23704.D	04/19/13	03:50	4.45	4.88
ZZZZZZ	BK23705.D	04/19/13	04:15	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19816

Sampling Date: 04/11/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 87

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 25, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19816

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC19816

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19816-1	04/11/13	00:00	WPEA	04/12/13	AQ	Trip Blank Water	TRIP BLANK-0411113-HCL
MC19816-2	04/11/13	00:00	WPEA	04/12/13	AQ	Trip Blank Water	TRIP BLANK-041113-ST
MC19816-3	04/11/13	12:01	WPEA	04/12/13	AQ	Ground Water	P93A-ROX-041113
MC19816-4	04/11/13	12:01	WPEA	04/12/13	AQ	Ground Water	P93A-ROX-041113-DUP
MC19816-5	04/11/13	14:25	WPEA	04/12/13	AQ	Ground Water	P93B-ROX-041113
MC19816-6	04/11/13	12:40	WPEA	04/12/13	AQ	Ground Water	P93D-ROX-041113

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 98 6

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** 0/25/20 6 0:06:40 A

4 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 04/ /20 3 and were rece ved at SGS Accutest New Eng and on 04/ 2/20 3 proper y preserved, at 4 Deg C and ntact These Samp es rece ved a job number of MC 98 6 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH2004

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9900- 3MS, MC 9900- 3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, Acro e n, Acry on tr e are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Ethy benzene, m,p-Xy ene, Tetrach oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts Probab e cause due to matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSH2005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9922- MS, MC 9922- MSD were used as the QC samp es nd cated

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3268

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-2MS, MC 9800-2MSD were used as the QC samp es nd cated
- Matr x Sp ke Recovery(s) for 2,4,5-Tr ch oropheno , 2,4,6-Tr ch oropheno , 4,6-D n tro-o-creso , Pentach oropheno , 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for 2,4,5-Tr ch oropheno , 2-N tropheno , 3,3'-D ch orobenz d ne, 4,6-D n tro-o-creso , Hexach orocyc opentad ene, Pentach oropheno are outs de contro m ts Probab e cause due to matr x nterference
- OP3268 -MS/MSD/BS for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32682

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9800-3MS, MC 9800-3MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32696

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC 98 6)

Summary of Hits

Job Number: MC19816
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19816-1	TRIP BLANK-0411113-HCL					
No hits reported in this sample.						
MC19816-2	TRIP BLANK-041113-ST					
No hits reported in this sample.						
MC19816-3	P93A-ROX-041113					
Benzene		120000	250	120	ug/l	SW846 8260B
Ethylbenzene		255 J	500	250	ug/l	SW846 8260B
Phenol		200	25	2.6	ug/l	SW846 8270C
Acenaphthene		0.23	0.10	0.014	ug/l	SW846 8270C BY SIM
Anthracene		0.074 J	0.10	0.018	ug/l	SW846 8270C BY SIM
Fluoranthene		0.046 J	0.10	0.033	ug/l	SW846 8270C BY SIM
Fluorene		0.30	0.10	0.046	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		14.6	0.20	0.14	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		9.8	0.20	0.052	ug/l	SW846 8270C BY SIM
Phenanthrene		0.35	0.050	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.040 J	0.10	0.036	ug/l	SW846 8270C BY SIM
MC19816-4	P93A-ROX-041113-DUP					
Benzene		120000	250	120	ug/l	SW846 8260B
Phenol		179	25	2.6	ug/l	SW846 8270C
Acenaphthene		0.21	0.10	0.014	ug/l	SW846 8270C BY SIM
Fluorene		0.25	0.10	0.046	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		14.6	0.20	0.14	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		9.6	0.20	0.052	ug/l	SW846 8270C BY SIM
Phenanthrene		0.24	0.050	0.013	ug/l	SW846 8270C BY SIM
MC19816-5	P93B-ROX-041113					
Benzene		618000	2500	1200	ug/l	SW846 8260B
Phenol		122	25	2.6	ug/l	SW846 8270C
Di-n-butyl phthalate		1.3 J	5.1	0.39	ug/l	SW846 8270C
MC19816-6	P93D-ROX-041113					
Phenol		8.7 B	5.2	0.53	ug/l	SW846 8270C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK-0411113-HCL		
Lab Sample ID:	MC19816-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60612.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-0411113-HCL		
Lab Sample ID:	MC19816-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-0411113-HCL		
Lab Sample ID:	MC19816-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-041113-ST		
Lab Sample ID:	MC19816-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23702.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	84%		36-173%
460-00-4	Bromofluorobenzene (S)	94%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60628.D	500	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	1500	ug/l	
107-02-8	Acrolein [a]	ND	13000	5100	ug/l	
107-13-1	Acrylonitrile	ND	2500	1600	ug/l	
71-43-2	Benzene	120000	250	120	ug/l	
108-86-1	Bromobenzene	ND	2500	310	ug/l	
74-97-5	Bromochloromethane	ND	2500	630	ug/l	
75-27-4	Bromodichloromethane	ND	500	290	ug/l	
75-25-2	Bromoform	ND	500	390	ug/l	
74-83-9	Bromomethane	ND	1000	510	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	1200	ug/l	
104-51-8	n-Butylbenzene	ND	2500	300	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	280	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	320	ug/l	
75-15-0	Carbon disulfide	ND	2500	310	ug/l	
56-23-5	Carbon tetrachloride	ND	500	430	ug/l	
108-90-7	Chlorobenzene	ND	500	230	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	630	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	1000	370	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	320	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	240	ug/l	
124-48-1	Dibromochloromethane	ND	500	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	460	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	230	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	320	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	860	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	310	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	320	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	210	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	320	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	470	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1000	360	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	320	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	790	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	460	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	98	ug/l	
123-91-1	1,4-Dioxane	ND	13000	7400	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	410	ug/l	
100-41-4	Ethylbenzene	255	500	250	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2500	1000	ug/l	
591-78-6	2-Hexanone	ND	2500	980	ug/l	
98-82-8	Isopropylbenzene	ND	2500	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	290	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	210	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	1500	ug/l	
74-95-3	Methylene bromide	ND	2500	550	ug/l	
75-09-2	Methylene chloride	ND	1000	420	ug/l	
91-20-3	Naphthalene	ND	2500	250	ug/l	
103-65-1	n-Propylbenzene	ND	2500	290	ug/l	
100-42-5	Styrene	ND	2500	230	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	290	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	500	210	ug/l	
108-88-3	Toluene	ND	500	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	630	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	640	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	ND	500	390	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	420	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2500	170	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2500	230	ug/l	
108-05-4	Vinyl Acetate	ND	2500	630	ug/l	
75-01-4	Vinyl chloride	ND	500	310	ug/l	
	m,p-Xylene	ND	500	370	ug/l	
95-47-6	o-Xylene	ND	500	290	ug/l	
1330-20-7	Xylene (total)	ND	500	290	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63183.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	U13742.D	5	04/24/13	NS	04/16/13	OP32681	MSU698

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	200 [a]	25	2.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%	42%	15-110%
4165-62-2	Phenol-d5	51%	39%	15-110%
118-79-6	2,4,6-Tribromophenol	105%	74%	15-110%
4165-60-0	Nitrobenzene-d5	105%	72%	30-130%
321-60-8	2-Fluorobiphenyl	94%	74%	30-130%
1718-51-0	Terphenyl-d14	91%	69%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82736.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.23	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	0.074	0.10	0.018	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	0.046	0.10	0.033	ug/l	J
86-73-7	Fluorene	0.30	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	14.6	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	9.8	0.20	0.052	ug/l	
85-01-8	Phenanthrene	0.35	0.050	0.013	ug/l	
129-00-0	Pyrene	0.040	0.10	0.036	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	44%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113		
Lab Sample ID:	MC19816-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23703.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	33.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	130%		36-173%
460-00-4	Bromofluorobenzene (S)	141%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60629.D	500	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	1500	ug/l	
107-02-8	Acrolein [a]	ND	13000	5100	ug/l	
107-13-1	Acrylonitrile	ND	2500	1600	ug/l	
71-43-2	Benzene	120000	250	120	ug/l	
108-86-1	Bromobenzene	ND	2500	310	ug/l	
74-97-5	Bromochloromethane	ND	2500	630	ug/l	
75-27-4	Bromodichloromethane	ND	500	290	ug/l	
75-25-2	Bromoform	ND	500	390	ug/l	
74-83-9	Bromomethane	ND	1000	510	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	1200	ug/l	
104-51-8	n-Butylbenzene	ND	2500	300	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	280	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	320	ug/l	
75-15-0	Carbon disulfide	ND	2500	310	ug/l	
56-23-5	Carbon tetrachloride	ND	500	430	ug/l	
108-90-7	Chlorobenzene	ND	500	230	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	630	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	1000	370	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	320	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	240	ug/l	
124-48-1	Dibromochloromethane	ND	500	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	460	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	230	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	320	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	860	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	310	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	320	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	210	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	320	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	470	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1000	360	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	320	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	790	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	460	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	98	ug/l	
123-91-1	1,4-Dioxane	ND	13000	7400	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	410	ug/l	
100-41-4	Ethylbenzene	ND	500	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	2500	1000	ug/l	
591-78-6	2-Hexanone	ND	2500	980	ug/l	
98-82-8	Isopropylbenzene	ND	2500	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	290	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	210	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	1500	ug/l	
74-95-3	Methylene bromide	ND	2500	550	ug/l	
75-09-2	Methylene chloride	ND	1000	420	ug/l	
91-20-3	Naphthalene	ND	2500	250	ug/l	
103-65-1	n-Propylbenzene	ND	2500	290	ug/l	
100-42-5	Styrene	ND	2500	230	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	290	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	500	210	ug/l	
108-88-3	Toluene	ND	500	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	630	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	640	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	ND	500	390	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	420	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2500	170	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2500	230	ug/l	
108-05-4	Vinyl Acetate	ND	2500	630	ug/l	
75-01-4	Vinyl chloride	ND	500	310	ug/l	
	m,p-Xylene	ND	500	370	ug/l	
95-47-6	o-Xylene	ND	500	290	ug/l	
1330-20-7	Xylene (total)	ND	500	290	ug/l	

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B = Indicates analyte found in associated method blank
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Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63184.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	U13743.D	5	04/24/13	NS	04/16/13	OP32681	MSU698

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	179 [a]	25	2.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	36%	15-110%
4165-62-2	Phenol-d5	48%	34%	15-110%
118-79-6	2,4,6-Tribromophenol	102%	64%	15-110%
4165-60-0	Nitrobenzene-d5	107%	67%	30-130%
321-60-8	2-Fluorobiphenyl	90%	65%	30-130%
1718-51-0	Terphenyl-d14	87%	60%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82737.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.21	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	0.25	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	14.6	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	9.6	0.20	0.052	ug/l	
85-01-8	Phenanthrene	0.24	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	43%		15-110%
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-041113-DUP		
Lab Sample ID:	MC19816-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23704.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	33.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		36-173%
460-00-4	Bromofluorobenzene (S)	134%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60630.D	500	04/21/13	AMY	n/a	n/a	MSH2004
Run #2	H60653.D	5000	04/22/13	KR	n/a	n/a	MSH2005

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	1500	ug/l	
107-02-8	Acrolein [a]	ND	13000	5100	ug/l	
107-13-1	Acrylonitrile	ND	2500	1600	ug/l	
71-43-2	Benzene	618000 [b]	2500	1200	ug/l	
108-86-1	Bromobenzene	ND	2500	310	ug/l	
74-97-5	Bromochloromethane	ND	2500	630	ug/l	
75-27-4	Bromodichloromethane	ND	500	290	ug/l	
75-25-2	Bromoform	ND	500	390	ug/l	
74-83-9	Bromomethane	ND	1000	510	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	1200	ug/l	
104-51-8	n-Butylbenzene	ND	2500	300	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	280	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	320	ug/l	
75-15-0	Carbon disulfide	ND	2500	310	ug/l	
56-23-5	Carbon tetrachloride	ND	500	430	ug/l	
108-90-7	Chlorobenzene	ND	500	230	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	630	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	1000	370	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	320	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	240	ug/l	
124-48-1	Dibromochloromethane	ND	500	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	460	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	230	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	320	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	860	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	310	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	320	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	210	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	320	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	470	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1000	360	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	320	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	790	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	460	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	98	ug/l	
123-91-1	1,4-Dioxane	ND	13000	7400	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	410	ug/l	
100-41-4	Ethylbenzene	ND	500	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	2500	1000	ug/l	
591-78-6	2-Hexanone	ND	2500	980	ug/l	
98-82-8	Isopropylbenzene	ND	2500	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	290	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	210	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	1500	ug/l	
74-95-3	Methylene bromide	ND	2500	550	ug/l	
75-09-2	Methylene chloride	ND	1000	420	ug/l	
91-20-3	Naphthalene	ND	2500	250	ug/l	
103-65-1	n-Propylbenzene	ND	2500	290	ug/l	
100-42-5	Styrene	ND	2500	230	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	290	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	500	210	ug/l	
108-88-3	Toluene	ND	500	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	630	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	640	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	ND	500	390	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	420	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2500	170	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2500	230	ug/l	
108-05-4	Vinyl Acetate	ND	2500	630	ug/l	
75-01-4	Vinyl chloride	ND	500	310	ug/l	
	m,p-Xylene	ND	500	370	ug/l	
95-47-6	o-Xylene	ND	500	290	ug/l	
1330-20-7	Xylene (total)	ND	500	290	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	87%	70-130%
2037-26-5	Toluene-D8	96%	99%	70-130%
460-00-4	4-Bromofluorobenzene	116%	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63188.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	U13744.D	5	04/24/13	NS	04/16/13	OP32681	MSU698

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	122 [a]	25	2.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.58	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	1.3	5.1	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%	34%	15-110%
4165-62-2	Phenol-d5	36%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	66%	15-110%
4165-60-0	Nitrobenzene-d5	86%	66%	30-130%
321-60-8	2-Fluorobiphenyl	81%	64%	30-130%
1718-51-0	Terphenyl-d14	88%	69%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82738.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	78%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-041113		
Lab Sample ID:	MC19816-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23705.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	31.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.017	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.017	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	127%		36-173%
460-00-4	Bromofluorobenzene (S)	140%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60618.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63189.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	8.7	5.2	0.53	ug/l	B
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82739.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	79%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-041113		
Lab Sample ID:	MC19816-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23707.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	82%		36-173%
460-00-4	Bromofluorobenzene (S)	89%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

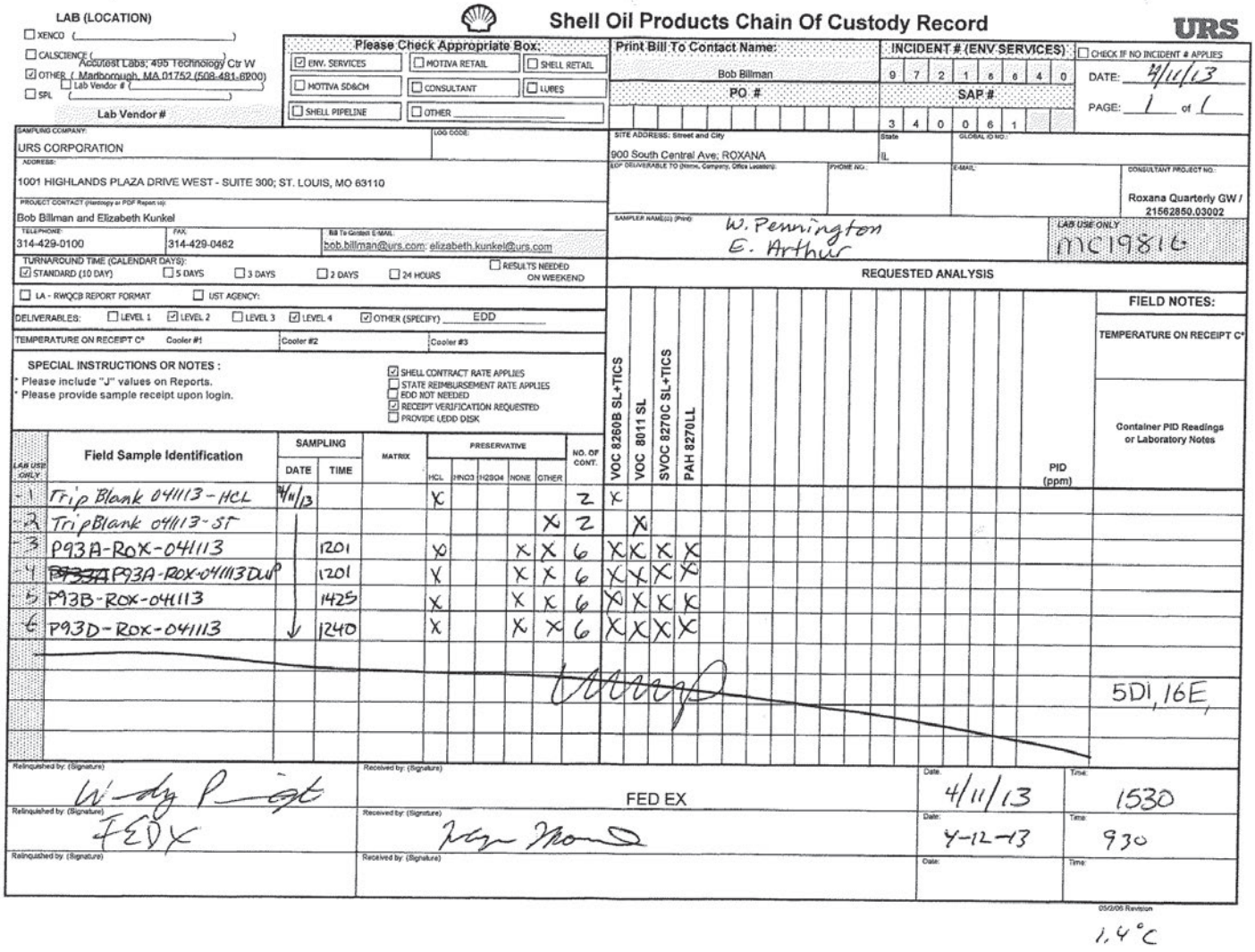
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # (_____)
☐ SPL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 0 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4/11/13
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Bob Billman and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
SAMPLER NAME(S) (Print): W. Pennington E. Arthur
LAB USE ONLY: MC19816

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	Trip Blank 041113-HCL	4/11/13			X					2	X					
2	Trip Blank 041113-ST								X	2		X				
3	P93A-ROX-041113		1201		X			X	X	6	X	X	X	X		
4	~~P93A~~ P93A-ROX-041113DUP		1201		X			X	X	6	X	X	X	X		
5	P93B-ROX-041113		1425		X			X	X	6	X	X	X	X		
6	P93D-ROX-041113	↓	1240		X			X	X	6	X	X	X	X		
																5DI, 16E

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Windy Pruitt	FED EX	4/11/13	1530
FEDX		4-12-13	930

05/2/05 Revision

1.4°C

MC19816: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19816 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/12/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC19816: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19816

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19816-1 Collected: 11-APR-13 00:00 By: WPEA Received: 12-APR-13 By: TRIP BLANK-0411113-HCL						
MC19816-1	SW846 8260B	21-APR-13 10:14	AMY			V8260SL+
MC19816-2 Collected: 11-APR-13 00:00 By: WPEA Received: 12-APR-13 By: TRIP BLANK-041113-ST						
MC19816-2	SW846 8011	19-APR-13 02:59	NK	17-APR-13	BJ	V8011SL
MC19816-3 Collected: 11-APR-13 12:01 By: WPEA Received: 12-APR-13 By: P93A-ROX-041113						
MC19816-3	SW846 8011	19-APR-13 03:25	NK	17-APR-13	BJ	V8011SL
MC19816-3	SW846 8270C	19-APR-13 13:41	KR	16-APR-13	PA	AB8270SL+
MC19816-3	SW846 8270C BY SIM	19-APR-13 15:41	NS	16-APR-13	PA	B8270SIMSL
MC19816-3	SW846 8260B	21-APR-13 17:34	AMY			V8260SL+
MC19816-3	SW846 8270C	24-APR-13 12:15	NS	16-APR-13	PA	AB8270SL+
MC19816-4 Collected: 11-APR-13 12:01 By: WPEA Received: 12-APR-13 By: P93A-ROX-041113-DUP						
MC19816-4	SW846 8011	19-APR-13 03:50	NK	17-APR-13	BJ	V8011SL
MC19816-4	SW846 8270C	19-APR-13 14:05	KR	16-APR-13	PA	AB8270SL+
MC19816-4	SW846 8270C BY SIM	19-APR-13 16:05	NS	16-APR-13	PA	B8270SIMSL
MC19816-4	SW846 8260B	21-APR-13 18:01	AMY			V8260SL+
MC19816-4	SW846 8270C	24-APR-13 12:36	NS	16-APR-13	PA	AB8270SL+
MC19816-5 Collected: 11-APR-13 14:25 By: WPEA Received: 12-APR-13 By: P93B-ROX-041113						
MC19816-5	SW846 8011	19-APR-13 04:15	NK	17-APR-13	BJ	V8011SL
MC19816-5	SW846 8270C	19-APR-13 15:41	KR	16-APR-13	PA	AB8270SL+
MC19816-5	SW846 8270C BY SIM	19-APR-13 16:28	NS	16-APR-13	PA	B8270SIMSL
MC19816-5	SW846 8260B	21-APR-13 18:29	AMY			V8260SL+
MC19816-5	SW846 8260B	22-APR-13 15:55	KR			V8260SL+
MC19816-5	SW846 8270C	24-APR-13 12:58	NS	16-APR-13	PA	AB8270SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19816

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19816-6 Collected: 11-APR-13 12:40 By: WPEA Received: 12-APR-13 By: P93D-ROX-041113						
MC19816-6	SW846 8011	19-APR-13 05:06	NK	17-APR-13	BJ	V8011SL
MC19816-6	SW846 8270C	19-APR-13 16:05	KR	16-APR-13	PA	AB8270SL+
MC19816-6	SW846 8270C BY SIM	19-APR-13 16:51	NS	16-APR-13	PA	B8270SIMSL
MC19816-6	SW846 8260B	21-APR-13 12:59	AMY			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/12/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19816-1.1	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19816-1.1	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19816-1.1	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19816-1.1	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19816-1.1	Scott Parsick		07/24/13 13:54	Disposed
MC19816-2.2	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19816-2.2	Bijan Jafari		04/20/13 08:36	Depleted
MC19816-3.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19816-3.2	Michael Rolo		04/17/13 07:24	Depleted
MC19816-3.4	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19816-3.4	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19816-3.4	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19816-3.4	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19816-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19816-3.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19816-3.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19816-4.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19816-4.2	Michael Rolo		04/17/13 07:24	Depleted
MC19816-4.3	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19816-4.3	Bijan Jafari		04/20/13 08:36	Depleted
MC19816-4.4	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19816-4.4	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19816-4.4	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19816-4.4	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19816-4.4	Scott Parsick		07/24/13 13:54	Disposed
MC19816-5.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19816-5.1	Michael Rolo		04/17/13 07:24	Depleted
MC19816-5.3	VOC Ref #5	Gary Krasinski	04/22/13 14:02	Retrieve from Storage
MC19816-5.3	Gary Krasinski	GCMSH	04/22/13 14:02	Load on Instrument
MC19816-5.3	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19816-5.3	Gary Krasinski	VOC Ref #5	04/25/13 10:05	Return to Storage
MC19816-5.3	Scott Parsick		07/24/13 13:54	Disposed
MC19816-5.4	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19816-5.4	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/12/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19816-5.4	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19816-5.4	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19816-5.4	Scott Parsick		07/24/13 13:54	Disposed
MC19816-5.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19816-5.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19816-6.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19816-6.2	Michael Rolo		04/17/13 07:24	Depleted
MC19816-6.3	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19816-6.3	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19816-6.3	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19816-6.3	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19816-6.3	Scott Parsick		07/24/13 13:54	Disposed
MC19816-6.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19816-6.6	Bijan Jafari		04/20/13 08:36	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	80.9	162* [a]	70-130
107-02-8	Acrolein	250	129	52* [a]	70-130
107-13-1	Acrylonitrile	50	34.6	69* [a]	70-130
71-43-2	Benzene	50	49.4	99	70-130
108-86-1	Bromobenzene	50	54.6	109	70-130
74-97-5	Bromochloromethane	50	47.2	94	70-130
75-27-4	Bromodichloromethane	50	56.9	114	70-130
75-25-2	Bromoform	50	57.1	114	70-130
74-83-9	Bromomethane	50	48.7	97	70-130
78-93-3	2-Butanone (MEK)	50	57.3	115	70-130
104-51-8	n-Butylbenzene	50	55.7	111	70-130
135-98-8	sec-Butylbenzene	50	53.4	107	70-130
98-06-6	tert-Butylbenzene	50	54.3	109	70-130
75-15-0	Carbon disulfide	50	43.0	86	70-130
56-23-5	Carbon tetrachloride	50	60.7	121	70-130
108-90-7	Chlorobenzene	50	50.5	101	70-130
75-00-3	Chloroethane	50	48.2	96	70-130
110-75-8	2-Chloroethyl vinyl ether	50	29.2	58* [a]	70-130
67-66-3	Chloroform	50	49.6	99	70-130
74-87-3	Chloromethane	50	51.2	102	70-130
95-49-8	o-Chlorotoluene	50	50.1	100	70-130
106-43-4	p-Chlorotoluene	50	53.0	106	70-130
124-48-1	Dibromochloromethane	50	55.1	110	70-130
95-50-1	1,2-Dichlorobenzene	50	52.7	105	70-130
541-73-1	1,3-Dichlorobenzene	50	54.1	108	70-130
106-46-7	1,4-Dichlorobenzene	50	53.2	106	70-130
75-71-8	Dichlorodifluoromethane	50	57.8	116	70-130
75-34-3	1,1-Dichloroethane	50	44.4	89	70-130
107-06-2	1,2-Dichloroethane	50	52.8	106	70-130
75-35-4	1,1-Dichloroethene	50	47.4	95	70-130
156-59-2	cis-1,2-Dichloroethene	50	45.0	90	70-130
156-60-5	trans-1,2-Dichloroethene	50	44.1	88	70-130
78-87-5	1,2-Dichloropropane	50	45.4	91	70-130
142-28-9	1,3-Dichloropropane	50	50.8	102	70-130
594-20-7	2,2-Dichloropropane	50	58.3	117	70-130
563-58-6	1,1-Dichloropropene	50	50.2	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	46.2	92	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	201	80	70-130
97-63-2	Ethyl methacrylate	50	43.0	86	77-137
100-41-4	Ethylbenzene	50	57.2	114	70-130
87-68-3	Hexachlorobutadiene	50	58.0	116	70-130
591-78-6	2-Hexanone	50	65.6	131* [a]	70-130
98-82-8	Isopropylbenzene	50	53.4	107	70-130
99-87-6	p-Isopropyltoluene	50	59.0	118	70-130
1634-04-4	Methyl Tert Butyl Ether	50	45.0	90	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.9	86	70-130
74-95-3	Methylene bromide	50	51.0	102	70-130
75-09-2	Methylene chloride	50	44.5	89	70-130
91-20-3	Naphthalene	50	45.3	91	70-130
103-65-1	n-Propylbenzene	50	51.2	102	70-130
100-42-5	Styrene	50	56.8	114	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	62.3	125	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	53.6	107	70-130
127-18-4	Tetrachloroethene	50	57.2	114	70-130
108-88-3	Toluene	50	49.7	99	70-130
87-61-6	1,2,3-Trichlorobenzene	50	51.1	102	70-130
120-82-1	1,2,4-Trichlorobenzene	50	52.8	106	70-130
71-55-6	1,1,1-Trichloroethane	50	53.2	106	70-130
79-00-5	1,1,2-Trichloroethane	50	48.3	97	70-130
79-01-6	Trichloroethene	50	50.1	100	70-130
75-69-4	Trichlorofluoromethane	50	53.2	106	70-130
96-18-4	1,2,3-Trichloropropane	50	51.4	103	70-130
95-63-6	1,2,4-Trimethylbenzene	50	55.5	111	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.9	112	70-130
108-05-4	Vinyl Acetate	50	49.5	99	70-130
75-01-4	Vinyl chloride	50	44.3	89	70-130
	m,p-Xylene	100	114	114	70-130
95-47-6	o-Xylene	50	55.9	112	70-130
1330-20-7	Xylene (total)	150	170	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.1	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19900-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	186	74	250	178	71	4	70-130/30
107-02-8	Acrolein	ND		1250	692	55* a	1250	684	55* a	1	70-130/30
107-13-1	Acrylonitrile	ND		250	185	74	250	187	75	1	70-130/30
71-43-2	Benzene	ND		250	271	108	250	273	109	1	70-130/30
108-86-1	Bromobenzene	ND		250	306	122	250	307	123	0	70-130/30
74-97-5	Bromochloromethane	ND		250	265	106	250	263	105	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	290	116	250	286	114	1	70-130/30
75-25-2	Bromoform	ND		250	297	119	250	295	118	1	70-130/30
74-83-9	Bromomethane	ND		250	258	103	250	254	102	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	218	87	250	216	86	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	299	120	250	287	115	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	293	117	250	285	114	3	70-130/30
98-06-6	tert-Butylbenzene	ND		250	294	118	250	287	115	2	70-130/30
75-15-0	Carbon disulfide	ND		250	220	88	250	222	89	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	313	125	250	311	124	1	70-130/30
108-90-7	Chlorobenzene	ND		250	296	118	250	286	114	3	70-130/30
75-00-3	Chloroethane	ND		250	252	101	250	245	98	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	7.0	3* a	250	6.4	3* a	9	70-130/30
67-66-3	Chloroform	ND		250	263	105	250	252	101	4	70-130/30
74-87-3	Chloromethane	ND		250	275	110	250	265	106	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	274	110	250	272	109	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	286	114	250	277	111	3	70-130/30
124-48-1	Dibromochloromethane	ND		250	296	118	250	293	117	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	287	115	250	280	112	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	293	117	250	288	115	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	290	116	250	283	113	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	265	106	250	247	99	7	70-130/30
75-34-3	1,1-Dichloroethane	3.8		250	244	96	250	238	94	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	259	104	250	260	104	0	70-130/30
75-35-4	1,1-Dichloroethene	0.48	J	250	267	107	250	261	104	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	33.1		250	283	100	250	280	99	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	250	100	250	246	98	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	249	100	250	248	99	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	294	118	250	285	114	3	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	290	116	250	279	112	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	280	112	250	272	109	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19900-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	250	238	95	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	252	101	250	248	99	2	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1190	95	1250	1250	100	5	70-130/30
97-63-2	Ethyl methacrylate	ND		250	235	94	250	237	95	1	72-139/30
100-41-4	Ethylbenzene	ND		250	328	131* [a]	250	313	125	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	306	122	250	304	122	1	70-130/30
591-78-6	2-Hexanone	ND		250	244	98	250	245	98	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	302	121	250	290	116	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	319	128	250	311	124	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	240	96	250	241	96	0	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	218	87	250	220	88	1	70-130/30
74-95-3	Methylene bromide	ND		250	273	109	250	274	110	0	70-130/30
75-09-2	Methylene chloride	ND		250	241	96	250	236	94	2	70-130/30
91-20-3	Naphthalene	ND		250	243	97	250	249	100	2	70-130/30
103-65-1	n-Propylbenzene	ND		250	286	114	250	277	111	3	70-130/30
100-42-5	Styrene	ND		250	326	130	250	316	126	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	344	138* [a]	250	343	137* [a]	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	300	120	250	300	120	0	70-130/30
127-18-4	Tetrachloroethene	0.47	J	250	336	134* [a]	250	320	128	5	70-130/30
108-88-3	Toluene	ND		250	278	111	250	271	108	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	264	106	250	271	108	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	276	110	250	277	111	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.3		250	293	113	250	280	108	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	261	104	250	251	100	4	70-130/30
79-01-6	Trichloroethene	2.1		250	275	109	250	268	106	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	242	97	250	231	92	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	264	106	250	265	106	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	303	121	250	296	118	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	305	122	250	300	120	2	70-130/30
108-05-4	Vinyl Acetate	ND		250	280	112	250	276	110	1	70-130/30
75-01-4	Vinyl chloride	ND		250	216	86	250	212	85	2	70-130/30
	m,p-Xylene	ND		500	655	131* [a]	500	637	127	3	70-130/30
95-47-6	o-Xylene	ND		250	319	128	250	311	124	3	70-130/30
1330-20-7	Xylene (total)	ND		750	974	130	750	948	126	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-1, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Surrogate Recoveries	MS	MSD	MC19900-13	Limits
1868-53-7	Dibromofluoromethane	93%	92%	93%	70-130%
2037-26-5	Toluene-D8	99%	99%	102%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19816-5

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	249	100	250	228	91	9	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC19922-1	Limits
1868-53-7	Dibromofluoromethane	93%	96%	89%	70-130%
2037-26-5	Toluene-D8	102%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	111%	70-130%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2004-CC1993	**Injection Date:**	04/21/13
Lab File ID:	H60608.D	**Injection Time:**	08:24
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	154965	8.70	218326	9.57	99937	12.83	129958	15.39	29574	6.28
Upper Limit [a]	309930	9.20	436652	10.07	199874	13.33	259916	15.89	59148	6.78
Lower Limit [b]	77483	8.20	109163	9.07	49969	12.33	64979	14.89	14787	5.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2004-BS	163020	8.70	229494	9.57	104143	12.83	133312	15.39	33441	6.27
MSH2004-MB	145550	8.70	197728	9.57	84013	12.83	101252	15.40	29106	6.28
MC19816-1	147365	8.70	203260	9.57	87132	12.83	102479	15.40	27781	6.29
ZZZZZZ	144580	8.70	194111	9.57	83290	12.83	97794	15.40	27275	6.28
ZZZZZZ	141022	8.70	189693	9.57	82031	12.83	98340	15.40	27036	6.27
ZZZZZZ	142710	8.70	190282	9.57	81102	12.83	96563	15.40	25281	6.28
ZZZZZZ	145496	8.70	194678	9.57	82263	12.83	100439	15.40	28858	6.28
MC19900-13	142470	8.70	192688	9.57	82532	12.83	99547	15.40	27747	6.28
MC19816-6	138544	8.70	188517	9.57	80004	12.83	91400	15.40	27888	6.29
ZZZZZZ	143120	8.70	198907	9.57	82208	12.83	101868	15.39	27880	6.28
ZZZZZZ	156028	8.70	212661	9.56	91569	12.83	119347	15.39	28890	6.28
ZZZZZZ	173931	8.70	233175	9.57	97601	12.83	123210	15.40	35917	6.28
MC19900-13MS	189888	8.70	268508	9.57	114380	12.83	148674	15.39	37942	6.27
MC19900-13MSD	193472	8.70	271159	9.57	117784	12.83	151552	15.39	38346	6.28
ZZZZZZ	175882	8.70	246929	9.57	98499	12.83	119937	15.40	34796	6.27
ZZZZZZ	181038	8.70	259902	9.57	101898	12.83	119582	15.40	36324	6.28
ZZZZZZ	168624	8.70	230539	9.57	94123	12.83	111269	15.40	33289	6.28
MC19816-3	159092	8.70	226057	9.57	89699	12.83	104812	15.40	31168	6.28
MC19816-4	150930	8.70	216411	9.57	86931	12.83	100037	15.40	28783	6.28
MC19816-5	145114	8.70	217266	9.57	84982	12.83	95656	15.40	27874	6.27
ZZZZZZ	145551	8.70	207135	9.57	84782	12.83	100392	15.40	27657	6.27
ZZZZZZ	138148	8.70	196399	9.57	79531	12.83	94309	15.40	26066	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2005-CC1993	**Injection Date:**	04/22/13
Lab File ID:	H60638.D	**Injection Time:**	08:42
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145518	8.70	203839	9.57	92365	12.82	122447	15.39	25920	6.27
Upper Limit [a]	291036	9.20	407678	10.07	184730	13.32	244894	15.89	51840	6.77
Lower Limit [b]	72759	8.20	101920	9.07	46183	12.32	61224	14.89	12960	5.77
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2005-BS	153131	8.70	210431	9.57	97000	12.82	124939	15.39	29597	6.27
MSH2005-MB	141357	8.70	190495	9.57	79390	12.83	97297	15.40	27529	6.28
ZZZZZZ	145372	8.70	194657	9.57	82893	12.82	97308	15.40	28465	6.27
ZZZZZZ	136877	8.70	185060	9.57	78268	12.83	93270	15.40	25790	6.28
ZZZZZZ	140480	8.70	184085	9.57	79168	12.83	102070	15.39	26872	6.28
ZZZZZZ	151215	8.70	205268	9.57	84612	12.83	112538	15.39	30302	6.28
ZZZZZZ	145544	8.70	190398	9.57	82699	12.83	96284	15.40	25141	6.28
ZZZZZZ	146421	8.70	207407	9.56	83715	12.83	105266	15.39	26809	6.27
ZZZZZZ	77186	8.70	103196	9.57	43628[c]	12.82	51114[c]	15.39	13455	6.28
ZZZZZZ	137069	8.70	186849	9.57	80208	12.83	101333	15.40	28083	6.28
MC19816-5	139308	8.70	192444	9.57	79270	12.83	94053	15.40	26423	6.28
ZZZZZZ	137830	8.70	187984	9.57	78530	12.83	94049	15.40	27423	6.28
ZZZZZZ	133472	8.70	185664	9.57	77724	12.83	92782	15.40	26452	6.27
MC19922-1MS	142688	8.70	195289	9.57	89389	12.82	119300	15.39	27185	6.27
MC19922-1MSD	147065	8.70	202105	9.57	90566	12.83	118534	15.39	27790	6.27
MC19922-1	145886	8.70	197741	9.57	83263	12.83	102309	15.39	29211	6.27
ZZZZZZ	141347	8.70	190076	9.57	79817	12.83	96540	15.39	27936	6.28
ZZZZZZ	134414	8.70	178829	9.57	75395	12.83	86839	15.40	25563	6.28
ZZZZZZ	135303	8.70	177608	9.57	77080	12.83	86755	15.40	26425	6.27
ZZZZZZ	133099	8.70	178493	9.57	76610	12.83	88204	15.40	27318	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19816-1	H60612.D	91	102	113
MC19816-3	H60628.D	86	97	112
MC19816-4	H60629.D	88	98	115
MC19816-5	H60653.D	87	99	113
MC19816-5	H60630.D	88	96	116
MC19816-6	H60618.D	90	101	115
MC19900-13MS	H60622.D	93	99	106
MC19900-13MSD	H60623.D	92	99	105
MC19922-1MS	H60656.D	93	102	105
MC19922-1MSD	H60657.D	96	99	105
MSH2004-BS	H60609.D	96	101	106
MSH2004-MB	H60611.D	90	102	111
MSH2005-BS	H60639.D	94	101	104
MSH2005-MB	H60642.D	89	103	113

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	3.5	5.0	0.51	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	88%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MB	I82727.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	15-110%
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.5	36	30-130
95-57-8	2-Chlorophenol	100	108	108	30-130
59-50-7	4-Chloro-3-methyl phenol	100	113	113	30-130
120-83-2	2,4-Dichlorophenol	100	120	120	30-130
105-67-9	2,4-Dimethylphenol	100	110	110	30-130
51-28-5	2,4-Dinitrophenol	100	119	119	30-130
534-52-1	4,6-Dinitro-o-cresol	100	127	127	30-130
95-48-7	2-Methylphenol	100	90.0	90	30-130
	3&4-Methylphenol	200	183	92	30-130
88-75-5	2-Nitrophenol	100	123	123	30-130
100-02-7	4-Nitrophenol	100	59.8	60	30-130
87-86-5	Pentachlorophenol	100	125	125	30-130
108-95-2	Phenol	100	56.2	56	30-130
95-95-4	2,4,5-Trichlorophenol	100	130	130	30-130
88-06-2	2,4,6-Trichlorophenol	100	126	126	30-130
62-53-3	Aniline	50	19.9	40	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.9	92	40-140
85-68-7	Butyl benzyl phthalate	50	46.0	92	40-140
100-51-6	Benzyl Alcohol	50	28.2	56	40-140
91-58-7	2-Chloronaphthalene	50	46.6	93	40-140
106-47-8	4-Chloroaniline	50	32.1	64	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	45.6	91	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.7	85	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	51.9	104	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.9	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.8	92	40-140
121-14-2	2,4-Dinitrotoluene	50	47.2	94	40-140
606-20-2	2,6-Dinitrotoluene	50	50.3	101	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.9	12* [a]	40-140
132-64-9	Dibenzofuran	50	44.3	89	40-140
84-74-2	Di-n-butyl phthalate	50	46.2	92	40-140
117-84-0	Di-n-octyl phthalate	50	52.3	105	40-140
84-66-2	Diethyl phthalate	50	44.8	90	40-140
131-11-3	Dimethyl phthalate	50	33.3	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.4	97	40-140
118-74-1	Hexachlorobenzene	50	46.8	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	17.7	35* [a]	40-140
67-72-1	Hexachloroethane	50	38.5	77	40-140
78-59-1	Isophorone	50	49.0	98	40-140
88-74-4	2-Nitroaniline	50	47.8	96	40-140
99-09-2	3-Nitroaniline	50	35.6	71	40-140
100-01-6	4-Nitroaniline	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	44.7	89	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	48.2	96	40-140
86-30-6	N-Nitrosodiphenylamine	50	45.4	91	40-140
110-86-1	Pyridine	50	21.8	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	15-110%
4165-62-2	Phenol-d5	38%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	93%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-BS	I82728.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	31.2	62	40-140
120-12-7	Anthracene	50	40.8	82	40-140
56-55-3	Benzo(a)anthracene	50	41.3	83	40-140
50-32-8	Benzo(a)pyrene	50	36.5	73	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	40-140
207-08-9	Benzo(k)fluoranthene	50	42.4	85	40-140
218-01-9	Chrysene	50	39.4	79	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.3	81	40-140
206-44-0	Fluoranthene	50	41.3	83	40-140
86-73-7	Fluorene	50	37.2	74	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	40-140
90-12-0	1-Methylnaphthalene	50	38.4	77	40-140
91-57-6	2-Methylnaphthalene	50	37.8	76	40-140
85-01-8	Phenanthrene	50	40.6	81	40-140
129-00-0	Pyrene	50	40.8	82	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	81%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: Method: SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	60.7	61	100	59.1	59	3	30-130/20
95-57-8	2-Chlorophenol	ND		100	111	111	100	112	112	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	119	119	100	117	117	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	126	126	100	125	125	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	113	113	100	114	114	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	128	128	100	123	123	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	136	136* [a]	100	135	135* [a]	1	30-130/20
95-48-7	2-Methylphenol	ND		100	91.3	91	100	92.1	92	1	30-130/20
	3&4-Methylphenol	ND		200	189	95	200	185	93	2	30-130/20
88-75-5	2-Nitrophenol	ND		100	130	130	100	131	131* [a]	1	30-130/20
100-02-7	4-Nitrophenol	ND		100	60.9	61	100	60.6	61	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	138	138* [a]	100	131	131* [a]	5	30-130/20
108-95-2	Phenol	2.7	J	100	52.1	49	100	52.5	50	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	137	137* [a]	100	134	134* [a]	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	134	134* [a]	100	130	130	3	30-130/20
62-53-3	Aniline	ND		50	21.8	44	50	23.2	46	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.8	94	50	46.2	92	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	48.3	97	50	47.2	94	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	29.3	59	50	31.4	63	7	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.9	96	50	47.7	95	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	30.6	61	50	29.7	59	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.6	91	50	45.6	91	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.7	85	50	44.6	89	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	52.1	104	50	51.9	104	0	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	47.3	95	50	46.8	94	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	47.2	94	50	47.8	96	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	47.8	96	50	47.4	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	50.5	101	50	50.6	101	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	5.7	11* [b]	50	6.0	12* [b]	5	40-140/20
132-64-9	Dibenzofuran	ND		50	45.4	91	50	44.4	89	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	47.1	94	50	46.2	92	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.1	108	50	52.5	105	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	46.0	92	50	45.2	90	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	37.5	75	50	35.4	71	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	3.1		50	49.8	93	50	48.8	91	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.9	98	50	48.0	96	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	19.2	38* [b]	50	18.4	37* [b]	4	40-140/20
67-72-1	Hexachloroethane	ND		50	40.2	80	50	42.2	84	5	40-140/20
78-59-1	Isophorone	ND		50	49.2	98	50	49.8	100	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	48.3	97	50	48.4	97	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	32.1	64	50	32.7	65	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.5	85	50	43.4	87	2	40-140/20
98-95-3	Nitrobenzene	ND		50	45.1	90	50	47.0	94	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.7	55	50	28.3	57	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.9	96	50	48.3	97	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.1	94	50	46.1	92	2	40-140/20
110-86-1	Pyridine	ND		50	21.9	44	50	21.2	42	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-2	Limits
367-12-4	2-Fluorophenol	52%	53%	49%	15-110%
4165-62-2	Phenol-d5	35%	35%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	95%	95%	98%	15-110%
4165-60-0	Nitrobenzene-d5	93%	95%	89%	30-130%
321-60-8	2-Fluorobiphenyl	91%	92%	87%	30-130%
1718-51-0	Terphenyl-d14	91%	93%	93%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MS	I82729.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
OP32682-MSD	I82730.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
MC19800-3	I82731.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19800-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	39.9	80	50	40.1	80	1	40-140/20
208-96-8	Acenaphthylene	ND		50	31.6	63	50	31.8	64	1	40-140/20
120-12-7	Anthracene	ND		50	41.3	83	50	41.2	82	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	41.8	84	50	41.9	84	0	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	36.8	74	50	37.2	74	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	38.3	77	50	39.4	79	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	45.4	91	50	45.9	92	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	43.6	87	50	42.5	85	3	40-140/20
218-01-9	Chrysene	ND		50	40.4	81	50	39.9	80	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	40.3	81	50	40.6	81	1	40-140/20
206-44-0	Fluoranthene	ND		50	41.9	84	50	41.7	83	0	40-140/20
86-73-7	Fluorene	ND		50	37.6	75	50	37.4	75	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	39.8	80	50	40.0	80	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	40.0	80	50	39.9	80	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.3	79	50	39.2	78	0	40-140/20
85-01-8	Phenanthrene	ND		50	41.4	83	50	41.1	82	1	40-140/20
129-00-0	Pyrene	ND		50	41.7	83	50	41.5	83	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-3	Limits
367-12-4	2-Fluorophenol	49%	49%	44%	15-110%
4165-62-2	Phenol-d5	31%	32%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	80%	78%	15-110%
4165-60-0	Nitrobenzene-d5	80%	79%	77%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	78%	30-130%
1718-51-0	Terphenyl-d14	80%	82%	81%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2952-CC2937	**Injection Date:**	04/19/13
Lab File ID:	F63169.D	**Injection Time:**	08:03
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	26965	4.06	100596	5.05	64690	6.49	121165	7.84	140401	10.63	125531	12.10
Upper Limit [a]	53930	4.56	201192	5.55	129380	6.99	242330	8.34	280802	11.13	251062	12.60
Lower Limit [b]	13483	3.56	50298	4.55	32345	5.99	60583	7.34	70201	10.13	62766	11.60
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP32681-MB	21226	4.06	79894	5.05	51442	6.49	95555	7.84	108323	10.62	100710	12.10
OP32681-BS	21277	4.06	80083	5.06	51007	6.49	96593	7.85	109464	10.63	101150	12.10
OP32681-MS	21834	4.06	81093	5.05	51106	6.49	95945	7.85	107570	10.63	97193	12.10
OP32681-MSD	19466	4.06	73354	5.05	46863	6.49	88333	7.84	99932	10.63	91498	12.10
MC19800-2	18953	4.06	72238	5.05	46161	6.49	85827	7.84	96461	10.62	91108	12.09
ZZZZZZ	18531	4.06	71378	5.05	45366	6.49	82508	7.84	98329	10.62	93986	12.10
ZZZZZZ	20715	4.06	76937	5.05	48376	6.49	86774	7.84	107848	10.62	101918	12.10
ZZZZZZ	20319	4.06	77713	5.05	49940	6.49	93335	7.84	107821	10.63	102870	12.10
ZZZZZZ	20374	4.06	74799	5.05	48121	6.49	88844	7.84	101827	10.62	98665	12.10
ZZZZZZ	23166	4.06	85839	5.05	54949	6.49	102196	7.84	115402	10.62	110980	12.10
ZZZZZZ	19637	4.06	74741	5.05	46722	6.49	86792	7.84	98279	10.62	88652	12.10
MC19816-3	17899	4.06	67412	5.05	42872	6.49	78035	7.84	89138	10.62	81087	12.10
MC19816-4	18353	4.06	69053	5.05	44757	6.49	79546	7.84	91283	10.62	84577	12.10
ZZZZZZ	19039	4.06	67789	5.05	42435	6.49	75658	7.84	92757	10.63	90851	12.10
MC19816-5	17484	4.06	65541	5.05	41935	6.49	75092	7.84	85083	10.62	78046	12.10
MC19816-6	16753	4.06	64226	5.05	40927	6.49	74940	7.84	85678	10.62	79138	12.10
ZZZZZZ	21424	4.06	78351	5.05	47525	6.49	87765	7.84	100055	10.62	92231	12.10
ZZZZZZ	14882	4.06	56289	5.05	36520	6.49	66449	7.84	76983	10.62	71026	12.09
ZZZZZZ	17836	4.06	66536	5.05	41919	6.49	76671	7.84	88686	10.62	81904	12.10
ZZZZZZ	17739	4.06	67482	5.05	42611	6.49	79842	7.84	91406	10.62	85552	12.09
ZZZZZZ	16939	4.06	63790	5.05	41000	6.49	74543	7.84	86084	10.62	79340	12.10
ZZZZZZ	19408	4.06	70122	5.05	42447	6.49	77859	7.84	92969	10.62	85770	12.09
ZZZZZZ	18126	4.06	67802	5.05	43620	6.49	77842	7.84	87315	10.63	81870	12.10
ZZZZZZ	16406	4.06	62419	5.05	39403	6.49	72880	7.84	84791	10.62	75333	12.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	179692	3.39	460156	4.35	237134	5.75	434209	6.98	344879	9.71	639898	11.10
Upper Limit [a]	359384	3.89	920312	4.85	474268	6.25	868418	7.48	689758	10.21	1279796	11.60
Lower Limit [b]	89846	2.89	230078	3.85	118567	5.25	217105	6.48	172440	9.21	319949	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32693-MB	139424	3.38	358365	4.35	182528	5.75	318374	6.98	250282	9.70	486696	11.10
OP32693-BS	139690	3.38	355246	4.35	183610	5.75	323862	6.99	256817	9.71	499776	11.10
OP32693-MS	130368	3.38	333129	4.35	171280	5.75	301573	6.98	237538	9.71	463846	11.10
OP32693-MSD	125331	3.38	320948	4.35	165486	5.74	297198	6.98	233451	9.70	451858	11.09
MC19800-9	144481	3.38	377139	4.35	189735	5.74	326402	6.98	266470	9.70	515316	11.09
ZZZZZZ	131278	3.38	334825	4.35	163915	5.74	287165	6.98	232011	9.70	458538	11.10
ZZZZZZ	122472	3.38	323344	4.35	167074	5.74	292322	6.98	238730	9.70	465652	11.09
OP32682-MB	148798	3.38	379002	4.35	194285	5.74	343460	6.98	278659	9.70	542303	11.09
OP32682-BS	153296	3.39	386293	4.35	198122	5.75	354075	6.99	274577	9.71	521264	11.10
OP32682-MS	155723	3.39	391581	4.35	201115	5.75	357436	6.99	274726	9.71	525274	11.10
OP32682-MSD	146672	3.39	374500	4.35	193256	5.75	346963	6.99	272228	9.71	525153	11.10
MC19800-3	157230	3.38	402876	4.35	203336	5.74	358154	6.98	279045	9.70	551300	11.10
ZZZZZZ	150080	3.38	382672	4.35	196813	5.74	351141	6.98	283440	9.70	565244	11.09
ZZZZZZ	137342	3.39	341792	4.35	173991	5.74	308917	6.98	247995	9.70	490916	11.09
ZZZZZZ	151165	3.39	373443	4.35	189460	5.74	335217	6.98	270943	9.70	532909	11.09
ZZZZZZ	174567	3.39	458604	4.35	224352	5.75	394969	6.98	312619	9.71	602698	11.10
MC19816-3	149620	3.39	388888	4.35	201733	5.75	364947	6.98	299036	9.70	580990	11.10
MC19816-4	145419	3.39	372209	4.35	193062	5.75	347268	6.98	283829	9.70	562118	11.10
MC19816-5	154647	3.39	396581	4.35	200338	5.74	352331	6.98	283827	9.71	546027	11.10
MC19816-6	153832	3.38	398126	4.35	203856	5.74	358521	6.98	292968	9.70	571587	11.10
ZZZZZZ	140627	3.38	367318	4.35	183513	5.75	337924	6.98	279273	9.71	547113	11.10
ZZZZZZ	124448	3.38	327531	4.35	173742	5.74	309890	6.98	258582	9.70	503738	11.10
ZZZZZZ	144516	3.38	373750	4.35	192239	5.74	349202	6.98	292199	9.71	574680	11.10
ZZZZZZ	141757	3.38	378382	4.35	196962	5.75	359156	6.98	302709	9.70	592309	11.10
ZZZZZZ	150396	3.39	398302	4.35	206391	5.75	372293	6.98	314997	9.71	621297	11.10
ZZZZZZ	136149	3.39	356418	4.36	185150	5.75	333478	6.99	275713	9.71	529195	11.10
ZZZZZZ	142746	3.38	376341	4.35	192528	5.75	351934	6.99	292685	9.71	548493	11.11
ZZZZZZ	152229	3.38	407303	4.35	214602	5.74	380880	6.98	327110	9.71	617058	11.10
ZZZZZZ	129337	3.39	342167	4.35	182913	5.74	332736	6.98	285283	9.70	558557	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU698-CC623	**Injection Date:**	04/24/13
Lab File ID:	U13741.D	**Injection Time:**	11:53
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	118113	2.86	424400	3.83	273757	5.21	471959	6.41	508710	9.07	485229	10.59
Upper Limit [a]	236226	3.36	848800	4.33	547514	5.71	943918	6.91	1017420	9.57	970458	11.09
Lower Limit [b]	59057	2.36	212200	3.33	136879	4.71	235980	5.91	254355	8.57	242615	10.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19816-3	145205	2.86	540622	3.81	319563	5.21	563287	6.40	617738	9.06	568396	10.58
MC19816-4	145897	2.86	547273	3.82	331656	5.21	590400	6.40	645543	9.06	612102	10.59
MC19816-5	141208	2.86	521647	3.81	319734	5.21	557534	6.40	592943	9.06	557974	10.58
ZZZZZZ	144084	2.86	527521	3.82	315201	5.21	557560	6.40	604015	9.06	561806	10.58
ZZZZZZ	113587	2.86	416581	3.82	256355	5.21	460136	6.40	523925	9.05	498179	10.58
ZZZZZZ	135778	2.86	496148	3.81	298910	5.21	530571	6.40	617127	9.06	578428	10.59
ZZZZZZ	138329	2.86	513288	3.81	319799	5.21	547555	6.40	621509	9.06	586036	10.58
ZZZZZZ	136755	2.86	510076	3.81	311542	5.21	553431	6.40	620086	9.06	587331	10.59
OP32739-MB	130209	2.86	478843	3.81	282881	5.21	488333	6.40	498093	9.06	451652	10.58
OP32739-BS	136850	2.86	483229	3.82	287991	5.21	477718	6.40	495135	9.06	437305	10.58
ZZZZZZ	122656	2.86	450860	3.81	265337	5.21	441761	6.40	435906	9.05	388132	10.58
ZZZZZZ	124641	2.86	456174	3.81	274224	5.21	477263	6.40	508729	9.05	446132	10.58
ZZZZZZ	119797	2.86	435359	3.82	200055	5.23	249462	6.45	363621	9.15	403355	10.67
ZZZZZZ	97453	2.86	342301	3.82	172858	5.24	220808*	6.46	318477	9.17	362806	10.70
ZZZZZZ	84096	2.86	303493	3.82	193899	5.21	347289	6.40	399933	9.06	369780	10.59
ZZZZZZ	93271	2.86	341059	3.82	216267	5.21	389886	6.40	440664	9.06	409907	10.59
ZZZZZZ	111436	2.86	399852	3.81	247037	5.21	416359	6.40	397321	9.06	333180	10.59
ZZZZZZ	108668	2.86	390635	3.82	246629	5.21	421283	6.40	445727	9.06	400674	10.59
ZZZZZZ	97078	2.86	346164	3.82	209691	5.21	359215	6.40	402178	9.07	370891	10.60
ZZZZZZ	46767*	2.86	146936*	3.82	113178*	5.21	149426*	6.42	99243*	9.18	82380*	10.77

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19816-3	U13742.D	42	39	74	72	74	69
MC19816-3	F63183.D	55	51	105	105	94	91
MC19816-4	U13743.D	36	34	64	67	65	60
MC19816-4	F63184.D	53	48	102	107	90	87
MC19816-5	U13744.D	34	29	66	66	64	69
MC19816-5	F63188.D	44	36	92	86	81	88
MC19816-6	F63189.D	30	22	96	85	83	97
OP32681-BS	F63171.D	56	38	97	93	90	90
OP32681-MB	F63170.D	53	34	97	92	88	89
OP32681-MS	F63172.D	52	35	95	93	91	91
OP32681-MSD	F63173.D	53	35	95	95	92	93

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19816-3	I82736.D	49	44	84	83	82	84
MC19816-4	I82737.D	47	43	81	83	81	81
MC19816-5	I82738.D	39	33	78	74	73	79
MC19816-6	I82739.D	28	20	79	74	74	88
OP32682-BS	I82728.D	50	33	81	80	76	81
OP32682-MB	I82727.D	48	33	79	81	78	80
OP32682-MS	I82729.D	49	31	81	80	77	80
OP32682-MSD	I82730.D	49	32	80	79	76	82

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MB	BK23691.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19816-2, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	99%	36-173%
460-00-4	Bromofluorobenzene (S)	106%	36-173%

Blank Spike Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-BS	BK23692.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19816-2, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.064	90	60-140
106-93-4	1,2-Dibromoethane	0.071	0.070	99	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	96%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MS	BK23693.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
OP32696-MSD	BK23694.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
MC19724-5	BK23700.D	1	04/19/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19816-2, MC19816-3, MC19816-4, MC19816-5, MC19816-6

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0727	0.058	80	0.074	0.057	77	2	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0727	0.072	99	0.074	0.073	99	1	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
460-00-4	Bromofluorobenzene (S)	99%	93%	84%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	103%	97%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19816-2	BK23702.D	84	94
MC19816-3	BK23703.D	130	141
MC19816-4	BK23704.D	118	134
MC19816-5	BK23705.D	127	140
MC19816-6	BK23707.D	82	89
OP32696-BS	BK23692.D	96	104
OP32696-MB	BK23691.D	99	106
OP32696-MS	BK23693.D	99	104
OP32696-MSD	BK23694.D	93	103

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/18/13
Lab File ID:	BK23684.D	**Injection Time:**	19:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23685.D	04/18/13	20:02	4.45	4.89
ZZZZZZ	BK23686.D	04/18/13	20:25	4.45	4.88
ZZZZZZ	BK23687.D	04/18/13	20:48	4.45	4.88
ZZZZZZ	BK23688.D	04/18/13	21:12	4.45	4.88
ZZZZZZ	BK23689.D	04/18/13	21:36	4.45	4.88
ZZZZZZ	BK23690.D	04/18/13	22:01	4.45	4.89
OP32696-MB	BK23691.D	04/18/13	22:25	4.45	4.89
OP32696-BS	BK23692.D	04/18/13	22:49	4.45	4.89
OP32696-MS	BK23693.D	04/18/13	23:13	4.45	4.89
OP32696-MSD	BK23694.D	04/18/13	23:38	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/19/13
Lab File ID:	BK23695.D	**Injection Time:**	00:03
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23696.D	04/19/13	00:28	4.45	4.89
ZZZZZZ	BK23697.D	04/19/13	00:53	4.45	4.88
ZZZZZZ	BK23698.D	04/19/13	01:18	4.45	4.88
ZZZZZZ	BK23699.D	04/19/13	01:44	4.45	4.88
MC19724-5	BK23700.D	04/19/13	02:09	4.45	4.89
ZZZZZZ	BK23701.D	04/19/13	02:34	4.45	4.89
MC19816-2	BK23702.D	04/19/13	02:59	4.45	4.89
MC19816-3	BK23703.D	04/19/13	03:25	4.45	4.88
MC19816-4	BK23704.D	04/19/13	03:50	4.45	4.88
MC19816-5	BK23705.D	04/19/13	04:15	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19816
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/19/13
Lab File ID:	BK23706.D	**Injection Time:**	04:41
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19816-6	BK23707.D	04/19/13	05:06	4.45	4.89
ZZZZZZ	BK23708.D	04/19/13	05:31	4.45	4.88
ZZZZZZ	BK23709.D	04/19/13	05:56	4.45	4.89
ZZZZZZ	BK23710.D	04/19/13	06:19	4.45	4.88
ZZZZZZ	BK23711.D	04/19/13	06:43	4.45	4.89
ZZZZZZ	BK23712.D	04/19/13	07:06	4.45	4.89
ZZZZZZ	BK23713.D	04/19/13	07:30	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19817

Sampling Date: 04/11/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 115

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS ACCUTEST

November 1, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19817

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC19817

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19817-1	04/11/13	09:30	LRBL	04/12/13	AQ	Ground Water	P66-ROX-041113
MC19817-2	04/11/13	09:45	LRBL	04/12/13	AQ	Equipment Blank	P66-ROX-041113-EB
MC19817-3	04/11/13	10:25	LRBL	04/12/13	AQ	Ground Water	MW14-ROX-041113
MC19817-4	04/11/13	00:00	LRBL	04/12/13	AQ	Trip Blank Water	TB-ROX-041113-HCL
MC19817-5	04/11/13	00:00	LRBL	04/12/13	AQ	Trip Blank Water	TB-ROX-041113-ST
MC19817-6	04/11/13	11:40	LRBL	04/12/13	AQ	Ground Water	P74-ROX-041113
MC19817-7	04/11/13	14:00	LRBL	04/12/13	AQ	Ground Water	P57-ROX-041113
MC19817-8	04/11/13	14:55	LRBL	04/12/13	AQ	Ground Water	P58-ROX-041113
MC19817-9	04/11/13	00:00	LRBL	04/12/13	AQ	Trip Blank Water	TB-ROX-041113-HCL-A
MC19817-10	04/11/13	00:00	LRBL	04/12/13	AQ	Trip Blank Water	TB-ROX-041113-ST-A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 98 7

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** / /20 6 :34:04 A

6 Samp e(s), 4 Tr p B ank(s) were co ected on 04/ /20 3 and were rece ved at SGS Accutest New Eng and on 04/ 2/20 3 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC 98 7 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the bra y search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSH2004

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9900- 3MS, MC 9900- 3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, Acro e n, Acry on tr e are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Ethy benzene, m,p-Xy ene, Tetrach oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSH2005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9922- MS, MC 9922- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acetone, Acro e n, Acry on tr e, Carbon tetrach or de are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, 2-Ch oroethy v ny ether, Acro e n, Acry on tr e are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2-Ch oroethy v ny ether, Acro e n, Acry on tr e, Carbon d su f de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3268

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-2MS, MC 9800-2MSD were used as the QC samp es nd cated
- Samp e(s) MC 98 7-6 have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- BS/BSD/MS/MSD Recovery(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,4,5-Tr ch oropheno , 2,4,6-Tr ch oropheno , 4,6-D n tro-o-creso , Pentach oropheno are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2,4,5-Tr ch oropheno , 2-N tropheno , 4,6-D n tro-o-creso , Pentach oropheno are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32682

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9800-3MS, MC 9800-3MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32696

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9724-5MS, MC 9724-5MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC 98 7)

Summary of Hits

Job Number: MC19817
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19817-1	P66-ROX-041113					
Benzene		44.4	0.50	0.24	ug/l	SW846 8260B
n-Butylbenzene		19.9	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		24.9	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		10.4	5.0	0.64	ug/l	SW846 8260B
Chloroethane		0.65 J	2.0	0.50	ug/l	SW846 8260B
Ethylbenzene		3.6	1.0	0.51	ug/l	SW846 8260B
Isopropylbenzene		287	5.0	0.50	ug/l	SW846 8260B
p-Isopropyltoluene		9.3	5.0	0.57	ug/l	SW846 8260B
Methyl Tert Butyl Ether		86.0	1.0	0.41	ug/l	SW846 8260B
n-Propylbenzene		384	50	5.8	ug/l	SW846 8260B
Toluene		1.2	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		4.1 J	5.0	0.35	ug/l	SW846 8260B
Dibenzofuran		2.5	2.1	0.16	ug/l	SW846 8270C
Acenaphthene		1.1	0.11	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.28	0.11	0.014	ug/l	SW846 8270C BY SIM
Fluoranthene		0.072 J	0.11	0.034	ug/l	SW846 8270C BY SIM
Fluorene		1.7	0.11	0.049	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		68.1	0.21	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		13.1	0.21	0.055	ug/l	SW846 8270C BY SIM
Phenanthrene		0.91	0.053	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.087 J	0.11	0.037	ug/l	SW846 8270C BY SIM
MC19817-2	P66-ROX-041113-EB					
Benzene		2.8	0.50	0.24	ug/l	SW846 8260B
n-Propylbenzene		0.58 J	5.0	0.58	ug/l	SW846 8260B
MC19817-3	MW14-ROX-041113					
Benzene		12.5	0.50	0.24	ug/l	SW846 8260B
n-Butylbenzene		2.1 J	5.0	0.61	ug/l	SW846 8260B
sec-Butylbenzene		4.8 J	5.0	0.55	ug/l	SW846 8260B
tert-Butylbenzene		1.6 J	5.0	0.64	ug/l	SW846 8260B
Isopropylbenzene		34.6	5.0	0.50	ug/l	SW846 8260B
n-Propylbenzene		20.6	5.0	0.58	ug/l	SW846 8260B
Toluene		1.4	1.0	0.51	ug/l	SW846 8260B
m,p-Xylene		3.8	1.0	0.73	ug/l	SW846 8260B
Xylene (total)		4.3	1.0	0.58	ug/l	SW846 8260B
Acenaphthene		0.68	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.098 J	0.11	0.014	ug/l	SW846 8270C BY SIM
Benzo(a)anthracene		0.13	0.054	0.033	ug/l	SW846 8270C BY SIM
Benzo(b)fluoranthene		0.054	0.054	0.026	ug/l	SW846 8270C BY SIM
Benzo(g,h,i)perylene		0.053 J	0.11	0.041	ug/l	SW846 8270C BY SIM

Summary of Hits

Job Number: MC19817
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluoranthene		0.068 J	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		0.16	0.11	0.050	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		12.4	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		1.8	0.22	0.056	ug/l	SW846 8270C BY SIM
Phenanthrene		0.10	0.054	0.014	ug/l	SW846 8270C BY SIM
Pyrene		0.053 J	0.11	0.039	ug/l	SW846 8270C BY SIM
MC19817-4	**TB-ROX-041113-HCL**					
No hits reported in this sample.						
MC19817-5	**TB-ROX-041113-ST**					
No hits reported in this sample.						
MC19817-6	**P74-ROX-041113**					
Benzene		144	0.50	0.24	ug/l	SW846 8260B
n-Butylbenzene		2.6 J	5.0	0.61	ug/l	SW846 8260B
Ethylbenzene		8.6	1.0	0.51	ug/l	SW846 8260B
Naphthalene		1.6 J	5.0	0.50	ug/l	SW846 8260B
Toluene		3.0	1.0	0.51	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		18.4	5.0	0.35	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		13.8	5.0	0.47	ug/l	SW846 8260B
m,p-Xylene		45.6	1.0	0.73	ug/l	SW846 8260B
o-Xylene		14.6	1.0	0.58	ug/l	SW846 8260B
Xylene (total)		60.1	1.0	0.58	ug/l	SW846 8260B
Phenol		4.6 JB	5.2	0.53	ug/l	SW846 8270C
MC19817-7	**P57-ROX-041113**					
Benzene		141000	250	120	ug/l	SW846 8260B
Ethylbenzene		1190	500	250	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		494 J	2500	170	ug/l	SW846 8260B
Phenol		146	26	2.6	ug/l	SW846 8270C
Acenaphthene		0.63	0.10	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.12	0.10	0.014	ug/l	SW846 8270C BY SIM
Anthracene		0.073 J	0.10	0.018	ug/l	SW846 8270C BY SIM
Fluorene		0.76	0.10	0.047	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		34.8	0.20	0.14	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		45.3	0.20	0.053	ug/l	SW846 8270C BY SIM
Phenanthrene		0.74	0.051	0.013	ug/l	SW846 8270C BY SIM

Summary of Hits

Job Number: MC19817
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19817-8	**P58-ROX-041113**					
Benzene		532000	1000	480	ug/l	SW846 8260B
Ethylbenzene		1280 J	2000	1000	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		926 J	10000	690	ug/l	SW846 8260B
3&4-Methylphenol		14.0	11	2.2	ug/l	SW846 8270C
Phenol		98.5	27	2.8	ug/l	SW846 8270C
Dibenzofuran		4.4	2.2	0.17	ug/l	SW846 8270C
Acenaphthene		1.5	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.50	0.11	0.014	ug/l	SW846 8270C BY SIM
Benzo(a)anthracene		0.30	0.054	0.033	ug/l	SW846 8270C BY SIM
Benzo(a)pyrene		0.19	0.11	0.019	ug/l	SW846 8270C BY SIM
Benzo(b)fluoranthene		0.095	0.054	0.026	ug/l	SW846 8270C BY SIM
Benzo(g,h,i)perylene		0.074 J	0.11	0.041	ug/l	SW846 8270C BY SIM
Chrysene		0.32	0.11	0.079	ug/l	SW846 8270C BY SIM
Fluoranthene		0.19	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		2.2	0.11	0.050	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		69.2	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		96.1	2.2	0.56	ug/l	SW846 8270C BY SIM
Phenanthrene		2.1	0.054	0.014	ug/l	SW846 8270C BY SIM
Pyrene		0.55	0.11	0.039	ug/l	SW846 8270C BY SIM

MC19817-9 **TB-ROX-041113-HCL-A**

No hits reported in this sample.

MC19817-10 **TB-ROX-041113-ST-A**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60620.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2	H60652.D	10	04/22/13	KR	n/a	n/a	MSH2005

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	44.4	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	19.9	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	24.9	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	10.4	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	0.65	2.0	0.50	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	3.6	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	287	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	9.3	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	86.0	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	384 [b]	50	5.8	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	1.2	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.1	5.0	0.35	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	88%	70-130%
2037-26-5	Toluene-D8	103%	100%	70-130%
460-00-4	4-Bromofluorobenzene	113%	110%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Result is from Run# 2

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63190.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.3	0.54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	2.5	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	45%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	92%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82740.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.1	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	0.28	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	0.072	0.11	0.034	ug/l	J
86-73-7	Fluorene	1.7	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	68.1	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	13.1	0.21	0.055	ug/l	
85-01-8	Phenanthrene	0.91	0.053	0.013	ug/l	
129-00-0	Pyrene	0.087	0.11	0.037	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	43%		15-110%
118-79-6	2,4,6-Tribromophenol	74%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	64%		30-130%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113		
Lab Sample ID:	MC19817-1	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23708.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	33.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	122%		36-173%
460-00-4	Bromofluorobenzene (S)	130%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60616.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	2.8	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	0.58	5.0	0.58	ug/l	J
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63191.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.58	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82741.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	76%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-041113-EB		
Lab Sample ID:	MC19817-2	**Date Sampled:**	04/11/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23709.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	80%		36-173%
460-00-4	Bromofluorobenzene (S)	85%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60619.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	12.5	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	2.1	5.0	0.61	ug/l	J
135-98-8	sec-Butylbenzene	4.8	5.0	0.55	ug/l	J
98-06-6	tert-Butylbenzene	1.6	5.0	0.64	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	34.6	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	20.6	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	1.4	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	3.8	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	4.3	1.0	0.58	ug/l	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63192.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	92%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82742.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.68	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	0.098	0.11	0.014	ug/l	J
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	0.13	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	0.054	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.053	0.11	0.041	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	0.068	0.11	0.035	ug/l	J
86-73-7	Fluorene	0.16	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	12.4	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	1.8	0.22	0.056	ug/l	
85-01-8	Phenanthrene	0.10	0.054	0.014	ug/l	
129-00-0	Pyrene	0.053	0.11	0.039	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	73%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-041113		
Lab Sample ID:	MC19817-3	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23710.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	110%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL		
Lab Sample ID:	MC19817-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60613.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL		
Lab Sample ID:	MC19817-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL		
Lab Sample ID:	MC19817-4	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-ST		
Lab Sample ID:	MC19817-5	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23711.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	95%		36-173%
460-00-4	Bromofluorobenzene (S)	96%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60650.D	1	04/22/13	KR	n/a	n/a	MSH2005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	144	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	2.6	5.0	0.61	ug/l	J
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	8.6	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	1.6	5.0	0.50	ug/l	J
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	3.0	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	18.4	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	13.8	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	45.6	1.0	0.73	ug/l	
95-47-6	o-Xylene	14.6	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	60.1	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63193.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	4.6	5.2	0.53	ug/l	JB
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	90%		30-130%
321-60-8	2-Fluorobiphenyl	88%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82743.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-041113		
Lab Sample ID:	MC19817-6	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23712.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	82%		36-173%
460-00-4	Bromofluorobenzene (S)	87%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60632.D	500	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	1500	ug/l	
107-02-8	Acrolein [a]	ND	13000	5100	ug/l	
107-13-1	Acrylonitrile	ND	2500	1600	ug/l	
71-43-2	Benzene	141000	250	120	ug/l	
108-86-1	Bromobenzene	ND	2500	310	ug/l	
74-97-5	Bromochloromethane	ND	2500	630	ug/l	
75-27-4	Bromodichloromethane	ND	500	290	ug/l	
75-25-2	Bromoform	ND	500	390	ug/l	
74-83-9	Bromomethane	ND	1000	510	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	1200	ug/l	
104-51-8	n-Butylbenzene	ND	2500	300	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	280	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	320	ug/l	
75-15-0	Carbon disulfide	ND	2500	310	ug/l	
56-23-5	Carbon tetrachloride	ND	500	430	ug/l	
108-90-7	Chlorobenzene	ND	500	230	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	630	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	1000	370	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	320	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	240	ug/l	
124-48-1	Dibromochloromethane	ND	500	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	460	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	230	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	320	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	860	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	310	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	320	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	210	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	320	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	470	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1000	360	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	320	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	790	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	460	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	220	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	98	ug/l	
123-91-1	1,4-Dioxane	ND	13000	7400	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	410	ug/l	
100-41-4	Ethylbenzene	1190	500	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	2500	1000	ug/l	
591-78-6	2-Hexanone	ND	2500	980	ug/l	
98-82-8	Isopropylbenzene	ND	2500	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	290	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	210	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	1500	ug/l	
74-95-3	Methylene bromide	ND	2500	550	ug/l	
75-09-2	Methylene chloride	ND	1000	420	ug/l	
91-20-3	Naphthalene	ND	2500	250	ug/l	
103-65-1	n-Propylbenzene	ND	2500	290	ug/l	
100-42-5	Styrene	ND	2500	230	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	290	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	500	210	ug/l	
108-88-3	Toluene	ND	500	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	630	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	640	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	ND	500	390	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	420	ug/l	
95-63-6	1,2,4-Trimethylbenzene	494	2500	170	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2500	230	ug/l	
108-05-4	Vinyl Acetate	ND	2500	630	ug/l	
75-01-4	Vinyl chloride	ND	500	310	ug/l	
	m,p-Xylene	ND	500	370	ug/l	
95-47-6	o-Xylene	ND	500	290	ug/l	
1330-20-7	Xylene (total)	ND	500	290	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63194.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	U13745.D	5	04/24/13	NS	04/16/13	OP32681	MSU698

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	980 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	146 [a]	26	2.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%	44%	15-110%
4165-62-2	Phenol-d5	37%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	69%	15-110%
4165-60-0	Nitrobenzene-d5	88%	64%	30-130%
321-60-8	2-Fluorobiphenyl	78%	65%	30-130%
1718-51-0	Terphenyl-d14	74%	58%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82744.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.63	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	0.12	0.10	0.014	ug/l	
120-12-7	Anthracene	0.073	0.10	0.018	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.051	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.074	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	0.76	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	34.8	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	45.3	0.20	0.053	ug/l	
85-01-8	Phenanthrene	0.74	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	79%		15-110%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-041113		
Lab Sample ID:	MC19817-7	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23713.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		36-173%
460-00-4	Bromofluorobenzene (S)	147%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60633.D	2000	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20000	6000	ug/l	
107-02-8	Acrolein [a]	ND	50000	20000	ug/l	
107-13-1	Acrylonitrile	ND	10000	6500	ug/l	
71-43-2	Benzene	532000	1000	480	ug/l	
108-86-1	Bromobenzene	ND	10000	1200	ug/l	
74-97-5	Bromochloromethane	ND	10000	2500	ug/l	
75-27-4	Bromodichloromethane	ND	2000	1200	ug/l	
75-25-2	Bromoform	ND	2000	1600	ug/l	
74-83-9	Bromomethane	ND	4000	2000	ug/l	
78-93-3	2-Butanone (MEK)	ND	20000	4800	ug/l	
104-51-8	n-Butylbenzene	ND	10000	1200	ug/l	
135-98-8	sec-Butylbenzene	ND	10000	1100	ug/l	
98-06-6	tert-Butylbenzene	ND	10000	1300	ug/l	
75-15-0	Carbon disulfide	ND	10000	1200	ug/l	
56-23-5	Carbon tetrachloride	ND	2000	1700	ug/l	
108-90-7	Chlorobenzene	ND	2000	940	ug/l	
75-00-3	Chloroethane	ND	4000	1000	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10000	2500	ug/l	
67-66-3	Chloroform	ND	2000	990	ug/l	
74-87-3	Chloromethane	ND	4000	1500	ug/l	
95-49-8	o-Chlorotoluene	ND	10000	1300	ug/l	
106-43-4	p-Chlorotoluene	ND	10000	970	ug/l	
124-48-1	Dibromochloromethane	ND	2000	1100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2000	1900	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2000	900	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2000	1300	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4000	3500	ug/l	
75-34-3	1,1-Dichloroethane	ND	2000	1200	ug/l	
107-06-2	1,2-Dichloroethane	ND	2000	1300	ug/l	
75-35-4	1,1-Dichloroethene	ND	2000	820	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2000	1300	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2000	1900	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4000	1400	ug/l	
142-28-9	1,3-Dichloropropane	ND	10000	1300	ug/l	
594-20-7	2,2-Dichloropropane	ND	10000	3100	ug/l	
563-58-6	1,1-Dichloropropene	ND	10000	1800	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	900	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	390	ug/l	
123-91-1	1,4-Dioxane	ND	50000	30000	ug/l	
97-63-2	Ethyl methacrylate	ND	10000	1600	ug/l	
100-41-4	Ethylbenzene	1280	2000	1000	ug/l	J
87-68-3	Hexachlorobutadiene	ND	10000	4100	ug/l	
591-78-6	2-Hexanone	ND	10000	3900	ug/l	
98-82-8	Isopropylbenzene	ND	10000	1000	ug/l	
99-87-6	p-Isopropyltoluene	ND	10000	1100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	820	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10000	5800	ug/l	
74-95-3	Methylene bromide	ND	10000	2200	ug/l	
75-09-2	Methylene chloride	ND	4000	1700	ug/l	
91-20-3	Naphthalene	ND	10000	1000	ug/l	
103-65-1	n-Propylbenzene	ND	10000	1200	ug/l	
100-42-5	Styrene	ND	10000	910	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10000	1100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	1200	ug/l	
127-18-4	Tetrachloroethene	ND	2000	840	ug/l	
108-88-3	Toluene	ND	2000	1000	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10000	2500	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10000	2600	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	1700	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	1000	ug/l	
79-01-6	Trichloroethene	ND	2000	1600	ug/l	
75-69-4	Trichlorofluoromethane	ND	2000	570	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10000	1700	ug/l	
95-63-6	1,2,4-Trimethylbenzene	926	10000	690	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	10000	930	ug/l	
108-05-4	Vinyl Acetate	ND	10000	2500	ug/l	
75-01-4	Vinyl chloride	ND	2000	1300	ug/l	
	m,p-Xylene	ND	2000	1500	ug/l	
95-47-6	o-Xylene	ND	2000	1200	ug/l	
1330-20-7	Xylene (total)	ND	2000	1200	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63195.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2	U13746.D	5	04/24/13	NS	04/16/13	OP32681	MSU698

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2	920 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	14.0	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	98.5 [a]	27	2.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.71	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	4.4	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%	20%	15-110%
4165-62-2	Phenol-d5	31%	15%	15-110%
118-79-6	2,4,6-Tribromophenol	96%	42%	15-110%
4165-60-0	Nitrobenzene-d5	93%	49%	30-130%
321-60-8	2-Fluorobiphenyl	80%	39%	30-130%
1718-51-0	Terphenyl-d14	65%	32%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82745.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2	I82830.D	10	04/25/13	NS	04/16/13	OP32682	MSI3078

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2	920 ml	1.0 ml

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.5	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	0.50	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	0.30	0.054	0.033	ug/l	
50-32-8	Benzo(a)pyrene	0.19	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	0.095	0.054	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.074	0.11	0.041	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	0.32	0.11	0.079	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	0.19	0.11	0.035	ug/l	
86-73-7	Fluorene	2.2	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.050	ug/l	
90-12-0	1-Methylnaphthalene	69.2	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	96.1 [a]	2.2	0.56	ug/l	
85-01-8	Phenanthrene	2.1	0.054	0.014	ug/l	
129-00-0	Pyrene	0.55	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%	36%	15-110%
4165-62-2	Phenol-d5	28%	25%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	72%	15-110%
4165-60-0	Nitrobenzene-d5	77%	79%	30-130%
321-60-8	2-Fluorobiphenyl	68%	69%	30-130%
1718-51-0	Terphenyl-d14	63%	61%	30-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-041113		
Lab Sample ID:	MC19817-8	**Date Sampled:**	04/11/13
Matrix:	AQ - Ground Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23715.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	128%		36-173%
460-00-4	Bromofluorobenzene (S)	128%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL-A		
Lab Sample ID:	MC19817-9	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H60614.D	1	04/21/13	AMY	n/a	n/a	MSH2004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL-A		
Lab Sample ID:	MC19817-9	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-HCL-A		
Lab Sample ID:	MC19817-9	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041113-ST-A		
Lab Sample ID:	MC19817-10	**Date Sampled:**	04/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/12/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23716.D	1	04/19/13	NK	04/17/13	OP32696	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	92%		36-173%
460-00-4	Bromofluorobenzene (S)	102%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

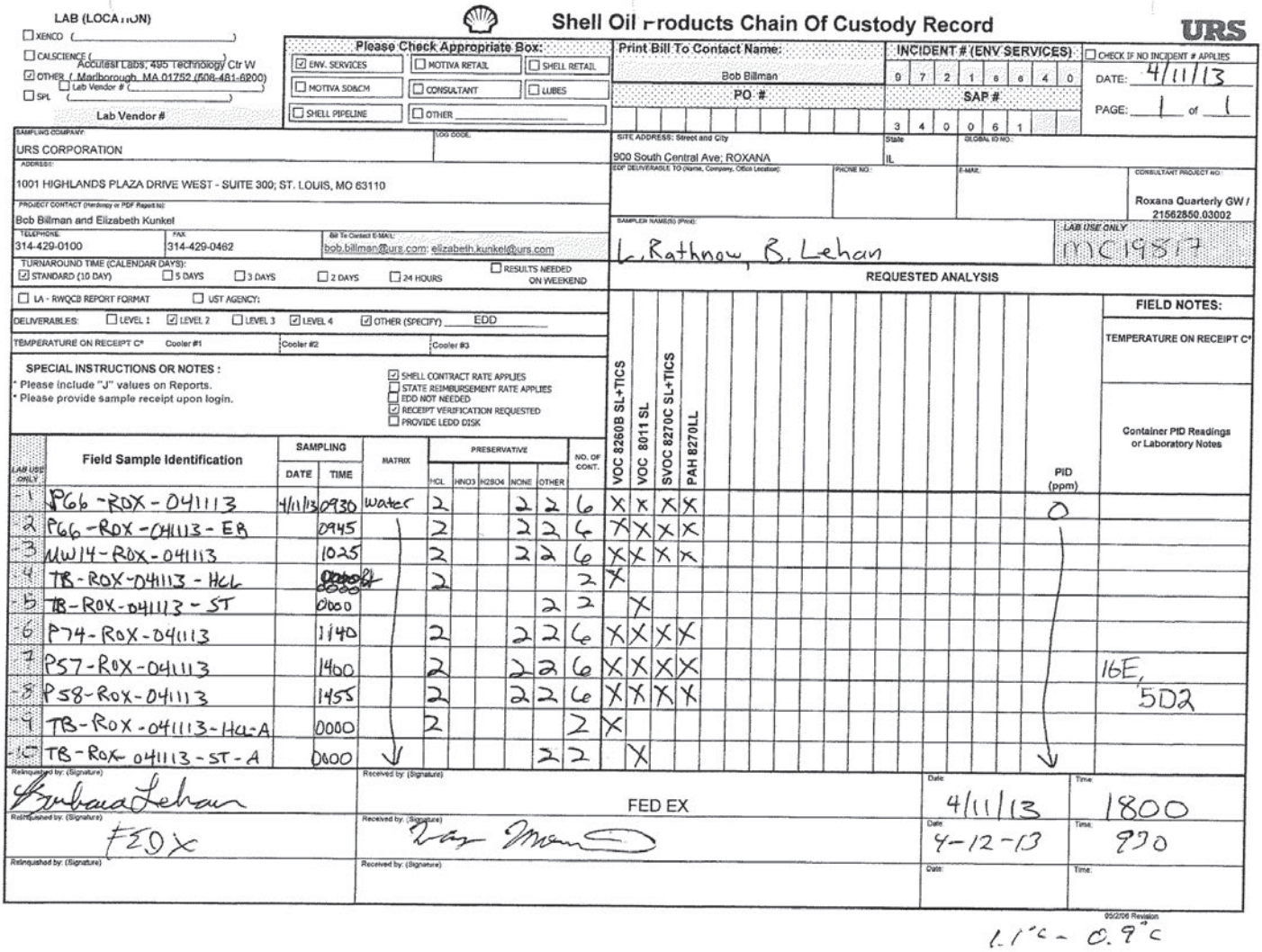
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # (_____)
☐ SPL (_____)
Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SO&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
INCIDENT # (ENV SERVICES): 0 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4/11/13
PO #:
SAP #: 3 4 0 0 6 1
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Bob Billman and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002

SAMPLER NAME(S) (Print): L. Rathnow, B. Lehan
LAB USE ONLY: MC19817

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
1	P66-ROX-041113	4/11/13	0930	water	2			2	2	6	X	X	X	X	0	
2	P66-ROX-041113-EB		0945		2			2	2	6	X	X	X	X		
3	MW14-ROX-041113		1025		2			2	2	6	X	X	X	X		
4	TB-ROX-041113-HCL		0000		2				2	2	X					
5	TB-ROX-041113-ST		0000						2	2		X				
6	P74-ROX-041113		1140		2			2	2	6	X	X	X	X		
7	P57-ROX-041113		1400		2			2	2	6	X	X	X	X		16E,
8	P58-ROX-041113		1455		2			2	2	6	X	X	X	X		5D2
9	TB-ROX-041113-HCL-A		0000		2				2	2	X					
10	TB-ROX-041113-ST-A		0000						2	2		X				

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Barbara Lehan	FED EX	4/11/13	1800
FEDX		4-12-13	930

05/2/06 Revision

1.1°C - 0.9°C

MC19817: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19817 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/12/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC19817: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19817

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19817-1 Collected: 11-APR-13 09:30 By: LRBL Received: 12-APR-13 By: P66-ROX-041113						
MC19817-1	SW846 8011	19-APR-13 05:31	NK	17-APR-13	BJ	V8011SL
MC19817-1	SW846 8270C	19-APR-13 16:29	KR	16-APR-13	PA	AB8270SL+
MC19817-1	SW846 8270C BY SIM	19-APR-13 17:15	NS	16-APR-13	PA	B8270SIMSL
MC19817-1	SW846 8260B	21-APR-13 13:53	AMY			V8260SL+
MC19817-1	SW846 8260B	22-APR-13 15:28	KR			V8260SL+
MC19817-2 Collected: 11-APR-13 09:45 By: LRBL Received: 12-APR-13 By: P66-ROX-041113-EB						
MC19817-2	SW846 8011	19-APR-13 05:56	NK	17-APR-13	BJ	V8011SL
MC19817-2	SW846 8270C	19-APR-13 16:53	KR	16-APR-13	PA	AB8270SL+
MC19817-2	SW846 8270C BY SIM	19-APR-13 17:38	NS	16-APR-13	PA	B8270SIMSL
MC19817-2	SW846 8260B	21-APR-13 12:04	AMY			V8260SL+
MC19817-3 Collected: 11-APR-13 10:25 By: LRBL Received: 12-APR-13 By: MW14-ROX-041113						
MC19817-3	SW846 8011	19-APR-13 06:19	NK	17-APR-13	BJ	V8011SL
MC19817-3	SW846 8270C	19-APR-13 17:17	KR	16-APR-13	PA	AB8270SL+
MC19817-3	SW846 8270C BY SIM	19-APR-13 18:01	NS	16-APR-13	PA	B8270SIMSL
MC19817-3	SW846 8260B	21-APR-13 13:26	AMY			V8260SL+
MC19817-4 Collected: 11-APR-13 00:00 By: LRBL Received: 12-APR-13 By: TB-ROX-041113-HCL						
MC19817-4	SW846 8260B	21-APR-13 10:42	AMY			V8260SL+
MC19817-5 Collected: 11-APR-13 00:00 By: LRBL Received: 12-APR-13 By: TB-ROX-041113-ST						
MC19817-5	SW846 8011	19-APR-13 06:43	NK	17-APR-13	BJ	V8011SL
MC19817-6 Collected: 11-APR-13 11:40 By: LRBL Received: 12-APR-13 By: P74-ROX-041113						
MC19817-6	SW846 8011	19-APR-13 07:06	NK	17-APR-13	BJ	V8011SL
MC19817-6	SW846 8270C	19-APR-13 17:41	KR	16-APR-13	PA	AB8270SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19817

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19817-6	SW846 8270C BY SIM	19-APR-13 18:24	NS	16-APR-13	PA	B8270SIMSL
MC19817-6	SW846 8260B	22-APR-13 14:32	KR			V8260SL+
MC19817-7	Collected: 11-APR-13 14:00 By: LRBL P57-ROX-041113		Received: 12-APR-13 By:			
MC19817-7	SW846 8011	19-APR-13 07:30	NK	17-APR-13	BJ	V8011SL
MC19817-7	SW846 8270C	19-APR-13 18:05	KR	16-APR-13	PA	AB8270SL+
MC19817-7	SW846 8270C BY SIM	19-APR-13 18:48	NS	16-APR-13	PA	B8270SIMSL
MC19817-7	SW846 8260B	21-APR-13 19:24	AMY			V8260SL+
MC19817-7	SW846 8270C	24-APR-13 13:19	NS	16-APR-13	PA	AB8270SL+
MC19817-8	Collected: 11-APR-13 14:55 By: LRBL P58-ROX-041113		Received: 12-APR-13 By:			
MC19817-8	SW846 8011	19-APR-13 08:18	NK	17-APR-13	BJ	V8011SL
MC19817-8	SW846 8270C	19-APR-13 18:29	KR	16-APR-13	PA	AB8270SL+
MC19817-8	SW846 8270C BY SIM	19-APR-13 19:11	NS	16-APR-13	PA	B8270SIMSL
MC19817-8	SW846 8260B	21-APR-13 19:51	AMY			V8260SL+
MC19817-8	SW846 8270C	24-APR-13 13:41	NS	16-APR-13	PA	AB8270SL+
MC19817-8	SW846 8270C BY SIM	25-APR-13 09:40	NS	16-APR-13	PA	B8270SIMSL
MC19817-9	Collected: 11-APR-13 00:00 By: LRBL TB-ROX-041113-HCL-A		Received: 12-APR-13 By:			
MC19817-9	SW846 8260B	21-APR-13 11:09	AMY			V8260SL+
MC19817-10	Collected: 11-APR-13 00:00 By: LRBL TB-ROX-041113-ST-A		Received: 12-APR-13 By:			
MC19817-10	SW846 8011	19-APR-13 08:42	NK	17-APR-13	BJ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/12/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19817-1.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-1.1	Michael Rolo		04/17/13 07:24	Depleted
MC19817-1.3	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-1.3	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-1.3	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-1.3	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC19817-1.4	VOC Ref #5	Gary Krasinski	04/22/13 14:02	Retrieve from Storage
MC19817-1.4	Gary Krasinski	GCMSH	04/22/13 14:02	Load on Instrument
MC19817-1.4	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19817-1.4	Gary Krasinski	VOC Ref #5	04/25/13 10:05	Return to Storage
MC19817-1.4	Scott Parsick		07/24/13 13:54	Disposed
MC19817-1.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-1.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-2.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-2.2	Michael Rolo		04/17/13 07:24	Depleted
MC19817-2.4	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-2.4	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-2.4	GCMSH	Kerry Ryan	04/22/13 08:55	Unload from Instrument
MC19817-2.4	Kerry Ryan	VOC Ref #5	04/22/13 11:17	Return to Storage
MC19817-2.4	Scott Parsick		07/24/13 13:54	Disposed
MC19817-2.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-2.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-3.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-3.1	Michael Rolo		04/17/13 07:24	Depleted
MC19817-3.3	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-3.3	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-3.3	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-3.3	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19817-3.4	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-3.4	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-4.2	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-4.2	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/12/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19817-4.2	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-4.2	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-4.2	Scott Parsick		07/24/13 13:54	Disposed
MC19817-5.1	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-5.1	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-6.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-6.1	Michael Rolo		04/17/13 07:24	Depleted
MC19817-6.3	VOC Ref #5	Gary Krasinski	04/22/13 14:02	Retrieve from Storage
MC19817-6.3	Gary Krasinski	GCMSH	04/22/13 14:02	Load on Instrument
MC19817-6.3	GCMSH	Gary Krasinski	04/23/13 09:22	Unload from Instrument
MC19817-6.3	Gary Krasinski	VOC Ref #5	04/25/13 10:05	Return to Storage
MC19817-6.3	Scott Parsick		07/24/13 13:54	Disposed
MC19817-6.4	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-6.4	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-6.4	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-6.4	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-6.4	Scott Parsick		07/24/13 13:54	Disposed
MC19817-6.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-6.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-7.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-7.2	Michael Rolo		04/17/13 07:24	Depleted
MC19817-7.3	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-7.3	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-7.3	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-7.3	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-7.3	Scott Parsick		07/24/13 13:54	Disposed
MC19817-7.4	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-7.4	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-8.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19817-8.2	Michael Rolo		04/17/13 07:24	Depleted
MC19817-8.3	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-8.3	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-8.3	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-8.3	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/12/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19817-8.3	Scott Parsick		07/24/13 13:54	Disposed
MC19817-8.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-8.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19817-9.1	VOC Ref #5	Amy Min Yang	04/21/13 09:09	Retrieve from Storage
MC19817-9.1	Amy Min Yang	GCMSH	04/21/13 09:10	Load on Instrument
MC19817-9.1	GCMSH	Kerry Ryan	04/22/13 08:58	Unload from Instrument
MC19817-9.1	Kerry Ryan	VOC Ref #5	04/22/13 08:58	Return to Storage
MC19817-9.1	Scott Parsick		07/24/13 13:54	Disposed
MC19817-10.1	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19817-10.1	Bijan Jafari		04/20/13 08:36	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-MB	H60611.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-MB	H60642.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	80.9	162* [a]	70-130
107-02-8	Acrolein	250	129	52* [a]	70-130
107-13-1	Acrylonitrile	50	34.6	69* [a]	70-130
71-43-2	Benzene	50	49.4	99	70-130
108-86-1	Bromobenzene	50	54.6	109	70-130
74-97-5	Bromochloromethane	50	47.2	94	70-130
75-27-4	Bromodichloromethane	50	56.9	114	70-130
75-25-2	Bromoform	50	57.1	114	70-130
74-83-9	Bromomethane	50	48.7	97	70-130
78-93-3	2-Butanone (MEK)	50	57.3	115	70-130
104-51-8	n-Butylbenzene	50	55.7	111	70-130
135-98-8	sec-Butylbenzene	50	53.4	107	70-130
98-06-6	tert-Butylbenzene	50	54.3	109	70-130
75-15-0	Carbon disulfide	50	43.0	86	70-130
56-23-5	Carbon tetrachloride	50	60.7	121	70-130
108-90-7	Chlorobenzene	50	50.5	101	70-130
75-00-3	Chloroethane	50	48.2	96	70-130
110-75-8	2-Chloroethyl vinyl ether	50	29.2	58* [a]	70-130
67-66-3	Chloroform	50	49.6	99	70-130
74-87-3	Chloromethane	50	51.2	102	70-130
95-49-8	o-Chlorotoluene	50	50.1	100	70-130
106-43-4	p-Chlorotoluene	50	53.0	106	70-130
124-48-1	Dibromochloromethane	50	55.1	110	70-130
95-50-1	1,2-Dichlorobenzene	50	52.7	105	70-130
541-73-1	1,3-Dichlorobenzene	50	54.1	108	70-130
106-46-7	1,4-Dichlorobenzene	50	53.2	106	70-130
75-71-8	Dichlorodifluoromethane	50	57.8	116	70-130
75-34-3	1,1-Dichloroethane	50	44.4	89	70-130
107-06-2	1,2-Dichloroethane	50	52.8	106	70-130
75-35-4	1,1-Dichloroethene	50	47.4	95	70-130
156-59-2	cis-1,2-Dichloroethene	50	45.0	90	70-130
156-60-5	trans-1,2-Dichloroethene	50	44.1	88	70-130
78-87-5	1,2-Dichloropropane	50	45.4	91	70-130
142-28-9	1,3-Dichloropropane	50	50.8	102	70-130
594-20-7	2,2-Dichloropropane	50	58.3	117	70-130
563-58-6	1,1-Dichloropropene	50	50.2	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	46.2	92	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	201	80	70-130
97-63-2	Ethyl methacrylate	50	43.0	86	77-137
100-41-4	Ethylbenzene	50	57.2	114	70-130
87-68-3	Hexachlorobutadiene	50	58.0	116	70-130
591-78-6	2-Hexanone	50	65.6	131* [a]	70-130
98-82-8	Isopropylbenzene	50	53.4	107	70-130
99-87-6	p-Isopropyltoluene	50	59.0	118	70-130
1634-04-4	Methyl Tert Butyl Ether	50	45.0	90	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.9	86	70-130
74-95-3	Methylene bromide	50	51.0	102	70-130
75-09-2	Methylene chloride	50	44.5	89	70-130
91-20-3	Naphthalene	50	45.3	91	70-130
103-65-1	n-Propylbenzene	50	51.2	102	70-130
100-42-5	Styrene	50	56.8	114	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	62.3	125	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	53.6	107	70-130
127-18-4	Tetrachloroethene	50	57.2	114	70-130
108-88-3	Toluene	50	49.7	99	70-130
87-61-6	1,2,3-Trichlorobenzene	50	51.1	102	70-130
120-82-1	1,2,4-Trichlorobenzene	50	52.8	106	70-130
71-55-6	1,1,1-Trichloroethane	50	53.2	106	70-130
79-00-5	1,1,2-Trichloroethane	50	48.3	97	70-130
79-01-6	Trichloroethene	50	50.1	100	70-130
75-69-4	Trichlorofluoromethane	50	53.2	106	70-130
96-18-4	1,2,3-Trichloropropane	50	51.4	103	70-130
95-63-6	1,2,4-Trimethylbenzene	50	55.5	111	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.9	112	70-130
108-05-4	Vinyl Acetate	50	49.5	99	70-130
75-01-4	Vinyl chloride	50	44.3	89	70-130
	m,p-Xylene	100	114	114	70-130
95-47-6	o-Xylene	50	55.9	112	70-130
1330-20-7	Xylene (total)	150	170	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2004-BS	H60609.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	79.1	158* [a]	70-130
107-02-8	Acrolein	250	119	48* [a]	70-130
107-13-1	Acrylonitrile	50	30.9	62* [a]	70-130
71-43-2	Benzene	50	50.1	100	70-130
108-86-1	Bromobenzene	50	57.6	115	70-130
74-97-5	Bromochloromethane	50	49.5	99	70-130
75-27-4	Bromodichloromethane	50	61.1	122	70-130
75-25-2	Bromoform	50	60.8	122	70-130
74-83-9	Bromomethane	50	50.9	102	70-130
78-93-3	2-Butanone (MEK)	50	56.6	113	70-130
104-51-8	n-Butylbenzene	50	58.6	117	70-130
135-98-8	sec-Butylbenzene	50	55.3	111	70-130
98-06-6	tert-Butylbenzene	50	56.7	113	70-130
75-15-0	Carbon disulfide	50	43.5	87	70-130
56-23-5	Carbon tetrachloride	50	67.0	134* [a]	70-130
108-90-7	Chlorobenzene	50	53.0	106	70-130
75-00-3	Chloroethane	50	48.1	96	70-130
110-75-8	2-Chloroethyl vinyl ether	50	33.8	68* [a]	70-130
67-66-3	Chloroform	50	50.7	101	70-130
74-87-3	Chloromethane	50	52.9	106	70-130
95-49-8	o-Chlorotoluene	50	52.4	105	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	59.5	119	70-130
95-50-1	1,2-Dichlorobenzene	50	55.7	111	70-130
541-73-1	1,3-Dichlorobenzene	50	56.4	113	70-130
106-46-7	1,4-Dichlorobenzene	50	55.0	110	70-130
75-71-8	Dichlorodifluoromethane	50	60.4	121	70-130
75-34-3	1,1-Dichloroethane	50	45.1	90	70-130
107-06-2	1,2-Dichloroethane	50	56.8	114	70-130
75-35-4	1,1-Dichloroethene	50	48.8	98	70-130
156-59-2	cis-1,2-Dichloroethene	50	46.4	93	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	70-130
78-87-5	1,2-Dichloropropane	50	46.6	93	70-130
142-28-9	1,3-Dichloropropane	50	53.1	106	70-130
594-20-7	2,2-Dichloropropane	50	60.4	121	70-130
563-58-6	1,1-Dichloropropene	50	53.7	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.7	95	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.0	106	70-130
123-91-1	1,4-Dioxane	250	221	88	70-130
97-63-2	Ethyl methacrylate	50	45.4	91	77-137
100-41-4	Ethylbenzene	50	58.6	117	70-130
87-68-3	Hexachlorobutadiene	50	64.4	129	70-130
591-78-6	2-Hexanone	50	64.2	128	70-130
98-82-8	Isopropylbenzene	50	55.8	112	70-130
99-87-6	p-Isopropyltoluene	50	60.8	122	70-130
1634-04-4	Methyl Tert Butyl Ether	50	47.4	95	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.5	85	70-130
74-95-3	Methylene bromide	50	55.2	110	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
91-20-3	Naphthalene	50	48.9	98	70-130
103-65-1	n-Propylbenzene	50	53.5	107	70-130
100-42-5	Styrene	50	59.2	118	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	67.3	135* [a]	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	55.0	110	70-130
127-18-4	Tetrachloroethene	50	60.2	120	70-130
108-88-3	Toluene	50	51.5	103	70-130
87-61-6	1,2,3-Trichlorobenzene	50	55.8	112	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.0	114	70-130
71-55-6	1,1,1-Trichloroethane	50	56.7	113	70-130
79-00-5	1,1,2-Trichloroethane	50	50.7	101	70-130
79-01-6	Trichloroethene	50	52.4	105	70-130
75-69-4	Trichlorofluoromethane	50	56.5	113	70-130
96-18-4	1,2,3-Trichloropropane	50	53.3	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	57.7	115	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.2	116	70-130
108-05-4	Vinyl Acetate	50	49.9	100	70-130
75-01-4	Vinyl chloride	50	45.1	90	70-130
	m,p-Xylene	100	117	117	70-130
95-47-6	o-Xylene	50	58.4	117	70-130
1330-20-7	Xylene (total)	150	176	117	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2005-BS	H60639.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	MC19900-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	186	74	250	178	71	4	70-130/30
107-02-8	Acrolein	ND		1250	692	55* a	1250	684	55* a	1	70-130/30
107-13-1	Acrylonitrile	ND		250	185	74	250	187	75	1	70-130/30
71-43-2	Benzene	ND		250	271	108	250	273	109	1	70-130/30
108-86-1	Bromobenzene	ND		250	306	122	250	307	123	0	70-130/30
74-97-5	Bromochloromethane	ND		250	265	106	250	263	105	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	290	116	250	286	114	1	70-130/30
75-25-2	Bromoform	ND		250	297	119	250	295	118	1	70-130/30
74-83-9	Bromomethane	ND		250	258	103	250	254	102	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	218	87	250	216	86	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	299	120	250	287	115	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	293	117	250	285	114	3	70-130/30
98-06-6	tert-Butylbenzene	ND		250	294	118	250	287	115	2	70-130/30
75-15-0	Carbon disulfide	ND		250	220	88	250	222	89	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	313	125	250	311	124	1	70-130/30
108-90-7	Chlorobenzene	ND		250	296	118	250	286	114	3	70-130/30
75-00-3	Chloroethane	ND		250	252	101	250	245	98	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	7.0	3* a	250	6.4	3* a	9	70-130/30
67-66-3	Chloroform	ND		250	263	105	250	252	101	4	70-130/30
74-87-3	Chloromethane	ND		250	275	110	250	265	106	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	274	110	250	272	109	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	286	114	250	277	111	3	70-130/30
124-48-1	Dibromochloromethane	ND		250	296	118	250	293	117	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	287	115	250	280	112	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	293	117	250	288	115	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	290	116	250	283	113	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	265	106	250	247	99	7	70-130/30
75-34-3	1,1-Dichloroethane	3.8		250	244	96	250	238	94	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	259	104	250	260	104	0	70-130/30
75-35-4	1,1-Dichloroethene	0.48	J	250	267	107	250	261	104	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	33.1		250	283	100	250	280	99	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	250	100	250	246	98	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	249	100	250	248	99	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	294	118	250	285	114	3	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	290	116	250	279	112	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	280	112	250	272	109	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Compound	MC19900-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	250	238	95	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	252	101	250	248	99	2	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1190	95	1250	1250	100	5	70-130/30
97-63-2	Ethyl methacrylate	ND		250	235	94	250	237	95	1	72-139/30
100-41-4	Ethylbenzene	ND		250	328	131* a	250	313	125	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	306	122	250	304	122	1	70-130/30
591-78-6	2-Hexanone	ND		250	244	98	250	245	98	0	70-130/30
98-82-8	Isopropylbenzene	ND		250	302	121	250	290	116	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	319	128	250	311	124	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	240	96	250	241	96	0	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	218	87	250	220	88	1	70-130/30
74-95-3	Methylene bromide	ND		250	273	109	250	274	110	0	70-130/30
75-09-2	Methylene chloride	ND		250	241	96	250	236	94	2	70-130/30
91-20-3	Naphthalene	ND		250	243	97	250	249	100	2	70-130/30
103-65-1	n-Propylbenzene	ND		250	286	114	250	277	111	3	70-130/30
100-42-5	Styrene	ND		250	326	130	250	316	126	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	344	138* a	250	343	137* a	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	300	120	250	300	120	0	70-130/30
127-18-4	Tetrachloroethene	0.47	J	250	336	134* a	250	320	128	5	70-130/30
108-88-3	Toluene	ND		250	278	111	250	271	108	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	264	106	250	271	108	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	276	110	250	277	111	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.3		250	293	113	250	280	108	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	261	104	250	251	100	4	70-130/30
79-01-6	Trichloroethene	2.1		250	275	109	250	268	106	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	242	97	250	231	92	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	264	106	250	265	106	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	303	121	250	296	118	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	305	122	250	300	120	2	70-130/30
108-05-4	Vinyl Acetate	ND		250	280	112	250	276	110	1	70-130/30
75-01-4	Vinyl chloride	ND		250	216	86	250	212	85	2	70-130/30
	m,p-Xylene	ND		500	655	131* a	500	637	127	3	70-130/30
95-47-6	o-Xylene	ND		250	319	128	250	311	124	3	70-130/30
1330-20-7	Xylene (total)	ND		750	974	130	750	948	126	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19900-13MS	H60622.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13MSD	H60623.D	5	04/21/13	AMY	n/a	n/a	MSH2004
MC19900-13	H60617.D	1	04/21/13	AMY	n/a	n/a	MSH2004

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-2, MC19817-3, MC19817-4, MC19817-7, MC19817-8, MC19817-9

CAS No.	Surrogate Recoveries	MS	MSD	MC19900-13	Limits
1868-53-7	Dibromofluoromethane	93%	92%	93%	70-130%
2037-26-5	Toluene-D8	99%	99%	102%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	191	76	250	176	70	8	70-130/30
107-02-8	Acrolein	ND		1250	581	46* a	1250	531	42* a	9	70-130/30
107-13-1	Acrylonitrile	ND		250	161	64* a	250	145	58* a	10	70-130/30
71-43-2	Benzene	ND		250	249	100	250	228	91	9	70-130/30
108-86-1	Bromobenzene	ND		250	279	112	250	261	104	7	70-130/30
74-97-5	Bromochloromethane	ND		250	243	97	250	228	91	6	70-130/30
75-27-4	Bromodichloromethane	ND		250	303	121	250	270	108	12	70-130/30
75-25-2	Bromoform	ND		250	299	120	250	269	108	11	70-130/30
74-83-9	Bromomethane	ND		250	250	100	250	234	94	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	192	77	250	178	71	8	70-130/30
104-51-8	n-Butylbenzene	ND		250	268	107	250	247	99	8	70-130/30
135-98-8	sec-Butylbenzene	ND		250	258	103	250	240	96	7	70-130/30
98-06-6	tert-Butylbenzene	ND		250	269	108	250	251	100	7	70-130/30
75-15-0	Carbon disulfide	ND		250	193	77	250	167	67* a	14	70-130/30
56-23-5	Carbon tetrachloride	ND		250	323	129	250	286	114	12	70-130/30
108-90-7	Chlorobenzene	ND		250	261	104	250	242	97	8	70-130/30
75-00-3	Chloroethane	ND		250	224	90	250	211	84	6	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	250	ND	0* a	nc	70-130/30
67-66-3	Chloroform	1.1		250	253	101	250	230	92	10	70-130/30
74-87-3	Chloromethane	ND		250	245	98	250	229	92	7	70-130/30
95-49-8	o-Chlorotoluene	ND		250	251	100	250	231	92	8	70-130/30
106-43-4	p-Chlorotoluene	ND		250	261	104	250	243	97	7	70-130/30
124-48-1	Dibromochloromethane	ND		250	290	116	250	268	107	8	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	266	106	250	246	98	8	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	250	100	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	270	108	250	254	102	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	278	111	250	255	102	9	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	221	88	250	199	80	10	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	283	113	250	255	102	10	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	232	93	250	210	84	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	228	91	250	209	84	9	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	221	88	250	204	82	8	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	229	92	250	208	83	10	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	265	106	250	249	100	6	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	288	115	250	266	106	8	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	257	103	250	240	96	7	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Compound	MC19922-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	237	95	250	211	84	12	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	260	104	250	233	93	11	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1010	81	1250	976	78	3	70-130/30
97-63-2	Ethyl methacrylate	ND		250	227	91	250	202	81	12	72-139/30
100-41-4	Ethylbenzene	ND		250	290	116	250	268	107	8	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	290	116	250	265	106	9	70-130/30
591-78-6	2-Hexanone	ND		250	219	88	250	205	82	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	266	106	250	247	99	7	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	290	116	250	270	108	7	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	232	93	250	209	84	10	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	206	82	250	188	75	9	70-130/30
74-95-3	Methylene bromide	ND		250	274	110	250	249	100	10	70-130/30
75-09-2	Methylene chloride	ND		250	215	86	250	200	80	7	70-130/30
91-20-3	Naphthalene	ND		250	226	90	250	213	85	6	70-130/30
103-65-1	n-Propylbenzene	ND		250	252	101	250	235	94	7	70-130/30
100-42-5	Styrene	ND		250	291	116	250	264	106	10	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	329	132* [a]	250	300	120	9	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	280	112	250	254	102	10	70-130/30
127-18-4	Tetrachloroethene	ND		250	295	118	250	274	110	7	70-130/30
108-88-3	Toluene	ND		250	256	102	250	235	94	9	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	250	100	250	237	95	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	258	103	250	239	96	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	278	111	250	250	100	11	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	255	102	250	224	90	13	70-130/30
79-01-6	Trichloroethene	ND		250	255	102	250	231	92	10	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	266	106	250	238	95	11	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	255	102	250	236	94	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	277	111	250	257	103	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	277	111	250	258	103	7	70-130/30
108-05-4	Vinyl Acetate	ND		250	255	102	250	234	94	9	70-130/30
75-01-4	Vinyl chloride	ND		250	211	84	250	198	79	6	70-130/30
	m,p-Xylene	ND		500	584	117	500	535	107	9	70-130/30
95-47-6	o-Xylene	ND		250	289	116	250	267	107	8	70-130/30
1330-20-7	Xylene (total)	ND		750	873	116	750	802	107	8	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19922-1MS	H60656.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1MSD	H60657.D	5	04/22/13	KR	n/a	n/a	MSH2005
MC19922-1	H60658.D	1	04/22/13	KR	n/a	n/a	MSH2005

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19817-1, MC19817-6

CAS No.	Surrogate Recoveries	MS	MSD	MC19922-1	Limits
1868-53-7	Dibromofluoromethane	93%	96%	89%	70-130%
2037-26-5	Toluene-D8	102%	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2004-CC1993	**Injection Date:**	04/21/13
Lab File ID:	H60608.D	**Injection Time:**	08:24
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	154965	8.70	218326	9.57	99937	12.83	129958	15.39	29574	6.28
Upper Limit [a]	309930	9.20	436652	10.07	199874	13.33	259916	15.89	59148	6.78
Lower Limit [b]	77483	8.20	109163	9.07	49969	12.33	64979	14.89	14787	5.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2004-BS	163020	8.70	229494	9.57	104143	12.83	133312	15.39	33441	6.27
MSH2004-MB	145550	8.70	197728	9.57	84013	12.83	101252	15.40	29106	6.28
ZZZZZZ	147365	8.70	203260	9.57	87132	12.83	102479	15.40	27781	6.29
MC19817-4	144580	8.70	194111	9.57	83290	12.83	97794	15.40	27275	6.28
MC19817-9	141022	8.70	189693	9.57	82031	12.83	98340	15.40	27036	6.27
ZZZZZZ	142710	8.70	190282	9.57	81102	12.83	96563	15.40	25281	6.28
MC19817-2	145496	8.70	194678	9.57	82263	12.83	100439	15.40	28858	6.28
MC19900-13	142470	8.70	192688	9.57	82532	12.83	99547	15.40	27747	6.28
ZZZZZZ	138544	8.70	188517	9.57	80004	12.83	91400	15.40	27888	6.29
MC19817-3	143120	8.70	198907	9.57	82208	12.83	101868	15.39	27880	6.28
MC19817-1	156028	8.70	212661	9.56	91569	12.83	119347	15.39	28890	6.28
ZZZZZZ	173931	8.70	233175	9.57	97601	12.83	123210	15.40	35917	6.28
MC19900-13MS	189888	8.70	268508	9.57	114380	12.83	148674	15.39	37942	6.27
MC19900-13MSD	193472	8.70	271159	9.57	117784	12.83	151552	15.39	38346	6.28
ZZZZZZ	175882	8.70	246929	9.57	98499	12.83	119937	15.40	34796	6.27
ZZZZZZ	181038	8.70	259902	9.57	101898	12.83	119582	15.40	36324	6.28
ZZZZZZ	168624	8.70	230539	9.57	94123	12.83	111269	15.40	33289	6.28
ZZZZZZ	159092	8.70	226057	9.57	89699	12.83	104812	15.40	31168	6.28
ZZZZZZ	150930	8.70	216411	9.57	86931	12.83	100037	15.40	28783	6.28
ZZZZZZ	145114	8.70	217266	9.57	84982	12.83	95656	15.40	27874	6.27
MC19817-7	145551	8.70	207135	9.57	84782	12.83	100392	15.40	27657	6.27
MC19817-8	138148	8.70	196399	9.57	79531	12.83	94309	15.40	26066	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSH2005-CC1993	**Injection Date:**	04/22/13
Lab File ID:	H60638.D	**Injection Time:**	08:42
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145518	8.70	203839	9.57	92365	12.82	122447	15.39	25920	6.27
Upper Limit [a]	291036	9.20	407678	10.07	184730	13.32	244894	15.89	51840	6.77
Lower Limit [b]	72759	8.20	101920	9.07	46183	12.32	61224	14.89	12960	5.77
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2005-BS	153131	8.70	210431	9.57	97000	12.82	124939	15.39	29597	6.27
MSH2005-MB	141357	8.70	190495	9.57	79390	12.83	97297	15.40	27529	6.28
ZZZZZZ	145372	8.70	194657	9.57	82893	12.82	97308	15.40	28465	6.27
ZZZZZZ	136877	8.70	185060	9.57	78268	12.83	93270	15.40	25790	6.28
ZZZZZZ	140480	8.70	184085	9.57	79168	12.83	102070	15.39	26872	6.28
ZZZZZZ	151215	8.70	205268	9.57	84612	12.83	112538	15.39	30302	6.28
ZZZZZZ	145544	8.70	190398	9.57	82699	12.83	96284	15.40	25141	6.28
MC19817-6	146421	8.70	207407	9.56	83715	12.83	105266	15.39	26809	6.27
ZZZZZZ	77186	8.70	103196	9.57	43628[c]	12.82	51114[c]	15.39	13455	6.28
MC19817-1	137069	8.70	186849	9.57	80208	12.83	101333	15.40	28083	6.28
ZZZZZZ	139308	8.70	192444	9.57	79270	12.83	94053	15.40	26423	6.28
ZZZZZZ	137830	8.70	187984	9.57	78530	12.83	94049	15.40	27423	6.28
ZZZZZZ	133472	8.70	185664	9.57	77724	12.83	92782	15.40	26452	6.27
MC19922-1MS	142688	8.70	195289	9.57	89389	12.82	119300	15.39	27185	6.27
MC19922-1MSD	147065	8.70	202105	9.57	90566	12.83	118534	15.39	27790	6.27
MC19922-1	145886	8.70	197741	9.57	83263	12.83	102309	15.39	29211	6.27
ZZZZZZ	141347	8.70	190076	9.57	79817	12.83	96540	15.39	27936	6.28
ZZZZZZ	134414	8.70	178829	9.57	75395	12.83	86839	15.40	25563	6.28
ZZZZZZ	135303	8.70	177608	9.57	77080	12.83	86755	15.40	26425	6.27
ZZZZZZ	133099	8.70	178493	9.57	76610	12.83	88204	15.40	27318	6.28

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19817-1	H60652.D	88	100	110
MC19817-1	H60620.D	86	103	113
MC19817-2	H60616.D	87	103	111
MC19817-3	H60619.D	90	97	114
MC19817-4	H60613.D	90	102	114
MC19817-6	H60650.D	89	98	110
MC19817-7	H60632.D	89	99	112
MC19817-8	H60633.D	88	98	112
MC19817-9	H60614.D	91	103	111
MC19900-13MS	H60622.D	93	99	106
MC19900-13MSD	H60623.D	92	99	105
MC19922-1MS	H60656.D	93	102	105
MC19922-1MSD	H60657.D	96	99	105
MSH2004-BS	H60609.D	96	101	106
MSH2004-MB	H60611.D	90	102	111
MSH2005-BS	H60639.D	94	101	104
MSH2005-MB	H60642.D	89	103	113

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	3.5	5.0	0.51	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	88%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MB	I82727.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	15-110%
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.5	36	30-130
95-57-8	2-Chlorophenol	100	108	108	30-130
59-50-7	4-Chloro-3-methyl phenol	100	113	113	30-130
120-83-2	2,4-Dichlorophenol	100	120	120	30-130
105-67-9	2,4-Dimethylphenol	100	110	110	30-130
51-28-5	2,4-Dinitrophenol	100	119	119	30-130
534-52-1	4,6-Dinitro-o-cresol	100	127	127	30-130
95-48-7	2-Methylphenol	100	90.0	90	30-130
	3&4-Methylphenol	200	183	92	30-130
88-75-5	2-Nitrophenol	100	123	123	30-130
100-02-7	4-Nitrophenol	100	59.8	60	30-130
87-86-5	Pentachlorophenol	100	125	125	30-130
108-95-2	Phenol	100	56.2	56	30-130
95-95-4	2,4,5-Trichlorophenol	100	130	130	30-130
88-06-2	2,4,6-Trichlorophenol	100	126	126	30-130
62-53-3	Aniline	50	19.9	40	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.9	92	40-140
85-68-7	Butyl benzyl phthalate	50	46.0	92	40-140
100-51-6	Benzyl Alcohol	50	28.2	56	40-140
91-58-7	2-Chloronaphthalene	50	46.6	93	40-140
106-47-8	4-Chloroaniline	50	32.1	64	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	45.6	91	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.7	85	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	51.9	104	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.9	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.8	92	40-140
121-14-2	2,4-Dinitrotoluene	50	47.2	94	40-140
606-20-2	2,6-Dinitrotoluene	50	50.3	101	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.9	12* [a]	40-140
132-64-9	Dibenzofuran	50	44.3	89	40-140
84-74-2	Di-n-butyl phthalate	50	46.2	92	40-140
117-84-0	Di-n-octyl phthalate	50	52.3	105	40-140
84-66-2	Diethyl phthalate	50	44.8	90	40-140
131-11-3	Dimethyl phthalate	50	33.3	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.4	97	40-140
118-74-1	Hexachlorobenzene	50	46.8	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	17.7	35* [a]	40-140
67-72-1	Hexachloroethane	50	38.5	77	40-140
78-59-1	Isophorone	50	49.0	98	40-140
88-74-4	2-Nitroaniline	50	47.8	96	40-140
99-09-2	3-Nitroaniline	50	35.6	71	40-140
100-01-6	4-Nitroaniline	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	44.7	89	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	48.2	96	40-140
86-30-6	N-Nitrosodiphenylamine	50	45.4	91	40-140
110-86-1	Pyridine	50	21.8	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	15-110%
4165-62-2	Phenol-d5	38%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	93%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-BS	I82728.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	31.2	62	40-140
120-12-7	Anthracene	50	40.8	82	40-140
56-55-3	Benzo(a)anthracene	50	41.3	83	40-140
50-32-8	Benzo(a)pyrene	50	36.5	73	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	40-140
207-08-9	Benzo(k)fluoranthene	50	42.4	85	40-140
218-01-9	Chrysene	50	39.4	79	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.3	81	40-140
206-44-0	Fluoranthene	50	41.3	83	40-140
86-73-7	Fluorene	50	37.2	74	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	40-140
90-12-0	1-Methylnaphthalene	50	38.4	77	40-140
91-57-6	2-Methylnaphthalene	50	37.8	76	40-140
85-01-8	Phenanthrene	50	40.6	81	40-140
129-00-0	Pyrene	50	40.8	82	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	81%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: Method: SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	60.7	61	100	59.1	59	3	30-130/20
95-57-8	2-Chlorophenol	ND		100	111	111	100	112	112	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	119	119	100	117	117	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	126	126	100	125	125	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	113	113	100	114	114	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	128	128	100	123	123	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	136	136* [a]	100	135	135* [a]	1	30-130/20
95-48-7	2-Methylphenol	ND		100	91.3	91	100	92.1	92	1	30-130/20
	3&4-Methylphenol	ND		200	189	95	200	185	93	2	30-130/20
88-75-5	2-Nitrophenol	ND		100	130	130	100	131	131* [a]	1	30-130/20
100-02-7	4-Nitrophenol	ND		100	60.9	61	100	60.6	61	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	138	138* [a]	100	131	131* [a]	5	30-130/20
108-95-2	Phenol	2.7	J	100	52.1	49	100	52.5	50	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	137	137* [a]	100	134	134* [a]	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	134	134* [a]	100	130	130	3	30-130/20
62-53-3	Aniline	ND		50	21.8	44	50	23.2	46	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.8	94	50	46.2	92	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	48.3	97	50	47.2	94	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	29.3	59	50	31.4	63	7	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.9	96	50	47.7	95	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	30.6	61	50	29.7	59	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.6	91	50	45.6	91	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.7	85	50	44.6	89	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	52.1	104	50	51.9	104	0	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	47.3	95	50	46.8	94	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	47.2	94	50	47.8	96	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	47.8	96	50	47.4	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	50.5	101	50	50.6	101	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	5.7	11* [b]	50	6.0	12* [b]	5	40-140/20
132-64-9	Dibenzofuran	ND		50	45.4	91	50	44.4	89	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	47.1	94	50	46.2	92	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.1	108	50	52.5	105	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	46.0	92	50	45.2	90	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	37.5	75	50	35.4	71	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	3.1		50	49.8	93	50	48.8	91	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.9	98	50	48.0	96	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: Method: SW846 8270C

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	19.2	38* b	50	18.4	37* b	4	40-140/20
67-72-1	Hexachloroethane	ND		50	40.2	80	50	42.2	84	5	40-140/20
78-59-1	Isophorone	ND		50	49.2	98	50	49.8	100	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	48.3	97	50	48.4	97	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	32.1	64	50	32.7	65	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.5	85	50	43.4	87	2	40-140/20
98-95-3	Nitrobenzene	ND		50	45.1	90	50	47.0	94	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.7	55	50	28.3	57	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.9	96	50	48.3	97	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.1	94	50	46.1	92	2	40-140/20
110-86-1	Pyridine	ND		50	21.9	44	50	21.2	42	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-2	Limits
367-12-4	2-Fluorophenol	52%	53%	49%	15-110%
4165-62-2	Phenol-d5	35%	35%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	95%	95%	98%	15-110%
4165-60-0	Nitrobenzene-d5	93%	95%	89%	30-130%
321-60-8	2-Fluorobiphenyl	91%	92%	87%	30-130%
1718-51-0	Terphenyl-d14	91%	93%	93%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MS	I82729.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
OP32682-MSD	I82730.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
MC19800-3	I82731.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19817-1, MC19817-2, MC19817-3, MC19817-6, MC19817-7, MC19817-8

CAS No.	Compound	MC19800-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	39.9	80	50	40.1	80	1	40-140/20
208-96-8	Acenaphthylene	ND		50	31.6	63	50	31.8	64	1	40-140/20
120-12-7	Anthracene	ND		50	41.3	83	50	41.2	82	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	41.8	84	50	41.9	84	0	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	36.8	74	50	37.2	74	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	38.3	77	50	39.4	79	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	45.4	91	50	45.9	92	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	43.6	87	50	42.5	85	3	40-140/20
218-01-9	Chrysene	ND		50	40.4	81	50	39.9	80	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	40.3	81	50	40.6	81	1	40-140/20
206-44-0	Fluoranthene	ND		50	41.9	84	50	41.7	83	0	40-140/20
86-73-7	Fluorene	ND		50	37.6	75	50	37.4	75	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	39.8	80	50	40.0	80	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	40.0	80	50	39.9	80	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.3	79	50	39.2	78	0	40-140/20
85-01-8	Phenanthrene	ND		50	41.4	83	50	41.1	82	1	40-140/20
129-00-0	Pyrene	ND		50	41.7	83	50	41.5	83	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-3	Limits
367-12-4	2-Fluorophenol	49%	49%	44%	15-110%
4165-62-2	Phenol-d5	31%	32%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	80%	78%	15-110%
4165-60-0	Nitrobenzene-d5	80%	79%	77%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	78%	30-130%
1718-51-0	Terphenyl-d14	80%	82%	81%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2952-CC2937	**Injection Date:**	04/19/13
Lab File ID:	F63169.D	**Injection Time:**	08:03
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	26965	4.06	100596	5.05	64690	6.49	121165	7.84	140401	10.63	125531	12.10
Upper Limit [a]	53930	4.56	201192	5.55	129380	6.99	242330	8.34	280802	11.13	251062	12.60
Lower Limit [b]	13483	3.56	50298	4.55	32345	5.99	60583	7.34	70201	10.13	62766	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32681-MB	21226	4.06	79894	5.05	51442	6.49	95555	7.84	108323	10.62	100710	12.10
OP32681-BS	21277	4.06	80083	5.06	51007	6.49	96593	7.85	109464	10.63	101150	12.10
OP32681-MS	21834	4.06	81093	5.05	51106	6.49	95945	7.85	107570	10.63	97193	12.10
OP32681-MSD	19466	4.06	73354	5.05	46863	6.49	88333	7.84	99932	10.63	91498	12.10
MC19800-2	18953	4.06	72238	5.05	46161	6.49	85827	7.84	96461	10.62	91108	12.09
ZZZZZZ	18531	4.06	71378	5.05	45366	6.49	82508	7.84	98329	10.62	93986	12.10
ZZZZZZ	20715	4.06	76937	5.05	48376	6.49	86774	7.84	107848	10.62	101918	12.10
ZZZZZZ	20319	4.06	77713	5.05	49940	6.49	93335	7.84	107821	10.63	102870	12.10
ZZZZZZ	20374	4.06	74799	5.05	48121	6.49	88844	7.84	101827	10.62	98665	12.10
ZZZZZZ	23166	4.06	85839	5.05	54949	6.49	102196	7.84	115402	10.62	110980	12.10
ZZZZZZ	19637	4.06	74741	5.05	46722	6.49	86792	7.84	98279	10.62	88652	12.10
ZZZZZZ	17899	4.06	67412	5.05	42872	6.49	78035	7.84	89138	10.62	81087	12.10
ZZZZZZ	18353	4.06	69053	5.05	44757	6.49	79546	7.84	91283	10.62	84577	12.10
ZZZZZZ	19039	4.06	67789	5.05	42435	6.49	75658	7.84	92757	10.63	90851	12.10
ZZZZZZ	17484	4.06	65541	5.05	41935	6.49	75092	7.84	85083	10.62	78046	12.10
ZZZZZZ	16753	4.06	64226	5.05	40927	6.49	74940	7.84	85678	10.62	79138	12.10
MC19817-1	21424	4.06	78351	5.05	47525	6.49	87765	7.84	100055	10.62	92231	12.10
MC19817-2	14882	4.06	56289	5.05	36520	6.49	66449	7.84	76983	10.62	71026	12.09
MC19817-3	17836	4.06	66536	5.05	41919	6.49	76671	7.84	88686	10.62	81904	12.10
MC19817-6	17739	4.06	67482	5.05	42611	6.49	79842	7.84	91406	10.62	85552	12.09
MC19817-7	16939	4.06	63790	5.05	41000	6.49	74543	7.84	86084	10.62	79340	12.10
MC19817-8	19408	4.06	70122	5.05	42447	6.49	77859	7.84	92969	10.62	85770	12.09
ZZZZZZ	18126	4.06	67802	5.05	43620	6.49	77842	7.84	87315	10.63	81870	12.10
ZZZZZZ	16406	4.06	62419	5.05	39403	6.49	72880	7.84	84791	10.62	75333	12.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	179692	3.39	460156	4.35	237134	5.75	434209	6.98	344879	9.71	639898	11.10
Upper Limit [a]	359384	3.89	920312	4.85	474268	6.25	868418	7.48	689758	10.21	1279796	11.60
Lower Limit [b]	89846	2.89	230078	3.85	118567	5.25	217105	6.48	172440	9.21	319949	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32693-MB	139424	3.38	358365	4.35	182528	5.75	318374	6.98	250282	9.70	486696	11.10
OP32693-BS	139690	3.38	355246	4.35	183610	5.75	323862	6.99	256817	9.71	499776	11.10
OP32693-MS	130368	3.38	333129	4.35	171280	5.75	301573	6.98	237538	9.71	463846	11.10
OP32693-MSD	125331	3.38	320948	4.35	165486	5.74	297198	6.98	233451	9.70	451858	11.09
MC19800-9	144481	3.38	377139	4.35	189735	5.74	326402	6.98	266470	9.70	515316	11.09
ZZZZZZ	131278	3.38	334825	4.35	163915	5.74	287165	6.98	232011	9.70	458538	11.10
ZZZZZZ	122472	3.38	323344	4.35	167074	5.74	292322	6.98	238730	9.70	465652	11.09
OP32682-MB	148798	3.38	379002	4.35	194285	5.74	343460	6.98	278659	9.70	542303	11.09
OP32682-BS	153296	3.39	386293	4.35	198122	5.75	354075	6.99	274577	9.71	521264	11.10
OP32682-MS	155723	3.39	391581	4.35	201115	5.75	357436	6.99	274726	9.71	525274	11.10
OP32682-MSD	146672	3.39	374500	4.35	193256	5.75	346963	6.99	272228	9.71	525153	11.10
MC19800-3	157230	3.38	402876	4.35	203336	5.74	358154	6.98	279045	9.70	551300	11.10
ZZZZZZ	150080	3.38	382672	4.35	196813	5.74	351141	6.98	283440	9.70	565244	11.09
ZZZZZZ	137342	3.39	341792	4.35	173991	5.74	308917	6.98	247995	9.70	490916	11.09
ZZZZZZ	151165	3.39	373443	4.35	189460	5.74	335217	6.98	270943	9.70	532909	11.09
ZZZZZZ	174567	3.39	458604	4.35	224352	5.75	394969	6.98	312619	9.71	602698	11.10
ZZZZZZ	149620	3.39	388888	4.35	201733	5.75	364947	6.98	299036	9.70	580990	11.10
ZZZZZZ	145419	3.39	372209	4.35	193062	5.75	347268	6.98	283829	9.70	562118	11.10
ZZZZZZ	154647	3.39	396581	4.35	200338	5.74	352331	6.98	283827	9.71	546027	11.10
ZZZZZZ	153832	3.38	398126	4.35	203856	5.74	358521	6.98	292968	9.70	571587	11.10
MC19817-1	140627	3.38	367318	4.35	183513	5.75	337924	6.98	279273	9.71	547113	11.10
MC19817-2	124448	3.38	327531	4.35	173742	5.74	309890	6.98	258582	9.70	503738	11.10
MC19817-3	144516	3.38	373750	4.35	192239	5.74	349202	6.98	292199	9.71	574680	11.10
MC19817-6	141757	3.38	378382	4.35	196962	5.75	359156	6.98	302709	9.70	592309	11.10
MC19817-7	150396	3.39	398302	4.35	206391	5.75	372293	6.98	314997	9.71	621297	11.10
MC19817-8	136149	3.39	356418	4.36	185150	5.75	333478	6.99	275713	9.71	529195	11.10
ZZZZZZ	142746	3.38	376341	4.35	192528	5.75	351934	6.99	292685	9.71	548493	11.11
ZZZZZZ	152229	3.38	407303	4.35	214602	5.74	380880	6.98	327110	9.71	617058	11.10
ZZZZZZ	129337	3.39	342167	4.35	182913	5.74	332736	6.98	285283	9.70	558557	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3078-CC3044	**Injection Date:**	04/25/13
Lab File ID:	I82829.D	**Injection Time:**	09:18
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	201878	3.38	495656	4.35	260023	5.75	475372	6.98	373731	9.71	698102	11.10
Upper Limit [a]	403756	3.88	991312	4.85	520046	6.25	950744	7.48	747462	10.21	1396204	11.60
Lower Limit [b]	100939	2.88	247828	3.85	130012	5.25	237686	6.48	186866	9.21	349051	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19817-8	138465	3.38	339557	4.35	167611	5.74	308742	6.98	256659	9.70	496196	11.10
ZZZZZZ	110315	3.39	282740	4.35	147816	5.74	259064	6.98	210111	9.70	416568	11.09
ZZZZZZ	118015	3.39	305887	4.35	161107	5.74	281207	6.98	228028	9.70	452291	11.10
ZZZZZZ	149290	3.38	373278	4.35	191893	5.74	321577	6.98	253868	9.71	488295	11.10
ZZZZZZ	154483	3.38	400775	4.35	200798	5.74	341282	6.98	273701	9.70	522456	11.10
ZZZZZZ	153536	3.38	390417	4.35	196509	5.74	330680	6.98	266158	9.70	508299	11.10
ZZZZZZ	117941	3.38	306610	4.35	154974	5.74	267939	6.98	215440	9.70	419771	11.10
ZZZZZZ	149531	3.38	381789	4.35	187221	5.74	324216	6.98	261573	9.70	508438	11.10
ZZZZZZ	143159	3.38	369167	4.35	188794	5.74	324536	6.98	266545	9.70	512193	11.10
ZZZZZZ	145731	3.38	366875	4.35	185096	5.75	321624	6.98	259558	9.71	484912	11.11
ZZZZZZ	134443	3.38	343797	4.35	176369	5.74	304887	6.99	247309	9.71	463276	11.11
ZZZZZZ	123070	3.38	324319	4.35	167896	5.75	296471	6.99	242276	9.71	459046	11.11
OP32792-BS	149081	3.39	384658	4.35	204907	5.75	373501	6.99	279338	9.71	510384	11.10
OP32792-MS	135841	3.39	348883	4.35	182290	5.75	325164	6.99	233263	9.71	430582	11.10
OP32792-MSD	137585	3.39	359096	4.35	189668	5.75	338334	6.99	245099	9.71	450590	11.10
ZZZZZZ	155352	3.39	407260	4.35	209515	5.74	351696	6.98	255867	9.71	460473	11.10
MC19894-2	133003	3.39	349182	4.35	181484	5.74	315509	6.98	245558	9.71	444438	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU698-CC623	**Injection Date:**	04/24/13
Lab File ID:	U13741.D	**Injection Time:**	11:53
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	118113	2.86	424400	3.83	273757	5.21	471959	6.41	508710	9.07	485229	10.59
Upper Limit [a]	236226	3.36	848800	4.33	547514	5.71	943918	6.91	1017420	9.57	970458	11.09
Lower Limit [b]	59057	2.36	212200	3.33	136879	4.71	235980	5.91	254355	8.57	242615	10.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	145205	2.86	540622	3.81	319563	5.21	563287	6.40	617738	9.06	568396	10.58
ZZZZZZ	145897	2.86	547273	3.82	331656	5.21	590400	6.40	645543	9.06	612102	10.59
ZZZZZZ	141208	2.86	521647	3.81	319734	5.21	557534	6.40	592943	9.06	557974	10.58
MC19817-7	144084	2.86	527521	3.82	315201	5.21	557560	6.40	604015	9.06	561806	10.58
MC19817-8	113587	2.86	416581	3.82	256355	5.21	460136	6.40	523925	9.05	498179	10.58
ZZZZZZ	135778	2.86	496148	3.81	298910	5.21	530571	6.40	617127	9.06	578428	10.59
ZZZZZZ	138329	2.86	513288	3.81	319799	5.21	547555	6.40	621509	9.06	586036	10.58
ZZZZZZ	136755	2.86	510076	3.81	311542	5.21	553431	6.40	620086	9.06	587331	10.59
OP32739-MB	130209	2.86	478843	3.81	282881	5.21	488333	6.40	498093	9.06	451652	10.58
OP32739-BS	136850	2.86	483229	3.82	287991	5.21	477718	6.40	495135	9.06	437305	10.58
ZZZZZZ	122656	2.86	450860	3.81	265337	5.21	441761	6.40	435906	9.05	388132	10.58
ZZZZZZ	124641	2.86	456174	3.81	274224	5.21	477263	6.40	508729	9.05	446132	10.58
ZZZZZZ	119797	2.86	435359	3.82	200055	5.23	249462	6.45	363621	9.15	403355	10.67
ZZZZZZ	97453	2.86	342301	3.82	172858	5.24	220808*	6.46	318477	9.17	362806	10.70
ZZZZZZ	84096	2.86	303493	3.82	193899	5.21	347289	6.40	399933	9.06	369780	10.59
ZZZZZZ	93271	2.86	341059	3.82	216267	5.21	389886	6.40	440664	9.06	409907	10.59
ZZZZZZ	111436	2.86	399852	3.81	247037	5.21	416359	6.40	397321	9.06	333180	10.59
ZZZZZZ	108668	2.86	390635	3.82	246629	5.21	421283	6.40	445727	9.06	400674	10.59
ZZZZZZ	97078	2.86	346164	3.82	209691	5.21	359215	6.40	402178	9.07	370891	10.60
ZZZZZZ	46767*	2.86	146936*	3.82	113178*	5.21	149426*	6.42	99243*	9.18	82380*	10.77

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19817-1	F63190.D	48	45	94	92	86	68
MC19817-2	F63191.D	47	31	96	81	77	95
MC19817-3	F63192.D	43	31	92	86	85	83
MC19817-6	F63193.D	49	32	94	90	88	71
MC19817-7	U13745.D	44	28	69	64	65	58
MC19817-7	F63194.D	55	37	97	88	78	74
MC19817-8	U13746.D	20	15	42	49	39	32
MC19817-8	F63195.D	41	31	96	93	80	65
OP32681-BS	F63171.D	56	38	97	93	90	90
OP32681-MB	F63170.D	53	34	97	92	88	89
OP32681-MS	F63172.D	52	35	95	93	91	91
OP32681-MSD	F63173.D	53	35	95	95	92	93

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19817-1	I82740.D	45	43	74	74	75	64
MC19817-2	I82741.D	42	31	76	71	70	89
MC19817-3	I82742.D	40	30	73	73	73	77
MC19817-6	I82743.D	43	30	77	76	76	68
MC19817-7	I82744.D	49	34	79	69	69	69
MC19817-8	I82830.D	36	25	72	79	69	61
MC19817-8	I82745.D	37	28	78	77	68	63
OP32682-BS	I82728.D	50	33	81	80	76	81
OP32682-MB	I82727.D	48	33	79	81	78	80
OP32682-MS	I82729.D	49	31	81	80	77	80
OP32682-MSD	I82730.D	49	32	80	79	76	82

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MB	BK23691.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19817-1, MC19817-2, MC19817-3, MC19817-5, MC19817-6, MC19817-7, MC19817-8, MC19817-10

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	99%	36-173%
460-00-4	Bromofluorobenzene (S)	106%	36-173%

Blank Spike Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-BS	BK23692.D	1	04/18/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19817-1, MC19817-2, MC19817-3, MC19817-5, MC19817-6, MC19817-7, MC19817-8, MC19817-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.064	90	60-140
106-93-4	1,2-Dibromoethane	0.071	0.070	99	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	96%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32696-MS	BK23693.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
OP32696-MSD	BK23694.D	1	04/18/13	NK	04/17/13	OP32696	GBK833
MC19724-5	BK23700.D	1	04/19/13	NK	04/17/13	OP32696	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19817-1, MC19817-2, MC19817-3, MC19817-5, MC19817-6, MC19817-7, MC19817-8, MC19817-10

CAS No.	Compound	MC19724-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0727	0.058	80	0.074	0.057	77	2	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0727	0.072	99	0.074	0.073	99	1	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19724-5	Limits
460-00-4	Bromofluorobenzene (S)	99%	93%	84%	36-173%
460-00-4	Bromofluorobenzene (S)	104%	103%	97%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19817-1	BK23708.D	122	130
MC19817-2	BK23709.D	80	85
MC19817-3	BK23710.D	110	127
MC19817-5	BK23711.D	95	96
MC19817-6	BK23712.D	82	87
MC19817-7	BK23713.D	118	147
MC19817-8	BK23715.D	128	128
MC19817-10	BK23716.D	92	102
OP32696-BS	BK23692.D	96	104
OP32696-MB	BK23691.D	99	106
OP32696-MS	BK23693.D	99	104
OP32696-MSD	BK23694.D	93	103

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/18/13
Lab File ID:	BK23684.D	**Injection Time:**	19:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23685.D	04/18/13	20:02	4.45	4.89
ZZZZZZ	BK23686.D	04/18/13	20:25	4.45	4.88
ZZZZZZ	BK23687.D	04/18/13	20:48	4.45	4.88
ZZZZZZ	BK23688.D	04/18/13	21:12	4.45	4.88
ZZZZZZ	BK23689.D	04/18/13	21:36	4.45	4.88
ZZZZZZ	BK23690.D	04/18/13	22:01	4.45	4.89
OP32696-MB	BK23691.D	04/18/13	22:25	4.45	4.89
OP32696-BS	BK23692.D	04/18/13	22:49	4.45	4.89
OP32696-MS	BK23693.D	04/18/13	23:13	4.45	4.89
OP32696-MSD	BK23694.D	04/18/13	23:38	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/19/13
Lab File ID:	BK23706.D	**Injection Time:**	04:41
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23707.D	04/19/13	05:06	4.45	4.89
MC19817-1	BK23708.D	04/19/13	05:31	4.45	4.88
MC19817-2	BK23709.D	04/19/13	05:56	4.45	4.89
MC19817-3	BK23710.D	04/19/13	06:19	4.45	4.88
MC19817-5	BK23711.D	04/19/13	06:43	4.45	4.89
MC19817-6	BK23712.D	04/19/13	07:06	4.45	4.89
MC19817-7	BK23713.D	04/19/13	07:30	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19817
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/19/13
Lab File ID:	BK23714.D	**Injection Time:**	07:54
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.89

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19817-8	BK23715.D	04/19/13	08:18	4.45	4.88
MC19817-10	BK23716.D	04/19/13	08:42	4.45	4.89
GBK833-ECC833	BK23717.D	04/19/13	09:07	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC19830

Sampling Date: 04/12/13



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 127

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 1, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19830

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY. NN

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Sample Summary

Shell Oil

Job No: MC19830

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC19830-1	04/12/13	09:20	LRMM	04/13/13	AQ	Ground Water	MW13-ROX-041213
MC19830-2	04/12/13	09:40	LRMM	04/13/13	AQ	Equipment Blank	MW13-ROX-041213-EB
MC19830-3	04/12/13	12:50	LRMM	04/13/13	AQ	Ground Water	P56-ROX-041213
MC19830-4	04/12/13	14:25	LRMM	04/13/13	AQ	Ground Water	P59-ROX-041213
MC19830-5	04/12/13	14:25	LRMM	04/13/13	AQ	Ground Water	P59-ROX-041213-DUP
MC19830-6	04/12/13	00:00	LRMM	04/13/13	AQ	Trip Blank Water	TB-ROX-041213-HCL
MC19830-7	04/12/13	00:00	LRMM	04/13/13	AQ	Trip Blank Water	TB-ROX-041213-ST
MC19830-8	04/12/13	10:55	LRMM	04/13/13	AQ	Ground Water	P93C-ROX-041213

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 9830

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** / /20 6 2:09:45 P

6 Samp e(s), 2 Tr p B ank(s) were co ected on 04/ 2/20 3 and were rece ved at SGS Accutest New Eng and on 04/ 3/20 3 proper y preserved, at 3 Deg C and ntact These Samp es rece ved a job number of MC 9830 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the bra y search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSV705

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9842- MS, MC 9842- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Dup c ate Recovery(s) for Acetone, Acro e n are outs de contro m ts
- B ank Sp ke Recovery(s) for Acetone are outs de contro m ts
- MC 9842- MS/MSD Recovery(s) for 2-Ch oroethy v ny ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for ,2,3-Tr ch orobenzene, 2-Ch oroethy v ny ether, Naphtha ene are outs de contro m ts for samp e MC 9842- MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- Acetone: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh or non-detect for th s compound

Matrix: AQ **Batch ID:** MSV709

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9877-3MS, MC 9877-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Dup c ate Recovery(s) for 2-Butanone (MEK), Acetone, Naphtha ene are outs de contro m ts
- B ank Sp ke Recovery(s) for 2-Butanone (MEK), Acetone are outs de contro m ts
- MC 9877-3MS/MSD Recovery(s) for 2-Ch oroethy v ny ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC 9877-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MSV709-BS/BSD for 2-Hexanone: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3268

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9800-2MS, MC 9800-2MSD were used as the QC samp es nd cated
- BS/MS/MSD Recovery(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2,4,5-Tr ch oropheno , 2,4,6-Tr ch oropheno , 4,6-D n tro-o-creso , Pentach oropheno are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recove y(s) for 2,4,5-Tr ch oropheno , 2-N tropheno , 4,6-D n tro-o-creso , Pentach oropheno are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke

Matrix: AQ **Batch ID:** OP32692

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9686-6MS, MC 9686-6MSD were used as the QC samp es nd cated
- B ank Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, An ne, D methy phtha ate, Hexach orocyc opentad ene, Hexach oroethane, n-N trosod methy am ne, N-N trosod pheny am ne, Pentach oropheno , Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, An ne, Hexach orocyc opentad ene, N-N trosod pheny am ne, Pentach oropheno , Pyr d ne are outs de contro m ts Outs de contro m ts
- Matr x Sp ke Dup cate Recove y(s) for 3,3'-D ch orobenz d ne, An ne, Hexach orocyc opentad ene, N-N trosod pheny am ne, Pyr d ne are outs de contro m ts Outs de contro m ts
- RPD(s) for MSD for 2,4-D methy pheno , Benzo c Ac d, Buty benzy phtha ate, D methy phtha ate, Pentach oropheno are outs de contro m ts for samp e OP32692-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32682

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC 9800-3MS, MC 9800-3MSD were used as the QC samp es nd cated

Matrix: AQ **Batch ID:** OP32693

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800-9MS, MC 9800-9MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32697

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800- MS, MC 9800- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC 9830)

Summary of Hits

Job Number: MC19830
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19830-1	MW13-ROX-041213					
Acetone [a]		31.9	10	3.0	ug/l	SW846 8260B
Benzene		10.2	0.50	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		9.3	1.0	0.41	ug/l	SW846 8260B
2-Methylnaphthalene		0.11 J	0.20	0.052	ug/l	SW846 8270C BY SIM
MC19830-2	MW13-ROX-041213-EB					
Benzene		2.6	0.50	0.24	ug/l	SW846 8260B
MC19830-3	P56-ROX-041213					
Benzene		131	1.0	0.48	ug/l	SW846 8260B
sec-Butylbenzene		14.2	10	1.1	ug/l	SW846 8260B
Ethylbenzene		691	2.0	1.0	ug/l	SW846 8260B
Isopropylbenzene		58.1	10	1.0	ug/l	SW846 8260B
Naphthalene		96.4	10	1.0	ug/l	SW846 8260B
n-Propylbenzene		80.5	10	1.2	ug/l	SW846 8260B
Toluene		79.9	2.0	1.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		270	10	0.69	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		48.6	10	0.93	ug/l	SW846 8260B
m,p-Xylene		1000	2.0	1.5	ug/l	SW846 8260B
o-Xylene		24.3	2.0	1.2	ug/l	SW846 8260B
Xylene (total)		1030	2.0	1.2	ug/l	SW846 8260B
Acenaphthene		0.53	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.088 J	0.11	0.015	ug/l	SW846 8270C BY SIM
Anthracene		0.10 J	0.11	0.019	ug/l	SW846 8270C BY SIM
Fluorene		0.32	0.11	0.051	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		20.8	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		23.9	0.22	0.057	ug/l	SW846 8270C BY SIM
Phenanthrene		1.2	0.055	0.014	ug/l	SW846 8270C BY SIM
MC19830-4	P59-ROX-041213					
Benzene		15000	25	12	ug/l	SW846 8260B
sec-Butylbenzene		289	250	28	ug/l	SW846 8260B
Ethylbenzene		2850	50	25	ug/l	SW846 8260B
Isopropylbenzene		62.0 J	250	25	ug/l	SW846 8260B
Naphthalene		664	250	25	ug/l	SW846 8260B
n-Propylbenzene		136 J	250	29	ug/l	SW846 8260B
Toluene		523	50	25	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		946	250	17	ug/l	SW846 8260B
m,p-Xylene		6520	50	37	ug/l	SW846 8260B
o-Xylene		646	50	29	ug/l	SW846 8260B

Summary of Hits

Job Number: MC19830
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		7160	50	29	ug/l	SW846 8260B
Benzoic Acid		83.1	11	1.3	ug/l	SW846 8270C
2,4-Dimethylphenol		91.9	11	1.2	ug/l	SW846 8270C
2-Methylphenol		174	110	14	ug/l	SW846 8270C
3&4-Methylphenol		84.2	11	2.2	ug/l	SW846 8270C
Phenol		119	54	5.5	ug/l	SW846 8270C
Acenaphthene		0.57	0.11	0.015	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.13	0.11	0.014	ug/l	SW846 8270C BY SIM
Fluoranthene		0.077 J	0.11	0.035	ug/l	SW846 8270C BY SIM
Fluorene		0.64	0.11	0.050	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		24.7	0.22	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		36.9	0.22	0.056	ug/l	SW846 8270C BY SIM
Phenanthrene		1.2	0.054	0.014	ug/l	SW846 8270C BY SIM
Pyrene		0.098 J	0.11	0.038	ug/l	SW846 8270C BY SIM
MC19830-5	**P59-ROX-041213-DUP**					
Benzene		13400	25	12	ug/l	SW846 8260B
sec-Butylbenzene		288	250	28	ug/l	SW846 8260B
Ethylbenzene		2570	50	25	ug/l	SW846 8260B
Isopropylbenzene		54.3 J	250	25	ug/l	SW846 8260B
Naphthalene		547	250	25	ug/l	SW846 8260B
n-Propylbenzene		117 J	250	29	ug/l	SW846 8260B
Toluene		463	50	25	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		843	250	17	ug/l	SW846 8260B
m,p-Xylene		5890	50	37	ug/l	SW846 8260B
o-Xylene		591	50	29	ug/l	SW846 8260B
Xylene (total)		6480	50	29	ug/l	SW846 8260B
Benzoic Acid		51.8	11	1.3	ug/l	SW846 8270C
2,4-Dimethylphenol		91.4	11	1.2	ug/l	SW846 8270C
2-Methylphenol		154	110	14	ug/l	SW846 8270C
3&4-Methylphenol		79.4	11	2.1	ug/l	SW846 8270C
Phenol		101	53	5.4	ug/l	SW846 8270C
Acenaphthene		0.58	0.11	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.12	0.11	0.014	ug/l	SW846 8270C BY SIM
Fluoranthene		0.078 J	0.11	0.034	ug/l	SW846 8270C BY SIM
Fluorene		0.65	0.11	0.049	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		26.5	0.21	0.15	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		38.3	0.21	0.055	ug/l	SW846 8270C BY SIM
Phenanthrene		1.2	0.053	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.10 J	0.11	0.037	ug/l	SW846 8270C BY SIM
MC19830-6	**TB-ROX-041213-HCL**					

No hits reported in this sample.

Summary of Hits

Job Number: MC19830
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19830-7	**TB-ROX-041213-ST**					
No hits reported in this sample.						
MC19830-8	**P93C-ROX-041213**					
Acetone [a]		5.6 J	10	3.0	ug/l	SW846 8260B
Methyl Tert Butyl Ether		4.5	1.0	0.41	ug/l	SW846 8260B

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17864.D	1	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	31.9	10	3.0	ug/l	
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	10.2	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.3	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63196.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.58	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		15-110%
4165-62-2	Phenol-d5	43%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	50%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82746.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	0.11	0.20	0.052	ug/l	J
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	51%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213		
Lab Sample ID:	MC19830-1	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23679.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	103%		36-173%
460-00-4	Bromofluorobenzene (S)	102%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17862.D	1	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	2.6	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63197.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.55	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.64	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.5	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.63	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.94	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.63	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.74	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.55	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	0.48	ug/l	

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Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.55	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.48	ug/l	
78-59-1	Isophorone	ND	5.5	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.55	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	0.55	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.89	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	96%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82747.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.015	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.055	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.046	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.036	ug/l	
86-73-7	Fluorene	ND	0.11	0.051	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.051	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.057	ug/l	
85-01-8	Phenanthrene	ND	0.055	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-041213-EB		
Lab Sample ID:	MC19830-2	**Date Sampled:**	04/12/13
Matrix:	AQ - Equipment Blank	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23680.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	33.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		36-173%
460-00-4	Bromofluorobenzene (S)	101%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17978.D	2	04/24/13	AMY	n/a	n/a	MSV709
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	6.0	ug/l	
107-02-8	Acrolein [a]	ND	50	20	ug/l	
107-13-1	Acrylonitrile	ND	10	6.5	ug/l	
71-43-2	Benzene	131	1.0	0.48	ug/l	
108-86-1	Bromobenzene	ND	10	1.2	ug/l	
74-97-5	Bromochloromethane	ND	10	2.4	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	1.2	ug/l	
75-25-2	Bromoform	ND	2.0	1.6	ug/l	
74-83-9	Bromomethane	ND	4.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
104-51-8	n-Butylbenzene	ND	10	1.2	ug/l	
135-98-8	sec-Butylbenzene	14.2	10	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.3	ug/l	
75-15-0	Carbon disulfide	ND	10	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.7	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.94	ug/l	
75-00-3	Chloroethane	ND	4.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	2.5	ug/l	
67-66-3	Chloroform	ND	2.0	0.99	ug/l	
74-87-3	Chloromethane	ND	4.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	10	1.3	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.97	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.9	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.90	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	3.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	0.82	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.3	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.9	ug/l	

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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.0	1.4	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	3.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.8	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.39	ug/l	
123-91-1	1,4-Dioxane	ND	50	30	ug/l	
97-63-2	Ethyl methacrylate	ND	10	1.6	ug/l	
100-41-4	Ethylbenzene	691	2.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.1	ug/l	
591-78-6	2-Hexanone	ND	10	3.9	ug/l	
98-82-8	Isopropylbenzene	58.1	10	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.82	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	5.8	ug/l	
74-95-3	Methylene bromide	ND	10	2.2	ug/l	
75-09-2	Methylene chloride	ND	4.0	1.7	ug/l	
91-20-3	Naphthalene	96.4	10	1.0	ug/l	
103-65-1	n-Propylbenzene	80.5	10	1.2	ug/l	
100-42-5	Styrene	ND	10	0.91	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	0.84	ug/l	
108-88-3	Toluene	79.9	2.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	2.6	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.57	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.7	ug/l	
95-63-6	1,2,4-Trimethylbenzene	270	10	0.69	ug/l	
108-67-8	1,3,5-Trimethylbenzene	48.6	10	0.93	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.3	ug/l	
	m,p-Xylene	1000	2.0	1.5	ug/l	
95-47-6	o-Xylene	24.3	2.0	1.2	ug/l	
1330-20-7	Xylene (total)	1030	2.0	1.2	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63201.D	1	04/20/13	KR	04/16/13	OP32681	MSF2953
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.54	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.55	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.64	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.5	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.63	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.94	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.63	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.74	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.55	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	0.48	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.55	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.48	ug/l	
78-59-1	Isophorone	ND	5.5	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.55	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	0.55	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.89	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.59	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	100%		15-110%
4165-60-0	Nitrobenzene-d5	93%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82748.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.53	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	0.088	0.11	0.015	ug/l	J
120-12-7	Anthracene	0.10	0.11	0.019	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.055	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.064	ug/l	
218-01-9	Chrysene	ND	0.11	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.046	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.036	ug/l	
86-73-7	Fluorene	0.32	0.11	0.051	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.051	ug/l	
90-12-0	1-Methylnaphthalene	20.8	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	23.9	0.22	0.057	ug/l	
85-01-8	Phenanthrene	1.2	0.055	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-041213		
Lab Sample ID:	MC19830-3	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23681.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	119%		36-173%
460-00-4	Bromofluorobenzene (S)	115%		36-173%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17873.D	50	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	150	ug/l	
107-02-8	Acrolein [a]	ND	1300	510	ug/l	
107-13-1	Acrylonitrile	ND	250	160	ug/l	
71-43-2	Benzene	15000	25	12	ug/l	
108-86-1	Bromobenzene	ND	250	31	ug/l	
74-97-5	Bromochloromethane	ND	250	63	ug/l	
75-27-4	Bromodichloromethane	ND	50	29	ug/l	
75-25-2	Bromoform	ND	50	39	ug/l	
74-83-9	Bromomethane	ND	100	51	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	120	ug/l	
104-51-8	n-Butylbenzene	ND	250	30	ug/l	
135-98-8	sec-Butylbenzene	289	250	28	ug/l	
98-06-6	tert-Butylbenzene	ND	250	32	ug/l	
75-15-0	Carbon disulfide	ND	250	31	ug/l	
56-23-5	Carbon tetrachloride	ND	50	43	ug/l	
108-90-7	Chlorobenzene	ND	50	23	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	100	37	ug/l	
95-49-8	o-Chlorotoluene	ND	250	32	ug/l	
106-43-4	p-Chlorotoluene	ND	250	24	ug/l	
124-48-1	Dibromochloromethane	ND	50	26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	46	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	32	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	86	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	31	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	32	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	21	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	32	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	47	ug/l	

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Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	100	36	ug/l	
142-28-9	1,3-Dichloropropane	ND	250	32	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	79	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	46	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	9.8	ug/l	
123-91-1	1,4-Dioxane	ND	1300	740	ug/l	
97-63-2	Ethyl methacrylate	ND	250	41	ug/l	
100-41-4	Ethylbenzene	2850	50	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	250	100	ug/l	
591-78-6	2-Hexanone	ND	250	98	ug/l	
98-82-8	Isopropylbenzene	62.0	250	25	ug/l	J
99-87-6	p-Isopropyltoluene	ND	250	29	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	21	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	150	ug/l	
74-95-3	Methylene bromide	ND	250	55	ug/l	
75-09-2	Methylene chloride	ND	100	42	ug/l	
91-20-3	Naphthalene	664	250	25	ug/l	
103-65-1	n-Propylbenzene	136	250	29	ug/l	J
100-42-5	Styrene	ND	250	23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	30	ug/l	
127-18-4	Tetrachloroethene	ND	50	21	ug/l	
108-88-3	Toluene	523	50	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	63	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	64	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	ND	50	39	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	14	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	250	42	ug/l	
95-63-6	1,2,4-Trimethylbenzene	946	250	17	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	250	23	ug/l	
108-05-4	Vinyl Acetate	ND	250	63	ug/l	
75-01-4	Vinyl chloride	ND	50	31	ug/l	
	m,p-Xylene	6520	50	37	ug/l	
95-47-6	o-Xylene	646	50	29	ug/l	
1330-20-7	Xylene (total)	7160	50	29	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63202.D	1	04/20/13	KR	04/16/13	OP32681	MSF2953
Run #2	U13795.D	10	04/25/13	NS	04/16/13	OP32681	MSU699

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2	930 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	83.1	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	91.9	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	174 [a]	110	14	ug/l	
	3&4-Methylphenol	84.2	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	119 [a]	54	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.92	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.62	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.70	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.47	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	0.54	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.87	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.58	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%	47%	15-110%
4165-62-2	Phenol-d5	45%	37%	15-110%
118-79-6	2,4,6-Tribromophenol	105%	85%	15-110%
4165-60-0	Nitrobenzene-d5	94%	73%	30-130%
321-60-8	2-Fluorobiphenyl	85%	72%	30-130%
1718-51-0	Terphenyl-d14	72%	65%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82831.D	1	04/25/13	NS	04/16/13	OP32682	MSI3078
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.57	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	0.13	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.041	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.063	ug/l	
218-01-9	Chrysene	ND	0.11	0.078	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.045	ug/l	
206-44-0	Fluoranthene	0.077	0.11	0.035	ug/l	J
86-73-7	Fluorene	0.64	0.11	0.050	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.049	ug/l	
90-12-0	1-Methylnaphthalene	24.7	0.22	0.15	ug/l	
91-57-6	2-Methylnaphthalene	36.9	0.22	0.056	ug/l	
85-01-8	Phenanthrene	1.2	0.054	0.014	ug/l	
129-00-0	Pyrene	0.098	0.11	0.038	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213		
Lab Sample ID:	MC19830-4	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23682.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	129%		36-173%
460-00-4	Bromofluorobenzene (S)	113%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17874.D	50	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	150	ug/l	
107-02-8	Acrolein [a]	ND	1300	510	ug/l	
107-13-1	Acrylonitrile	ND	250	160	ug/l	
71-43-2	Benzene	13400	25	12	ug/l	
108-86-1	Bromobenzene	ND	250	31	ug/l	
74-97-5	Bromochloromethane	ND	250	63	ug/l	
75-27-4	Bromodichloromethane	ND	50	29	ug/l	
75-25-2	Bromoform	ND	50	39	ug/l	
74-83-9	Bromomethane	ND	100	51	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	120	ug/l	
104-51-8	n-Butylbenzene	ND	250	30	ug/l	
135-98-8	sec-Butylbenzene	288	250	28	ug/l	
98-06-6	tert-Butylbenzene	ND	250	32	ug/l	
75-15-0	Carbon disulfide	ND	250	31	ug/l	
56-23-5	Carbon tetrachloride	ND	50	43	ug/l	
108-90-7	Chlorobenzene	ND	50	23	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	100	37	ug/l	
95-49-8	o-Chlorotoluene	ND	250	32	ug/l	
106-43-4	p-Chlorotoluene	ND	250	24	ug/l	
124-48-1	Dibromochloromethane	ND	50	26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	46	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	32	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	86	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	31	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	32	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	21	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	32	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	47	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	100	36	ug/l	
142-28-9	1,3-Dichloropropane	ND	250	32	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	79	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	46	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	9.8	ug/l	
123-91-1	1,4-Dioxane	ND	1300	740	ug/l	
97-63-2	Ethyl methacrylate	ND	250	41	ug/l	
100-41-4	Ethylbenzene	2570	50	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	250	100	ug/l	
591-78-6	2-Hexanone	ND	250	98	ug/l	
98-82-8	Isopropylbenzene	54.3	250	25	ug/l	J
99-87-6	p-Isopropyltoluene	ND	250	29	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	21	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	150	ug/l	
74-95-3	Methylene bromide	ND	250	55	ug/l	
75-09-2	Methylene chloride	ND	100	42	ug/l	
91-20-3	Naphthalene	547	250	25	ug/l	
103-65-1	n-Propylbenzene	117	250	29	ug/l	J
100-42-5	Styrene	ND	250	23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	30	ug/l	
127-18-4	Tetrachloroethene	ND	50	21	ug/l	
108-88-3	Toluene	463	50	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	63	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	64	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	ND	50	39	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	14	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	250	42	ug/l	
95-63-6	1,2,4-Trimethylbenzene	843	250	17	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	250	23	ug/l	
108-05-4	Vinyl Acetate	ND	250	63	ug/l	
75-01-4	Vinyl chloride	ND	50	31	ug/l	
	m,p-Xylene	5890	50	37	ug/l	
95-47-6	o-Xylene	591	50	29	ug/l	
1330-20-7	Xylene (total)	6480	50	29	ug/l	

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63203.D	1	04/20/13	KR	04/16/13	OP32681	MSF2953
Run #2	U13796.D	10	04/25/13	NS	04/16/13	OP32681	MSU699

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	51.8	11	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.35	ug/l	
105-67-9	2,4-Dimethylphenol	91.4	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	154 [a]	110	14	ug/l	
	3&4-Methylphenol	79.4	11	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	101 [a]	53	5.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.60	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.33	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.90	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.61	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.21	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.71	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.68	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.53	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.41	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.46	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.53	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.53	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.46	ug/l	
78-59-1	Isophorone	ND	5.3	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.6	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.53	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.57	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%	42%	15-110%
4165-62-2	Phenol-d5	42%	31%	15-110%
118-79-6	2,4,6-Tribromophenol	102%	74%	15-110%
4165-60-0	Nitrobenzene-d5	96%	69%	30-130%
321-60-8	2-Fluorobiphenyl	89%	71%	30-130%
1718-51-0	Terphenyl-d14	69%	53%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82832.D	1	04/25/13	NS	04/16/13	OP32682	MSI3078
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.58	0.11	0.014	ug/l	
208-96-8	Acenaphthylene	0.12	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	0.078	0.11	0.034	ug/l	J
86-73-7	Fluorene	0.65	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	26.5	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	38.3	0.21	0.055	ug/l	
85-01-8	Phenanthrene	1.2	0.053	0.013	ug/l	
129-00-0	Pyrene	0.10	0.11	0.037	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	66%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-041213-DUP		
Lab Sample ID:	MC19830-5	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23683.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	146%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041213-HCL		
Lab Sample ID:	MC19830-6	**Date Sampled:**	04/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17861.D	1	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041213-HCL		
Lab Sample ID:	MC19830-6	**Date Sampled:**	04/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041213-HCL		
Lab Sample ID:	MC19830-6	**Date Sampled:**	04/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041213-ST		
Lab Sample ID:	MC19830-7	**Date Sampled:**	04/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23685.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	92%		36-173%
460-00-4	Bromofluorobenzene (S)	98%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17863.D	1	04/22/13	AMY	n/a	n/a	MSV705
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	5.6	10	3.0	ug/l	J
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.5	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W11318.D	1	04/19/13	KR	04/17/13	OP32692	MSW528
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82725.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-041213		
Lab Sample ID:	MC19830-8	**Date Sampled:**	04/12/13
Matrix:	AQ - Ground Water	**Date Received:**	04/13/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23686.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	114%		36-173%
460-00-4	Bromofluorobenzene (S)	113%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

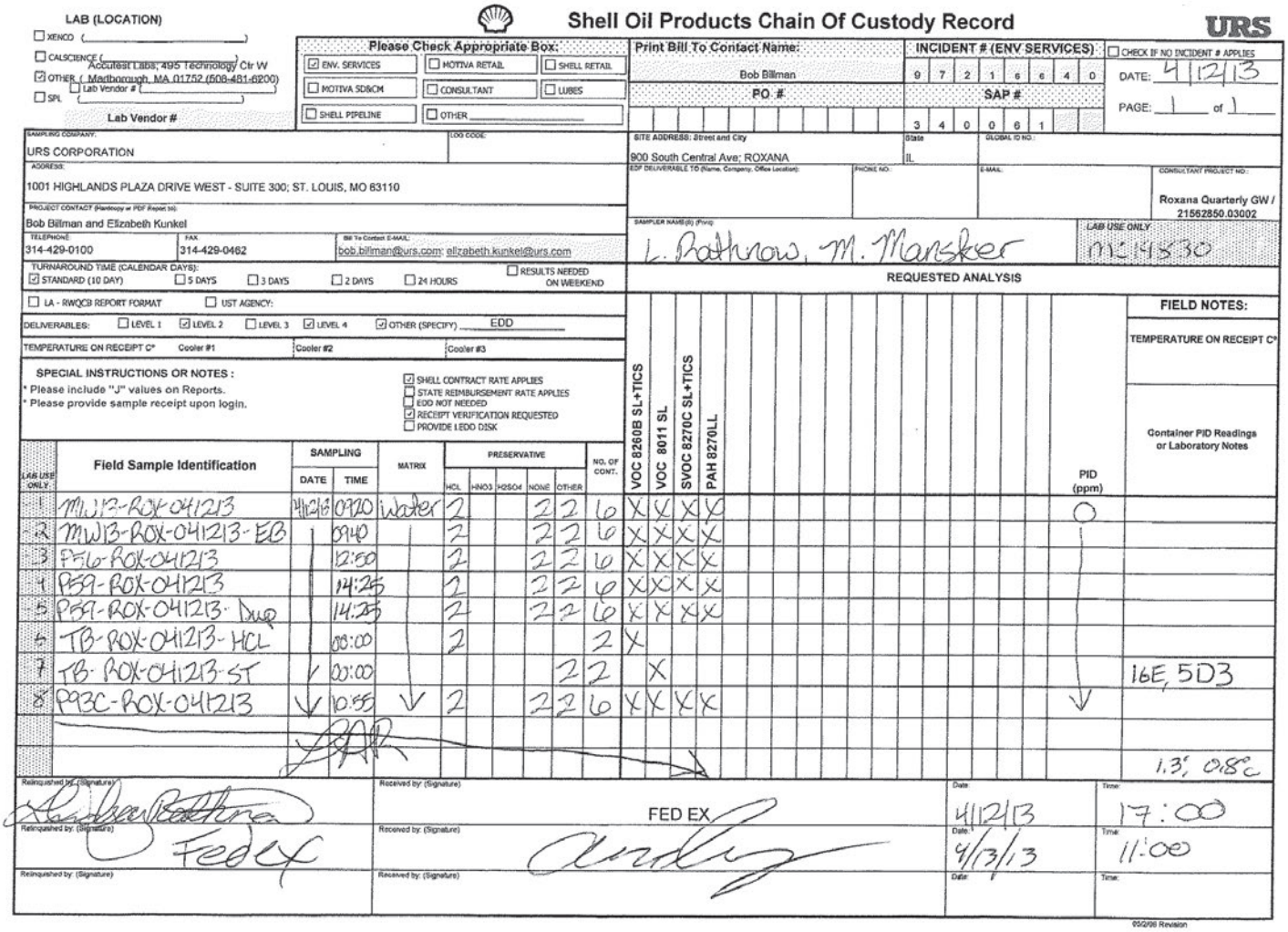
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #: ☐ Lab Vendor # (_____)

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4/12/13
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Bob Billman and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002
SAMPLER NAME(S) (Print): L. Rathnow, M. Manskker
LAB USE ONLY: MC 19830

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW13-ROX-041213	4/12/13	09:20	Water	2			2	2	6	X	X	X	X		
2	MW13-ROX-041213-EB		09:40		2			2	2	6	X	X	X	X		
3	PZ16-ROX-041213		12:50		2			2	2	6	X	X	X	X		
4	PZ9-ROX-041213		14:25		2			2	2	6	X	X	X	X		
5	PZ9-ROX-041213-Dup		14:25		2			2	2	6	X	X	X	X		
6	TB-ROX-041213-HCL		00:00		2					2	X					
7	TB-ROX-041213-ST		00:00						2 2			X				16E, 5D3
8	PZ3C-ROX-041213		10:55		2			2	2	6	X	X	X	X		
																1.3', 0.8°C

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
L. Rathnow	FED EX	4/12/13	17:00
Fed Ex		4/13/13	11:00

9/2/08 Revision

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MC19830: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19830 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/13/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

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MC19830: Chain of Custody
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Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19830

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19830-1 Collected: 12-APR-13 09:20 By: LRMM Received: 13-APR-13 By: MW13-ROX-041213						
MC19830-1	SW846 8011	18-APR-13 17:40	NK	17-APR-13	BJ	V8011SL
MC19830-1	SW846 8270C	19-APR-13 18:53	KR	16-APR-13	PA	AB8270SL+
MC19830-1	SW846 8270C BY SIM	19-APR-13 19:35	NS	16-APR-13	PA	B8270SIMSL
MC19830-1	SW846 8260B	22-APR-13 14:48	AMY			V8260SL+
MC19830-2 Collected: 12-APR-13 09:40 By: LRMM Received: 13-APR-13 By: MW13-ROX-041213-EB						
MC19830-2	SW846 8011	18-APR-13 18:04	NK	17-APR-13	BJ	V8011SL
MC19830-2	SW846 8270C	19-APR-13 19:17	KR	16-APR-13	PA	AB8270SL+
MC19830-2	SW846 8270C BY SIM	19-APR-13 19:58	NS	16-APR-13	PA	B8270SIMSL
MC19830-2	SW846 8260B	22-APR-13 13:54	AMY			V8260SL+
MC19830-3 Collected: 12-APR-13 12:50 By: LRMM Received: 13-APR-13 By: P56-ROX-041213						
MC19830-3	SW846 8011	18-APR-13 18:28	NK	17-APR-13	BJ	V8011SL
MC19830-3	SW846 8270C BY SIM	19-APR-13 20:22	NS	16-APR-13	PA	B8270SIMSL
MC19830-3	SW846 8270C	20-APR-13 11:52	KR	16-APR-13	PA	AB8270SL+
MC19830-3	SW846 8260B	24-APR-13 17:35	AMY			V8260SL+
MC19830-4 Collected: 12-APR-13 14:25 By: LRMM Received: 13-APR-13 By: P59-ROX-041213						
MC19830-4	SW846 8011	18-APR-13 18:51	NK	17-APR-13	BJ	V8011SL
MC19830-4	SW846 8270C	20-APR-13 12:16	KR	16-APR-13	PA	AB8270SL+
MC19830-4	SW846 8260B	22-APR-13 18:50	AMY			V8260SL+
MC19830-4	SW846 8270C BY SIM	25-APR-13 10:03	NS	16-APR-13	PA	B8270SIMSL
MC19830-4	SW846 8270C	25-APR-13 15:37	NS	16-APR-13	PA	AB8270SL+
MC19830-5 Collected: 12-APR-13 14:25 By: LRMM Received: 13-APR-13 By: P59-ROX-041213-DUP						
MC19830-5	SW846 8011	18-APR-13 19:15	NK	17-APR-13	BJ	V8011SL
MC19830-5	SW846 8270C	20-APR-13 12:40	KR	16-APR-13	PA	AB8270SL+
MC19830-5	SW846 8260B	22-APR-13 19:16	AMY			V8260SL+
MC19830-5	SW846 8270C BY SIM	25-APR-13 10:26	NS	16-APR-13	PA	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19830

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19830-5	SW846 8270C	25-APR-13 15:58	NS	16-APR-13	PA	AB8270SL+
MC19830-6 Collected: 12-APR-13 00:00 By: LRMM Received: 13-APR-13 By: TB-ROX-041213-HCL						
MC19830-6	SW846 8260B	22-APR-13 13:28	AMY			V8260SL+
MC19830-7 Collected: 12-APR-13 00:00 By: LRMM Received: 13-APR-13 By: TB-ROX-041213-ST						
MC19830-7	SW846 8011	18-APR-13 20:02	NK	17-APR-13	BJ	V8011SL
MC19830-8 Collected: 12-APR-13 10:55 By: LRMM Received: 13-APR-13 By: P93C-ROX-041213						
MC19830-8	SW846 8011	18-APR-13 20:25	NK	17-APR-13	BJ	V8011SL
MC19830-8	SW846 8270C BY SIM	19-APR-13 11:24	NS	17-APR-13	PA	B8270SIMSL
MC19830-8	SW846 8270C	19-APR-13 13:13	KR	17-APR-13	PA	AB8270SL+
MC19830-8	SW846 8260B	22-APR-13 14:21	AMY			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/13/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19830-1.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19830-1.1	Michael Rolo		04/17/13 07:24	Depleted
MC19830-1.3	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-1.3	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-1.3	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-1.3	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC19830-1.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-1.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-2.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19830-2.2	Michael Rolo		04/17/13 07:24	Depleted
MC19830-2.3	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-2.3	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-2.3	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-2.3	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-2.3	Scott Parsick		07/24/13 13:54	Disposed
MC19830-2.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-2.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-3.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19830-3.2	Michael Rolo		04/17/13 07:24	Depleted
MC19830-3.3	VOC Ref #5	Amy Min Yang	04/24/13 16:19	Retrieve from Storage
MC19830-3.3	Amy Min Yang	GCMSV	04/24/13 16:19	Load on Instrument
MC19830-3.3	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19830-3.3	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19830-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19830-3.4	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-3.4	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-3.4	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-3.4	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19830-3.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-3.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-4.1	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19830-4.1	Michael Rolo		04/17/13 07:24	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/13/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19830-4.4	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-4.4	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-4.4	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-4.4	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-4.4	Scott Parsick		07/24/13 13:54	Disposed
MC19830-4.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-4.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-5.2	Walk In Ref #22	Michael Rolo	04/16/13 07:10	Retrieve from Storage
MC19830-5.2	Michael Rolo		04/17/13 07:24	Depleted
MC19830-5.4	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-5.4	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-5.4	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-5.4	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-5.4	Scott Parsick		07/24/13 13:54	Disposed
MC19830-5.5	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-5.5	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-6.1	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-6.1	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-6.1	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-6.1	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-6.1	Scott Parsick		07/24/13 13:54	Disposed
MC19830-7.2	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-7.2	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-8.2	Walk In Ref #22	Michael Rolo	04/17/13 08:52	Retrieve from Storage
MC19830-8.2	Michael Rolo		04/18/13 07:20	Depleted
MC19830-8.3	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19830-8.3	Bijan Jafari		04/20/13 08:36	Depleted
MC19830-8.4	VOC Ref #5	Amy Min Yang	04/22/13 12:13	Retrieve from Storage
MC19830-8.4	Amy Min Yang	GCMSV	04/22/13 12:13	Load on Instrument
MC19830-8.4	GCMSV	Kerry Ryan	04/23/13 12:44	Unload from Instrument
MC19830-8.4	Kerry Ryan	VOC Ref #5	04/23/13 12:44	Return to Storage
MC19830-8.4	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-MB	V17854.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-MB	V17854.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-MB	V17854.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	84%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	84%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-BS	V17850.D	1	04/22/13	AMY	n/a	n/a	MSV705
MSV705-BSD	V17851.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	71.9	144* [a]	73.8	148* [a]	3	70-130/25
107-02-8	Acrolein	250	182	73	167	67* [a]	9	70-130/25
107-13-1	Acrylonitrile	50	49.9	100	48.6	97	3	70-130/25
71-43-2	Benzene	50	46.4	93	45.6	91	2	70-130/25
108-86-1	Bromobenzene	50	50.5	101	50.4	101	0	70-130/25
74-97-5	Bromochloromethane	50	46.9	94	46.6	93	1	70-130/25
75-27-4	Bromodichloromethane	50	45.5	91	45.0	90	1	70-130/25
75-25-2	Bromoform	50	41.0	82	42.0	84	2	70-130/25
74-83-9	Bromomethane	50	53.3	107	52.4	105	2	70-130/25
78-93-3	2-Butanone (MEK)	50	60.3	121	62.1	124	3	70-130/25
104-51-8	n-Butylbenzene	50	48.2	96	46.9	94	3	70-130/25
135-98-8	sec-Butylbenzene	50	45.0	90	44.2	88	2	70-130/25
98-06-6	tert-Butylbenzene	50	50.6	101	49.7	99	2	70-130/25
75-15-0	Carbon disulfide	50	37.4	75	36.5	73	2	70-130/25
56-23-5	Carbon tetrachloride	50	45.1	90	43.8	88	3	70-130/25
108-90-7	Chlorobenzene	50	47.4	95	46.3	93	2	70-130/25
75-00-3	Chloroethane	50	54.5	109	53.2	106	2	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	41.2	82	42.4	85	3	70-130/25
67-66-3	Chloroform	50	47.7	95	46.3	93	3	70-130/25
74-87-3	Chloromethane	50	59.0	118	56.8	114	4	70-130/25
95-49-8	o-Chlorotoluene	50	48.3	97	48.0	96	1	70-130/25
106-43-4	p-Chlorotoluene	50	50.4	101	49.5	99	2	70-130/25
124-48-1	Dibromochloromethane	50	43.6	87	43.9	88	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.4	97	48.4	97	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	48.5	97	48.0	96	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.4	99	49.2	98	0	70-130/25
75-71-8	Dichlorodifluoromethane	50	48.0	96	47.0	94	2	70-130/25
75-34-3	1,1-Dichloroethane	50	48.7	97	47.4	95	3	70-130/25
107-06-2	1,2-Dichloroethane	50	47.4	95	47.0	94	1	70-130/25
75-35-4	1,1-Dichloroethene	50	43.5	87	42.5	85	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	47.1	94	45.7	91	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	43.8	88	43.1	86	2	70-130/25
78-87-5	1,2-Dichloropropane	50	48.5	97	48.1	96	1	70-130/25
142-28-9	1,3-Dichloropropane	50	47.7	95	48.5	97	2	70-130/25
594-20-7	2,2-Dichloropropane	50	50.1	100	48.6	97	3	70-130/25
563-58-6	1,1-Dichloropropene	50	50.4	101	49.6	99	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-BS	V17850.D	1	04/22/13	AMY	n/a	n/a	MSV705
MSV705-BSD	V17851.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	44.1	88	43.9	88	0	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	46.1	92	46.6	93	1	70-130/25
123-91-1	1,4-Dioxane	250	215	86	233	93	8	70-130/25
97-63-2	Ethyl methacrylate	50	44.1	88	45.4	91	3	77-137/25
100-41-4	Ethylbenzene	50	52.9	106	51.9	104	2	70-130/25
87-68-3	Hexachlorobutadiene	50	49.2	98	48.7	97	1	70-130/25
591-78-6	2-Hexanone	50	62.1	124	63.5	127	2	70-130/25
98-82-8	Isopropylbenzene	50	53.0	106	52.0	104	2	70-130/25
99-87-6	p-Isopropyltoluene	50	49.5	99	48.8	98	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	40.1	80	41.3	83	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	45.8	92	48.0	96	5	70-130/25
74-95-3	Methylene bromide	50	48.0	96	48.1	96	0	70-130/25
75-09-2	Methylene chloride	50	43.2	86	42.5	85	2	70-130/25
91-20-3	Naphthalene	50	52.5	105	57.0	114	8	70-130/25
103-65-1	n-Propylbenzene	50	53.4	107	52.5	105	2	70-130/25
100-42-5	Styrene	50	51.8	104	51.3	103	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	47.5	95	47.0	94	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	53.3	107	54.9	110	3	70-130/25
127-18-4	Tetrachloroethene	50	47.5	95	46.3	93	3	70-130/25
108-88-3	Toluene	50	50.8	102	49.6	99	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	51.6	103	56.3	113	9	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	49.2	98	51.5	103	5	70-130/25
71-55-6	1,1,1-Trichloroethane	50	44.4	89	43.3	87	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	48.6	97	48.9	98	1	70-130/25
79-01-6	Trichloroethene	50	46.7	93	45.3	91	3	70-130/25
75-69-4	Trichlorofluoromethane	50	48.4	97	46.7	93	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	47.0	94	48.2	96	3	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.3	107	52.5	105	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	48.0	96	47.4	95	1	70-130/25
108-05-4	Vinyl Acetate	50	49.9	100	50.0	100	0	70-130/25
75-01-4	Vinyl chloride	50	48.6	97	46.6	93	4	70-130/25
	m,p-Xylene	100	104	104	103	103	1	70-130/25
95-47-6	o-Xylene	50	51.7	103	50.9	102	2	70-130/25
1330-20-7	Xylene (total)	150	156	104	154	103	1	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV705-BS	V17850.D	1	04/22/13	AMY	n/a	n/a	MSV705
MSV705-BSD	V17851.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	87%	86%	70-130%
2037-26-5	Toluene-D8	91%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	91%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	93.6	187* [a]	89.1	178* [a]	5	70-130/25
107-02-8	Acrolein	250	200	80	177	71	12	70-130/25
107-13-1	Acrylonitrile	50	54.5	109	52.5	105	4	70-130/25
71-43-2	Benzene	50	50.3	101	48.7	97	3	70-130/25
108-86-1	Bromobenzene	50	54.6	109	54.1	108	1	70-130/25
74-97-5	Bromochloromethane	50	52.3	105	51.4	103	2	70-130/25
75-27-4	Bromodichloromethane	50	50.0	100	48.7	97	3	70-130/25
75-25-2	Bromoform	50	49.5	99	48.8	98	1	70-130/25
74-83-9	Bromomethane	50	53.7	107	51.3	103	5	70-130/25
78-93-3	2-Butanone (MEK)	50	76.2	152* [a]	75.8	152* [a]	1	70-130/25
104-51-8	n-Butylbenzene	50	49.8	100	48.9	98	2	70-130/25
135-98-8	sec-Butylbenzene	50	46.8	94	46.2	92	1	70-130/25
98-06-6	tert-Butylbenzene	50	52.2	104	51.6	103	1	70-130/25
75-15-0	Carbon disulfide	50	44.4	89	42.8	86	4	70-130/25
56-23-5	Carbon tetrachloride	50	48.8	98	47.1	94	4	70-130/25
108-90-7	Chlorobenzene	50	50.7	101	49.6	99	2	70-130/25
75-00-3	Chloroethane	50	56.6	113	52.8	106	7	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	51.7	103	50.7	101	2	70-130/25
67-66-3	Chloroform	50	50.6	101	49.3	99	3	70-130/25
74-87-3	Chloromethane	50	53.8	108	52.5	105	2	70-130/25
95-49-8	o-Chlorotoluene	50	51.1	102	50.3	101	2	70-130/25
106-43-4	p-Chlorotoluene	50	52.9	106	52.3	105	1	70-130/25
124-48-1	Dibromochloromethane	50	50.1	100	49.4	99	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.5	105	51.8	104	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	51.5	103	51.1	102	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	52.9	106	51.9	104	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	46.6	93	45.3	91	3	70-130/25
75-34-3	1,1-Dichloroethane	50	50.2	100	44.5	89	12	70-130/25
107-06-2	1,2-Dichloroethane	50	53.9	108	52.5	105	3	70-130/25
75-35-4	1,1-Dichloroethene	50	49.7	99	47.7	95	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.4	101	49.3	99	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.1	100	48.5	97	3	70-130/25
78-87-5	1,2-Dichloropropane	50	52.7	105	51.7	103	2	70-130/25
142-28-9	1,3-Dichloropropane	50	55.5	111	54.5	109	2	70-130/25
594-20-7	2,2-Dichloropropane	50	54.4	109	52.5	105	4	70-130/25
563-58-6	1,1-Dichloropropene	50	56.1	112	53.8	108	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	49.7	99	48.9	98	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	52.5	105	2	70-130/25
123-91-1	1,4-Dioxane	250	306	122	300	120	2	70-130/25
97-63-2	Ethyl methacrylate	50	54.6	109	53.4	107	2	77-137/25
100-41-4	Ethylbenzene	50	56.0	112	54.8	110	2	70-130/25
87-68-3	Hexachlorobutadiene	50	51.2	102	50.9	102	1	70-130/25
591-78-6	2-Hexanone	50	83.0	166* [b]	78.2	156* [b]	6	70-130/25
98-82-8	Isopropylbenzene	50	55.8	112	55.0	110	1	70-130/25
99-87-6	p-Isopropyltoluene	50	51.9	104	51.2	102	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	49.3	99	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	59.7	119	57.8	116	3	70-130/25
74-95-3	Methylene bromide	50	55.3	111	54.4	109	2	70-130/25
75-09-2	Methylene chloride	50	49.1	98	47.7	95	3	70-130/25
91-20-3	Naphthalene	50	64.2	128	65.8	132* [a]	2	70-130/25
103-65-1	n-Propylbenzene	50	56.0	112	55.3	111	1	70-130/25
100-42-5	Styrene	50	55.7	111	54.6	109	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	51.3	103	50.4	101	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	63.4	127	63.4	127	0	70-130/25
127-18-4	Tetrachloroethene	50	51.2	102	49.6	99	3	70-130/25
108-88-3	Toluene	50	55.0	110	53.3	107	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	61.6	123	63.0	126	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	55.3	111	56.0	112	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	47.7	95	46.1	92	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	55.8	112	55.0	110	1	70-130/25
79-01-6	Trichloroethene	50	50.5	101	49.2	98	3	70-130/25
75-69-4	Trichlorofluoromethane	50	48.3	97	45.6	91	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	55.9	112	55.3	111	1	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	55.8	112	55.5	111	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	50.7	101	50.1	100	1	70-130/25
108-05-4	Vinyl Acetate	50	56.5	113	53.3	107	6	70-130/25
75-01-4	Vinyl chloride	50	47.3	95	45.0	90	5	70-130/25
	m,p-Xylene	100	111	111	108	108	3	70-130/25
95-47-6	o-Xylene	50	54.8	110	53.8	108	2	70-130/25
1330-20-7	Xylene (total)	150	166	111	162	108	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	86%	86%	70-130%
2037-26-5	Toluene-D8	92%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19842-1MS	V17856.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1MSD	V17857.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1	V17855.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	MC19842-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10 U		250	196	78	250	198	79	1	70-130/30
107-02-8	Acrolein	25 U		1250	1360	109	1250	1410	113	4	70-130/30
107-13-1	Acrylonitrile	5.0 U		250	258	103	250	253	101	2	70-130/30
71-43-2	Benzene	0.50 U		250	234	94	250	234	94	0	70-130/30
108-86-1	Bromobenzene	5.0 U		250	253	101	250	256	102	1	70-130/30
74-97-5	Bromochloromethane	5.0 U		250	237	95	250	239	96	1	70-130/30
75-27-4	Bromodichloromethane	1.0 U		250	230	92	250	231	92	0	70-130/30
75-25-2	Bromoform	1.0 U		250	209	84	250	212	85	1	70-130/30
74-83-9	Bromomethane	2.0 U		250	266	106	250	262	105	2	70-130/30
78-93-3	2-Butanone (MEK)	5.0 U		250	232	93	250	239	96	3	70-130/30
104-51-8	n-Butylbenzene	5.0 U		250	238	95	250	241	96	1	70-130/30
135-98-8	sec-Butylbenzene	5.0 U		250	226	90	250	229	92	1	70-130/30
98-06-6	tert-Butylbenzene	5.0 U		250	254	102	250	253	101	0	70-130/30
75-15-0	Carbon disulfide	5.0 U		250	188	75	250	189	76	1	70-130/30
56-23-5	Carbon tetrachloride	1.0 U		250	234	94	250	229	92	2	70-130/30
108-90-7	Chlorobenzene	1.0 U		250	238	95	250	235	94	1	70-130/30
75-00-3	Chloroethane	2.0 U		250	267	107	250	267	107	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	5.0 U		250	58.8	24* [a]	250	27.2	11* [a]	73* [b]	70-130/30
67-66-3	Chloroform	1.0 U		250	241	96	250	239	96	1	70-130/30
74-87-3	Chloromethane	2.0 U		250	300	120	250	287	115	4	70-130/30
95-49-8	o-Chlorotoluene	5.0 U		250	244	98	250	244	98	0	70-130/30
106-43-4	p-Chlorotoluene	5.0 U		250	253	101	250	253	101	0	70-130/30
124-48-1	Dibromochloromethane	1.0 U		250	220	88	250	221	88	0	70-130/30
95-50-1	1,2-Dichlorobenzene	1.0 U		250	236	94	250	246	98	4	70-130/30
541-73-1	1,3-Dichlorobenzene	1.0 U		250	241	96	250	244	98	1	70-130/30
106-46-7	1,4-Dichlorobenzene	1.0 U		250	247	99	250	250	100	1	70-130/30
75-71-8	Dichlorodifluoromethane	2.0 U		250	244	98	250	245	98	0	70-130/30
75-34-3	1,1-Dichloroethane	3.3		250	249	98	250	247	97	1	70-130/30
107-06-2	1,2-Dichloroethane	1.0 U		250	243	97	250	243	97	0	70-130/30
75-35-4	1,1-Dichloroethene	3.0		250	221	87	250	219	86	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	26.9		250	259	93	250	258	92	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	1.0 U		250	221	88	250	220	88	0	70-130/30
78-87-5	1,2-Dichloropropane	2.0 U		250	247	99	250	246	98	0	70-130/30
142-28-9	1,3-Dichloropropane	5.0 U		250	244	98	250	246	98	1	70-130/30
594-20-7	2,2-Dichloropropane	5.0 U		250	253	101	250	250	100	1	70-130/30
563-58-6	1,1-Dichloropropene	5.0 U		250	260	104	250	258	103	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19842-1MS	V17856.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1MSD	V17857.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1	V17855.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Compound	MC19842-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	0.50 U		250	218	87	250	221	88	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	0.50 U		250	234	94	250	238	95	2	70-130/30
123-91-1	1,4-Dioxane	25 U		1250	1170	94	1250	1230	98	5	70-130/30
97-63-2	Ethyl methacrylate	5.0 U		250	222	89	250	229	92	3	72-139/30
100-41-4	Ethylbenzene	1.0 U		250	266	106	250	263	105	1	70-130/30
87-68-3	Hexachlorobutadiene	5.0 U		250	227	91	250	254	102	11	70-130/30
591-78-6	2-Hexanone	5.0 U		250	226	90	250	233	93	3	70-130/30
98-82-8	Isopropylbenzene	5.0 U		250	268	107	250	266	106	1	70-130/30
99-87-6	p-Isopropyltoluene	5.0 U		250	248	99	250	252	101	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	1.0 U		250	199	80	250	207	83	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		250	230	92	250	237	95	3	70-130/30
74-95-3	Methylene bromide	5.0 U		250	244	98	250	249	100	2	70-130/30
75-09-2	Methylene chloride	2.0 U		250	214	86	250	216	86	1	70-130/30
91-20-3	Naphthalene	5.0 U		250	202	81	250	279	112	32* b	70-130/30
103-65-1	n-Propylbenzene	5.0 U		250	269	108	250	269	108	0	70-130/30
100-42-5	Styrene	5.0 U		250	261	104	250	258	103	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		250	238	95	250	238	95	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		250	268	107	250	281	112	5	70-130/30
127-18-4	Tetrachloroethene	1.4		250	240	95	250	235	93	2	70-130/30
108-88-3	Toluene	1.0 U		250	255	102	250	255	102	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	5.0 U		250	197	79	250	272	109	32* b	70-130/30
120-82-1	1,2,4-Trichlorobenzene	5.0 U		250	216	86	250	256	102	17	70-130/30
71-55-6	1,1,1-Trichloroethane	7.1		250	229	89	250	226	88	1	70-130/30
79-00-5	1,1,2-Trichloroethane	1.0 U		250	247	99	250	252	101	2	70-130/30
79-01-6	Trichloroethene	1.0		250	234	93	250	235	94	0	70-130/30
75-69-4	Trichlorofluoromethane	1.0 U		250	245	98	250	238	95	3	70-130/30
96-18-4	1,2,3-Trichloropropane	5.0 U		250	237	95	250	245	98	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	5.0 U		250	267	107	250	269	108	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	5.0 U		250	241	96	250	242	97	0	70-130/30
108-05-4	Vinyl Acetate	5.0 U		250	253	101	250	256	102	1	70-130/30
75-01-4	Vinyl chloride	1.0 U		250	236	94	250	235	94	0	70-130/30
	m,p-Xylene	1.0 U		500	522	104	500	519	104	1	70-130/30
95-47-6	o-Xylene	1.0 U		250	259	104	250	257	103	1	70-130/30
1330-20-7	Xylene (total)	1.0 U		750	781	104	750	776	103	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19842-1MS	V17856.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1MSD	V17857.D	5	04/22/13	AMY	n/a	n/a	MSV705
MC19842-1	V17855.D	1	04/22/13	AMY	n/a	n/a	MSV705

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-1, MC19830-2, MC19830-4, MC19830-5, MC19830-6, MC19830-8

CAS No.	Surrogate Recoveries	MS	MSD	MC19842-1	Limits
1868-53-7	Dibromofluoromethane	87%	87%	86%	70-130%
2037-26-5	Toluene-D8	91%	92%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	92%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Compound	MC19877-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	5.9	J	250	269	105	250	255	100	5	70-130/30
107-02-8	Acrolein	ND		1250	1570	126	1250	1520	122	3	70-130/30
107-13-1	Acrylonitrile	ND		250	265	106	250	252	101	5	70-130/30
71-43-2	Benzene	ND		250	250	100	250	238	95	5	70-130/30
108-86-1	Bromobenzene	ND		250	269	108	250	261	104	3	70-130/30
74-97-5	Bromochloromethane	ND		250	262	105	250	250	100	5	70-130/30
75-27-4	Bromodichloromethane	ND		250	242	97	250	232	93	4	70-130/30
75-25-2	Bromoform	ND		250	238	95	250	232	93	3	70-130/30
74-83-9	Bromomethane	ND		250	257	103	250	251	100	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	290	116	250	276	110	5	70-130/30
104-51-8	n-Butylbenzene	ND		250	231	92	250	222	89	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	223	89	250	218	87	2	70-130/30
98-06-6	tert-Butylbenzene	ND		250	258	103	250	241	96	7	70-130/30
75-15-0	Carbon disulfide	ND		250	226	90	250	219	88	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	237	95	250	226	90	5	70-130/30
108-90-7	Chlorobenzene	ND		250	252	101	250	241	96	4	70-130/30
75-00-3	Chloroethane	ND		250	267	107	250	263	105	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	23.2	9* [a]	200* [b]	70-130/30
67-66-3	Chloroform	ND		250	249	100	250	238	95	5	70-130/30
74-87-3	Chloromethane	ND		250	261	104	250	250	100	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	249	100	250	240	96	4	70-130/30
106-43-4	p-Chlorotoluene	ND		250	257	103	250	245	98	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	243	97	250	238	95	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	252	101	250	245	98	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	250	100	250	243	97	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	256	102	250	248	99	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	228	91	250	219	88	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	258	103	250	247	99	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	258	103	250	246	98	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	255	102	250	246	98	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	250	100	250	243	97	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	256	102	250	246	98	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	259	104	250	247	99	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	276	110	250	265	106	4	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	253	101	250	242	97	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	274	110	250	259	104	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: Method: SW846 8260B

MC19830-3

CAS No.	Compound	MC19877-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	237	95	250	225	90	5	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	261	104	250	248	99	5	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1390	111	1250	1310	105	6	70-130/30
97-63-2	Ethyl methacrylate	ND		250	275	110	250	261	104	5	72-139/30
100-41-4	Ethylbenzene	ND		250	280	112	250	267	107	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	224	90	250	234	94	4	70-130/30
591-78-6	2-Hexanone	ND		250	296	118	250	282	113	5	70-130/30
98-82-8	Isopropylbenzene	ND		250	274	110	250	263	105	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	248	99	250	239	96	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	5.1		250	261	102	250	251	98	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	290	116	250	275	110	5	70-130/30
74-95-3	Methylene bromide	ND		250	275	110	250	259	104	6	70-130/30
75-09-2	Methylene chloride	ND		250	252	101	250	240	96	5	70-130/30
91-20-3	Naphthalene	ND		250	317	127	250	318	127	0	70-130/30
103-65-1	n-Propylbenzene	ND		250	270	108	250	260	104	4	70-130/30
100-42-5	Styrene	ND		250	275	110	250	264	106	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	244	98	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	312	125	250	302	121	3	70-130/30
127-18-4	Tetrachloroethene	ND		250	255	102	250	245	98	4	70-130/30
108-88-3	Toluene	ND		250	269	108	250	257	103	5	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	247	99	250	288	115	15	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	246	98	250	262	105	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	235	94	250	225	90	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	276	110	250	262	105	5	70-130/30
79-01-6	Trichloroethene	ND		250	247	99	250	236	94	5	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	227	91	250	220	88	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	265	106	250	257	103	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	278	111	250	262	105	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	246	98	250	234	94	5	70-130/30
108-05-4	Vinyl Acetate	ND		250	275	110	250	264	106	4	70-130/30
75-01-4	Vinyl chloride	ND		250	222	89	250	218	87	2	70-130/30
	m,p-Xylene	ND		500	556	111	500	527	105	5	70-130/30
95-47-6	o-Xylene	ND		250	274	110	250	263	105	4	70-130/30
1330-20-7	Xylene (total)	ND		750	830	111	750	791	105	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19830-3

CAS No.	Surrogate Recoveries	MS	MSD	MC19877-3	Limits
1868-53-7	Dibromofluoromethane	85%	86%	87%	70-130%
2037-26-5	Toluene-D8	91%	90%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	93%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV705-CC704	**Injection Date:**	04/22/13
Lab File ID:	V17849.D	**Injection Time:**	08:09
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	827135	6.51	1295208	7.70	600445	11.05	669406	13.26	104286	3.46
Upper Limit [a]	1654270	7.01	2590416	8.20	1200890	11.55	1338812	13.76	208572	3.96
Lower Limit [b]	413568	6.01	647604	7.20	300223	10.55	334703	12.76	52143	2.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV705-BS	830948	6.51	1312775	7.70	604219	11.05	673850	13.26	106542	3.46
MSV705-BSD	845226	6.50	1330374	7.69	613122	11.05	679619	13.26	116858	3.45
MSV705-MB	793943	6.50	1268389	7.69	579941	11.05	626658	13.26	100573	3.46
MC19842-1	782423	6.51	1251546	7.70	576742	11.05	616782	13.26	104049	3.46
MC19842-1MS	815363	6.51	1282990	7.70	593078	11.05	659689	13.26	106926	3.47
MC19842-1MSD	817939	6.50	1280971	7.69	598627	11.05	657523	13.26	115186	3.46
ZZZZZZ	826651	6.51	1320661	7.70	607169	11.05	665868	13.26	112636	3.46
ZZZZZZ	814979	6.50	1308905	7.70	599822	11.05	641174	13.26	114339	3.46
ZZZZZZ	770227	6.51	1238041	7.70	566413	11.05	601022	13.26	101124	3.46
MC19830-6	777546	6.51	1250348	7.70	577467	11.05	617161	13.26	102257	3.47
MC19830-2	789610	6.51	1275745	7.70	589803	11.05	628156	13.27	103421	3.47
MC19830-8	749363	6.51	1211931	7.70	562812	11.05	597032	13.27	101157	3.47
MC19830-1	755686	6.51	1228426	7.70	575316	11.05	636776	13.27	105072	3.46
ZZZZZZ	767983	6.51	1242401	7.70	574521	11.05	609186	13.27	94896	3.47
ZZZZZZ	750984	6.51	1223147	7.70	559559	11.05	600731	13.27	96189	3.47
ZZZZZZ	759440	6.51	1240008	7.70	572597	11.05	607168	13.27	99887	3.46
ZZZZZZ	729757	6.51	1185486	7.70	549762	11.05	598733	13.27	98072	3.46
ZZZZZZ	731357	6.51	1194698	7.70	562250	11.05	585815	13.27	86397	3.46
ZZZZZZ	717001	6.51	1183183	7.70	551218	11.05	581386	13.27	93257	3.47
MC19830-4	793890	6.51	1249086	7.70	581982	11.05	627181	13.27	106929	3.46
MC19830-5	815235	6.51	1285830	7.70	590879	11.05	647324	13.27	104197	3.47

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV709-CC704	**Injection Date:**	04/24/13
Lab File ID:	V17967.D	**Injection Time:**	12:43
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	796689	6.57	1246182	7.75	579737	11.09	647871	13.30	147193	3.52
Upper Limit [a]	1593378	7.07	2492364	8.25	1159474	11.59	1295742	13.80	294386	4.02
Lower Limit [b]	398345	6.07	623091	7.25	289869	10.59	323936	12.80	73597	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV709-BS	805628	6.57	1258154	7.75	586918	11.09	660280	13.30	149960	3.51
MSV709-BSD	814645	6.57	1280128	7.75	593957	11.09	658067	13.30	149886	3.51
MSV709-MB	773345	6.58	1233538	7.76	573291	11.09	632932	13.30	153391	3.52
ZZZZZZ	761614	6.58	1220735	7.76	564577	11.09	622909	13.30	148120	3.52
MC19877-3	790550	6.58	1290544	7.76	608056	11.09	682479	13.30	158483	3.52
ZZZZZZ	780378	6.58	1221899	7.76	578007	11.09	640236	13.30	169932	3.53
ZZZZZZ	804092	6.57	1254906	7.75	580900	11.09	647057	13.30	176928	3.51
ZZZZZZ	788545	6.57	1277121	7.75	588780	11.09	658310	13.30	639106[c]	3.51
MC19830-3	794637	6.58	1254474	7.76	589979	11.09	655979	13.30	218630	3.53
ZZZZZZ	799810	6.58	1269977	7.76	578154	11.09	641796	13.30	160036	3.52
ZZZZZZ	773447	6.58	1228403	7.76	570872	11.09	625536	13.30	166808	3.52
ZZZZZZ	790208	6.57	1246515	7.75	581559	11.09	634983	13.30	172630	3.52
ZZZZZZ	863248	6.58	1354351	7.76	629359	11.09	685739	13.30	179917	3.52
MC19877-3MS	841147	6.58	1321321	7.76	607543	11.09	685956	13.30	172624	3.52
MC19877-3MSD	862846	6.58	1370067	7.75	625301	11.09	707021	13.30	170413	3.52
ZZZZZZ	899811	6.57	1428328	7.75	661742	11.09	742101	13.30	166270	3.51
ZZZZZZ	831677	6.57	1323970	7.75	604687	11.09	681553	13.30	150741	3.51
ZZZZZZ	776130	6.57	1225834	7.75	565409	11.09	626173	13.30	132839	3.51
ZZZZZZ	813566	6.57	1281153	7.75	590502	11.09	659608	13.30	127207	3.51
ZZZZZZ	802007	6.57	1274527	7.75	588530	11.09	664155	13.30	127747	3.51
ZZZZZZ	785913	6.57	1237047	7.75	573088	11.09	643864	13.30	122273	3.51
ZZZZZZ	773459	6.57	1240730	7.75	576138	11.08	658068	13.30	123209	3.50
ZZZZZZ	752218	6.57	1194630	7.75	558466	11.09	627777	13.30	117421	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19830-1	V17864.D	86	91	92
MC19830-2	V17862.D	86	91	92
MC19830-3	V17978.D	82	91	92
MC19830-4	V17873.D	83	91	90
MC19830-5	V17874.D	83	90	91
MC19830-6	V17861.D	86	91	91
MC19830-8	V17863.D	87	91	92
MC19842-1MS	V17856.D	87	91	91
MC19842-1MSD	V17857.D	87	92	92
MC19877-3MS	V17983.D	85	91	91
MC19877-3MSD	V17984.D	86	90	92
MSV705-BS	V17850.D	87	91	91
MSV705-BSD	V17851.D	86	91	91
MSV705-MB	V17854.D	84	90	91
MSV709-BS	V17968.D	86	92	91
MSV709-BSD	V17969.D	86	91	92
MSV709-MB	V17972.D	84	90	91

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	3.5	5.0	0.51	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MB	F63170.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	88%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-MB	W11313.D	1	04/19/13	KR	04/17/13	OP32692	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	2.2	5.0	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-MB	W11313.D	1	04/19/13	KR	04/17/13	OP32692	MSW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	10-80%
4165-62-2	Phenol-d5	40%	10-72%
118-79-6	2,4,6-Tribromophenol	121%	42-134%
4165-60-0	Nitrobenzene-d5	53%	25-117%
321-60-8	2-Fluorobiphenyl	45%	24-112%
1718-51-0	Terphenyl-d14	98%	48-133%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MB	I82727.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	15-110%
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32693-MB	I82720.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	24%	15-110%
4165-62-2	Phenol-d5	18%	15-110%
118-79-6	2,4,6-Tribromophenol	51%	15-110%
4165-60-0	Nitrobenzene-d5	47%	30-130%
321-60-8	2-Fluorobiphenyl	40%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	35.5	36	30-130
95-57-8	2-Chlorophenol	100	108	108	30-130
59-50-7	4-Chloro-3-methyl phenol	100	113	113	30-130
120-83-2	2,4-Dichlorophenol	100	120	120	30-130
105-67-9	2,4-Dimethylphenol	100	110	110	30-130
51-28-5	2,4-Dinitrophenol	100	119	119	30-130
534-52-1	4,6-Dinitro-o-cresol	100	127	127	30-130
95-48-7	2-Methylphenol	100	90.0	90	30-130
	3&4-Methylphenol	200	183	92	30-130
88-75-5	2-Nitrophenol	100	123	123	30-130
100-02-7	4-Nitrophenol	100	59.8	60	30-130
87-86-5	Pentachlorophenol	100	125	125	30-130
108-95-2	Phenol	100	56.2	56	30-130
95-95-4	2,4,5-Trichlorophenol	100	130	130	30-130
88-06-2	2,4,6-Trichlorophenol	100	126	126	30-130
62-53-3	Aniline	50	19.9	40	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.9	92	40-140
85-68-7	Butyl benzyl phthalate	50	46.0	92	40-140
100-51-6	Benzyl Alcohol	50	28.2	56	40-140
91-58-7	2-Chloronaphthalene	50	46.6	93	40-140
106-47-8	4-Chloroaniline	50	32.1	64	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	45.6	91	40-140
111-44-4	bis(2-Chloroethyl)ether	50	42.7	85	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	51.9	104	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.9	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.8	92	40-140
121-14-2	2,4-Dinitrotoluene	50	47.2	94	40-140
606-20-2	2,6-Dinitrotoluene	50	50.3	101	40-140
91-94-1	3,3'-Dichlorobenzidine	50	5.9	12* [a]	40-140
132-64-9	Dibenzofuran	50	44.3	89	40-140
84-74-2	Di-n-butyl phthalate	50	46.2	92	40-140
117-84-0	Di-n-octyl phthalate	50	52.3	105	40-140
84-66-2	Diethyl phthalate	50	44.8	90	40-140
131-11-3	Dimethyl phthalate	50	33.3	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.4	97	40-140
118-74-1	Hexachlorobenzene	50	46.8	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-BS	F63171.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	17.7	35* [a]	40-140
67-72-1	Hexachloroethane	50	38.5	77	40-140
78-59-1	Isophorone	50	49.0	98	40-140
88-74-4	2-Nitroaniline	50	47.8	96	40-140
99-09-2	3-Nitroaniline	50	35.6	71	40-140
100-01-6	4-Nitroaniline	50	42.4	85	40-140
98-95-3	Nitrobenzene	50	44.7	89	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	48.2	96	40-140
86-30-6	N-Nitrosodiphenylamine	50	45.4	91	40-140
110-86-1	Pyridine	50	21.8	44	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	15-110%
4165-62-2	Phenol-d5	38%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	93%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-BS	W11912.D	1	05/07/13	KR	04/17/13	OP32692	MSW550

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	109	90.1	83	30-130
95-57-8	2-Chlorophenol	109	70.8	65	30-130
59-50-7	4-Chloro-3-methyl phenol	109	91.9	85	30-130
120-83-2	2,4-Dichlorophenol	109	87.6	81	30-130
105-67-9	2,4-Dimethylphenol	109	47.6	44	30-130
51-28-5	2,4-Dinitrophenol	109	109	100	30-130
534-52-1	4,6-Dinitro-o-cresol	109	109	100	30-130
95-48-7	2-Methylphenol	109	63.0	58	30-130
	3&4-Methylphenol	217	119	55	30-130
88-75-5	2-Nitrophenol	109	85.8	79	30-130
100-02-7	4-Nitrophenol	109	53.9	50	30-130
87-86-5	Pentachlorophenol	109	144	132* [a]	30-130
108-95-2	Phenol	109	35.7	33	30-130
95-95-4	2,4,5-Trichlorophenol	109	112	103	30-130
88-06-2	2,4,6-Trichlorophenol	109	112	103	30-130
62-53-3	Aniline	54.3	12.1	22* [a]	40-140
101-55-3	4-Bromophenyl phenyl ether	54.3	38.4	71	40-140
85-68-7	Butyl benzyl phthalate	54.3	28.3	52	40-140
100-51-6	Benzyl Alcohol	54.3	34.3	63	40-140
91-58-7	2-Chloronaphthalene	54.3	29.3	54	40-140
106-47-8	4-Chloroaniline	54.3	26.8	49	40-140
111-91-1	bis(2-Chloroethoxy)methane	54.3	26.1	48	40-140
111-44-4	bis(2-Chloroethyl)ether	54.3	31.6	58	40-140
108-60-1	bis(2-Chloroisopropyl)ether	54.3	37.1	68	40-140
7005-72-3	4-Chlorophenyl phenyl ether	54.3	36.1	66	40-140
122-66-7	1,2-Diphenylhydrazine	54.3	41.8	77	40-140
121-14-2	2,4-Dinitrotoluene	54.3	46.6	86	40-140
606-20-2	2,6-Dinitrotoluene	54.3	43.7	80	40-140
91-94-1	3,3'-Dichlorobenzidine	54.3	5.6	10* [a]	40-140
132-64-9	Dibenzofuran	54.3	36.6	67	40-140
84-74-2	Di-n-butyl phthalate	54.3	39.9	73	40-140
117-84-0	Di-n-octyl phthalate	54.3	48.4	89	40-140
84-66-2	Diethyl phthalate	54.3	27.5	51	40-140
131-11-3	Dimethyl phthalate	54.3	7.5	14* [a]	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	54.3	49.6	91	40-140
118-74-1	Hexachlorobenzene	54.3	42.9	79	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-BS	W11912.D	1	05/07/13	KR	04/17/13	OP32692	MSW550

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	54.3	7.0	13* [a]	40-140
67-72-1	Hexachloroethane	54.3	19.5	36* [a]	40-140
78-59-1	Isophorone	54.3	37.7	69	40-140
88-74-4	2-Nitroaniline	54.3	44.0	81	40-140
99-09-2	3-Nitroaniline	54.3	38.4	71	40-140
100-01-6	4-Nitroaniline	54.3	41.2	76	40-140
98-95-3	Nitrobenzene	54.3	32.5	60	40-140
62-75-9	n-Nitrosodimethylamine	54.3	19.9	37* [a]	40-140
621-64-7	N-Nitroso-di-n-propylamine	54.3	35.2	65	40-140
86-30-6	N-Nitrosodiphenylamine	54.3	20.2	37* [a]	40-140
110-86-1	Pyridine	54.3	15.9	29* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	61%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	30%	30-130%
321-60-8	2-Fluorobiphenyl	64%	30-130%
1718-51-0	Terphenyl-d14	92%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-BS	I82728.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.5	79	40-140
208-96-8	Acenaphthylene	50	31.2	62	40-140
120-12-7	Anthracene	50	40.8	82	40-140
56-55-3	Benzo(a)anthracene	50	41.3	83	40-140
50-32-8	Benzo(a)pyrene	50	36.5	73	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	40-140
207-08-9	Benzo(k)fluoranthene	50	42.4	85	40-140
218-01-9	Chrysene	50	39.4	79	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.3	81	40-140
206-44-0	Fluoranthene	50	41.3	83	40-140
86-73-7	Fluorene	50	37.2	74	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	40-140
90-12-0	1-Methylnaphthalene	50	38.4	77	40-140
91-57-6	2-Methylnaphthalene	50	37.8	76	40-140
85-01-8	Phenanthrene	50	40.6	81	40-140
129-00-0	Pyrene	50	40.8	82	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	81%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32693-BS	I82721.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	29.7	59	40-140
208-96-8	Acenaphthylene	50	23.7	47	40-140
120-12-7	Anthracene	50	37.7	75	40-140
56-55-3	Benzo(a)anthracene	50	40.6	81	40-140
50-32-8	Benzo(a)pyrene	50	35.3	71	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	44.6	89	40-140
207-08-9	Benzo(k)fluoranthene	50	41.3	83	40-140
218-01-9	Chrysene	50	38.9	78	40-140
53-70-3	Dibenzo(a,h)anthracene	50	39.1	78	40-140
206-44-0	Fluoranthene	50	39.6	79	40-140
86-73-7	Fluorene	50	30.6	61	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.5	77	40-140
90-12-0	1-Methylnaphthalene	50	25.7	51	40-140
91-57-6	2-Methylnaphthalene	50	24.9	50	40-140
85-01-8	Phenanthrene	50	37.5	75	40-140
129-00-0	Pyrene	50	39.7	79	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	77%	15-110%
4165-60-0	Nitrobenzene-d5	56%	30-130%
321-60-8	2-Fluorobiphenyl	54%	30-130%
1718-51-0	Terphenyl-d14	79%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: Method: SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	60.7	61	100	59.1	59	3	30-130/20
95-57-8	2-Chlorophenol	ND		100	111	111	100	112	112	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	119	119	100	117	117	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	126	126	100	125	125	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	113	113	100	114	114	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	128	128	100	123	123	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	136	136* [a]	100	135	135* [a]	1	30-130/20
95-48-7	2-Methylphenol	ND		100	91.3	91	100	92.1	92	1	30-130/20
	3&4-Methylphenol	ND		200	189	95	200	185	93	2	30-130/20
88-75-5	2-Nitrophenol	ND		100	130	130	100	131	131* [a]	1	30-130/20
100-02-7	4-Nitrophenol	ND		100	60.9	61	100	60.6	61	0	30-130/20
87-86-5	Pentachlorophenol	ND		100	138	138* [a]	100	131	131* [a]	5	30-130/20
108-95-2	Phenol	2.7	J	100	52.1	49	100	52.5	50	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	137	137* [a]	100	134	134* [a]	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	134	134* [a]	100	130	130	3	30-130/20
62-53-3	Aniline	ND		50	21.8	44	50	23.2	46	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.8	94	50	46.2	92	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	48.3	97	50	47.2	94	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	29.3	59	50	31.4	63	7	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.9	96	50	47.7	95	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	30.6	61	50	29.7	59	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.6	91	50	45.6	91	0	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.7	85	50	44.6	89	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	52.1	104	50	51.9	104	0	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	47.3	95	50	46.8	94	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	47.2	94	50	47.8	96	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	47.8	96	50	47.4	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	50.5	101	50	50.6	101	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	5.7	11* [b]	50	6.0	12* [b]	5	40-140/20
132-64-9	Dibenzofuran	ND		50	45.4	91	50	44.4	89	2	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	47.1	94	50	46.2	92	2	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.1	108	50	52.5	105	3	40-140/20
84-66-2	Diethyl phthalate	ND		50	46.0	92	50	45.2	90	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	37.5	75	50	35.4	71	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	3.1		50	49.8	93	50	48.8	91	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.9	98	50	48.0	96	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32681-MS	F63172.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
OP32681-MSD	F63173.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952
MC19800-2	F63174.D	1	04/19/13	KR	04/16/13	OP32681	MSF2952

The QC reported here applies to the following samples: Method: SW846 8270C

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	MC19800-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	19.2	38* [b]	50	18.4	37* [b]	4	40-140/20
67-72-1	Hexachloroethane	ND		50	40.2	80	50	42.2	84	5	40-140/20
78-59-1	Isophorone	ND		50	49.2	98	50	49.8	100	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	48.3	97	50	48.4	97	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	32.1	64	50	32.7	65	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.5	85	50	43.4	87	2	40-140/20
98-95-3	Nitrobenzene	ND		50	45.1	90	50	47.0	94	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.7	55	50	28.3	57	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.9	96	50	48.3	97	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.1	94	50	46.1	92	2	40-140/20
110-86-1	Pyridine	ND		50	21.9	44	50	21.2	42	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-2	Limits
367-12-4	2-Fluorophenol	52%	53%	49%	15-110%
4165-62-2	Phenol-d5	35%	35%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	95%	95%	98%	15-110%
4165-60-0	Nitrobenzene-d5	93%	95%	89%	30-130%
321-60-8	2-Fluorobiphenyl	91%	92%	87%	30-130%
1718-51-0	Terphenyl-d14	91%	93%	93%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-MS	W11913.D	1	05/07/13	KR	04/17/13	OP32692	MSW550
OP32692-MSD	W11914.D	1	05/07/13	KR	04/17/13	OP32692	MSW550
MC19686-6	W11915.D	1	05/07/13	KR	04/17/13	OP32692	MSW550

The QC reported here applies to the following samples: Method: SW846 8270C

MC19830-8

CAS No.	Compound	MC19686-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		109	71.8	66	106	97.7	92	31* a	30-130/20
95-57-8	2-Chlorophenol	ND		109	83.4	77	106	83.7	79	0	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		109	99.7	92	106	105	99	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		109	95.2	88	106	102	96	7	30-130/20
105-67-9	2,4-Dimethylphenol	ND		109	46.0	42	106	58.5	55	24* a	30-130/20
51-28-5	2,4-Dinitrophenol	ND		109	111	102	106	120	113	8	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		109	119	109	106	116	109	3	30-130/20
95-48-7	2-Methylphenol	ND		109	82.6	76	106	77.7	73	6	30-130/20
	3&4-Methylphenol	ND		217	158	73	213	146	69	8	30-130/20
88-75-5	2-Nitrophenol	ND		109	95.0	87	106	101	95	6	30-130/20
100-02-7	4-Nitrophenol	ND		109	61.7	57	106	57.7	54	7	30-130/20
87-86-5	Pentachlorophenol	ND		109	152	140* b	106	114	107	29* a	30-130/20
108-95-2	Phenol	ND		109	50.4	46	106	43.5	41	15	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		109	116	107	106	125	117	7	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		109	115	106	106	125	117	8	30-130/20
62-53-3	Aniline	ND		54.3	13.8	25* b	53.2	15.6	29* b	12	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.3	41.2	76	53.2	39.4	74	4	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.3	50.1	92	53.2	40.6	76	21* a	40-140/20
100-51-6	Benzyl Alcohol	ND		54.3	31.8	59	53.2	34.6	65	8	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.3	32.3	59	53.2	33.0	62	2	40-140/20
106-47-8	4-Chloroaniline	ND		54.3	27.8	51	53.2	30.6	58	10	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.3	28.1	52	53.2	28.7	54	2	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.3	35.6	66	53.2	35.0	66	2	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.3	43.1	79	53.2	41.4	78	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.3	38.9	72	53.2	38.8	73	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		54.3	44.3	82	53.2	42.2	79	5	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.3	48.4	89	53.2	46.1	87	5	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.3	44.3	82	53.2	42.1	79	5	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.3	6.1	11* b	53.2	5.7	11* b	7	40-140/20
132-64-9	Dibenzofuran	ND		54.3	38.4	71	53.2	38.3	72	0	40-140/20
84-74-2	Di-n-butyl phthalate	ND		54.3	48.0	88	53.2	41.3	78	15	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.3	44.4	82	53.2	42.1	79	5	40-140/20
84-66-2	Diethyl phthalate	ND		54.3	47.5	87	53.2	40.3	76	16	40-140/20
131-11-3	Dimethyl phthalate	ND		54.3	44.8	82	53.2	30.1	57	39* a	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.3	45.5	84	53.2	45.4	85	0	40-140/20
118-74-1	Hexachlorobenzene	ND		54.3	44.1	81	53.2	40.6	76	8	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32692-MS	W11913.D	1	05/07/13	KR	04/17/13	OP32692	MSW550
OP32692-MSD	W11914.D	1	05/07/13	KR	04/17/13	OP32692	MSW550
MC19686-6	W11915.D	1	05/07/13	KR	04/17/13	OP32692	MSW550

The QC reported here applies to the following samples: Method: SW846 8270C

MC19830-8

CAS No.	Compound	MC19686-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		54.3	7.8	14* [b]	53.2	8.1	15* [b]	4	40-140/20
67-72-1	Hexachloroethane	ND		54.3	24.7	45	53.2	21.9	41	12	40-140/20
78-59-1	Isophorone	ND		54.3	37.9	70	53.2	40.1	75	6	40-140/20
88-74-4	2-Nitroaniline	ND		54.3	44.5	82	53.2	45.9	86	3	40-140/20
99-09-2	3-Nitroaniline	ND		54.3	39.1	72	53.2	38.9	73	1	40-140/20
100-01-6	4-Nitroaniline	ND		54.3	42.6	78	53.2	41.4	78	3	40-140/20
98-95-3	Nitrobenzene	ND		54.3	36.5	67	53.2	36.5	69	0	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		54.3	22.5	41	53.2	21.7	41	4	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.3	36.9	68	53.2	38.7	73	5	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.3	20.9	38* [b]	53.2	19.7	37* [b]	6	40-140/20
110-86-1	Pyridine	ND		54.3	17.9	33* [b]	53.2	17.1	32* [b]	5	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19686-6	Limits
367-12-4	2-Fluorophenol	71%	70%	29%	15-110%
4165-62-2	Phenol-d5	32%	28%	21%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	81%	70%	15-110%
4165-60-0	Nitrobenzene-d5	33%	34%	57%	30-130%
321-60-8	2-Fluorobiphenyl	69%	72%	52%	30-130%
1718-51-0	Terphenyl-d14	59%	77%	69%	30-130%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32682-MS	I82729.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
OP32682-MSD	I82730.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075
MC19800-3	I82731.D	1	04/19/13	NS	04/16/13	OP32682	MSI3075

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5

CAS No.	Compound	MC19800-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	39.9	80	50	40.1	80	1	40-140/20
208-96-8	Acenaphthylene	ND		50	31.6	63	50	31.8	64	1	40-140/20
120-12-7	Anthracene	ND		50	41.3	83	50	41.2	82	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	41.8	84	50	41.9	84	0	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	36.8	74	50	37.2	74	1	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	38.3	77	50	39.4	79	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	45.4	91	50	45.9	92	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	43.6	87	50	42.5	85	3	40-140/20
218-01-9	Chrysene	ND		50	40.4	81	50	39.9	80	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	40.3	81	50	40.6	81	1	40-140/20
206-44-0	Fluoranthene	ND		50	41.9	84	50	41.7	83	0	40-140/20
86-73-7	Fluorene	ND		50	37.6	75	50	37.4	75	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	39.8	80	50	40.0	80	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	40.0	80	50	39.9	80	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	39.3	79	50	39.2	78	0	40-140/20
85-01-8	Phenanthrene	ND		50	41.4	83	50	41.1	82	1	40-140/20
129-00-0	Pyrene	ND		50	41.7	83	50	41.5	83	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-3	Limits
367-12-4	2-Fluorophenol	49%	49%	44%	15-110%
4165-62-2	Phenol-d5	31%	32%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	80%	78%	15-110%
4165-60-0	Nitrobenzene-d5	80%	79%	77%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	78%	30-130%
1718-51-0	Terphenyl-d14	80%	82%	81%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32693-MS	I82722.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075
OP32693-MSD	I82723.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075
MC19800-9	I82724.D	1	04/19/13	NS	04/17/13	OP32693	MSI3075

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19830-8

CAS No.	Compound	MC19800-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		54.3	34.0	63	53.2	34.5	65	1	40-140/20
208-96-8	Acenaphthylene	ND		54.3	26.8	49	53.2	26.9	51	0	40-140/20
120-12-7	Anthracene	ND		54.3	41.9	77	53.2	38.5	72	8	40-140/20
56-55-3	Benzo(a)anthracene	ND		54.3	40.7	75	53.2	38.2	72	6	40-140/20
50-32-8	Benzo(a)pyrene	ND		54.3	35.0	64	53.2	32.6	61	7	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		54.3	38.8	71	53.2	35.4	67	9	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		54.3	43.9	81	53.2	40.8	77	7	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.3	39.4	72	53.2	38.1	72	3	40-140/20
218-01-9	Chrysene	ND		54.3	37.6	69	53.2	36.6	69	3	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		54.3	38.2	70	53.2	36.1	68	6	40-140/20
206-44-0	Fluoranthene	ND		54.3	43.8	81	53.2	39.9	75	9	40-140/20
86-73-7	Fluorene	ND		54.3	35.6	66	53.2	34.1	64	4	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		54.3	37.9	70	53.2	35.7	67	6	40-140/20
90-12-0	1-Methylnaphthalene	ND		54.3	30.7	56	53.2	31.0	58	1	40-140/20
91-57-6	2-Methylnaphthalene	ND		54.3	30.2	56	53.2	30.1	57	0	40-140/20
85-01-8	Phenanthrene	ND		54.3	42.3	78	53.2	38.8	73	9	40-140/20
129-00-0	Pyrene	ND		54.3	43.1	79	53.2	39.1	74	10	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-9	Limits
367-12-4	2-Fluorophenol	34%	34%	29%	15-110%
4165-62-2	Phenol-d5	29%	26%	22%	15-110%
118-79-6	2,4,6-Tribromophenol	75%	73%	64%	15-110%
4165-60-0	Nitrobenzene-d5	62%	62%	54%	30-130%
321-60-8	2-Fluorobiphenyl	59%	61%	49%	30-130%
1718-51-0	Terphenyl-d14	53%	69%	61%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2952-CC2937	**Injection Date:**	04/19/13
Lab File ID:	F63169.D	**Injection Time:**	08:03
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	26965	4.06	100596	5.05	64690	6.49	121165	7.84	140401	10.63	125531	12.10
Upper Limit [a]	53930	4.56	201192	5.55	129380	6.99	242330	8.34	280802	11.13	251062	12.60
Lower Limit [b]	13483	3.56	50298	4.55	32345	5.99	60583	7.34	70201	10.13	62766	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32681-MB	21226	4.06	79894	5.05	51442	6.49	95555	7.84	108323	10.62	100710	12.10
OP32681-BS	21277	4.06	80083	5.06	51007	6.49	96593	7.85	109464	10.63	101150	12.10
OP32681-MS	21834	4.06	81093	5.05	51106	6.49	95945	7.85	107570	10.63	97193	12.10
OP32681-MSD	19466	4.06	73354	5.05	46863	6.49	88333	7.84	99932	10.63	91498	12.10
MC19800-2	18953	4.06	72238	5.05	46161	6.49	85827	7.84	96461	10.62	91108	12.09
ZZZZZZ	18531	4.06	71378	5.05	45366	6.49	82508	7.84	98329	10.62	93986	12.10
ZZZZZZ	20715	4.06	76937	5.05	48376	6.49	86774	7.84	107848	10.62	101918	12.10
ZZZZZZ	20319	4.06	77713	5.05	49940	6.49	93335	7.84	107821	10.63	102870	12.10
ZZZZZZ	20374	4.06	74799	5.05	48121	6.49	88844	7.84	101827	10.62	98665	12.10
ZZZZZZ	23166	4.06	85839	5.05	54949	6.49	102196	7.84	115402	10.62	110980	12.10
ZZZZZZ	19637	4.06	74741	5.05	46722	6.49	86792	7.84	98279	10.62	88652	12.10
ZZZZZZ	17899	4.06	67412	5.05	42872	6.49	78035	7.84	89138	10.62	81087	12.10
ZZZZZZ	18353	4.06	69053	5.05	44757	6.49	79546	7.84	91283	10.62	84577	12.10
ZZZZZZ	19039	4.06	67789	5.05	42435	6.49	75658	7.84	92757	10.63	90851	12.10
ZZZZZZ	17484	4.06	65541	5.05	41935	6.49	75092	7.84	85083	10.62	78046	12.10
ZZZZZZ	16753	4.06	64226	5.05	40927	6.49	74940	7.84	85678	10.62	79138	12.10
ZZZZZZ	21424	4.06	78351	5.05	47525	6.49	87765	7.84	100055	10.62	92231	12.10
ZZZZZZ	14882	4.06	56289	5.05	36520	6.49	66449	7.84	76983	10.62	71026	12.09
ZZZZZZ	17836	4.06	66536	5.05	41919	6.49	76671	7.84	88686	10.62	81904	12.10
ZZZZZZ	17739	4.06	67482	5.05	42611	6.49	79842	7.84	91406	10.62	85552	12.09
ZZZZZZ	16939	4.06	63790	5.05	41000	6.49	74543	7.84	86084	10.62	79340	12.10
ZZZZZZ	19408	4.06	70122	5.05	42447	6.49	77859	7.84	92969	10.62	85770	12.09
MC19830-1	18126	4.06	67802	5.05	43620	6.49	77842	7.84	87315	10.63	81870	12.10
MC19830-2	16406	4.06	62419	5.05	39403	6.49	72880	7.84	84791	10.62	75333	12.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2953-CC2937	**Injection Date:**	04/20/13
Lab File ID:	F63200.D	**Injection Time:**	11:28
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	36988	4.06	138418	5.05	89939	6.49	171014	7.85	197698	10.63	179703	12.10
Upper Limit [a]	73976	4.56	276836	5.55	179878	6.99	342028	8.35	395396	11.13	359406	12.60
Lower Limit [b]	18494	3.56	69209	4.55	44970	5.99	85507	7.35	98849	10.13	89852	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19830-3	22993	4.06	87013	5.05	56707	6.49	104620	7.84	124793	10.62	119091	12.10
MC19830-4	24846	4.06	95457	5.06	59947	6.49	109447	7.84	130397	10.62	122404	12.10
MC19830-5	24316	4.06	91885	5.05	56790	6.49	105478	7.84	123778	10.62	115815	12.10
OP32718-MB	27944	4.06	106341	5.05	68510	6.49	126319	7.84	139296	10.62	127913	12.10
OP32718-BS	31464	4.06	118332	5.05	76546	6.49	141743	7.84	159379	10.63	147224	12.10
OP32710-MB	23706	4.06	90642	5.05	57741	6.49	109572	7.84	130024	10.62	120576	12.10
OP32708-MB	23706	4.06	90642	5.05	57741	6.49	109572	7.84	130024	10.62	120576	12.10
OP32710-BS	22508	4.06	85088	5.05	54489	6.49	103159	7.85	121568	10.62	112602	12.09
OP32708-BS	22508	4.06	85088	5.05	54489	6.49	103159	7.85	121568	10.62	112602	12.09
OP32710-MS	24628	4.06	90977	5.05	58929	6.49	111202	7.84	127558	10.63	120917	12.09
OP32708-MS	24628	4.06	90977	5.05	58929	6.49	111202	7.84	127558	10.63	120917	12.09
OP32708-MSD	23342	4.06	86599	5.05	55305	6.49	103318	7.84	118662	10.63	110102	12.09
OP32710-MSD	23342	4.06	86599	5.05	55305	6.49	103318	7.84	118662	10.63	110102	12.09
MC19800-16	24945	4.06	96324	5.05	62870	6.49	116217	7.84	134271	10.62	129225	12.09
MC19800-15	24945	4.06	96324	5.05	62870	6.49	116217	7.84	134271	10.62	129225	12.09
ZZZZZZ	22256	4.06	84987	5.05	54971	6.49	102213	7.84	120323	10.62	116169	12.09
ZZZZZZ	24075	4.06	90027	5.05	58893	6.49	109863	7.84	129379	10.62	125258	12.09
ZZZZZZ	24631	4.06	92872	5.05	59521	6.49	111323	7.84	126752	10.62	121280	12.09
ZZZZZZ	25134	4.06	94097	5.05	60144	6.49	110792	7.83	126846	10.62	122131	12.09
ZZZZZZ	26352	4.06	98118	5.05	63143	6.49	114957	7.84	130013	10.62	123368	12.09
ZZZZZZ	23943	4.06	91767	5.05	58565	6.49	104098	7.84	125497	10.62	120444	12.09
ZZZZZZ	24938	4.06	93557	5.05	58041	6.49	103549	7.84	131734	10.62	128017	12.09
ZZZZZZ	23189	4.06	89187	5.05	57500	6.49	104110	7.84	125011	10.62	120796	12.09
ZZZZZZ	24660	4.06	95198	5.05	62518	6.49	117414	7.84	138267	10.62	134073	12.09
ZZZZZZ	24897	4.06	94646	5.05	62685	6.49	115301	7.84	137466	10.62	131945	12.09
ZZZZZZ	29520	4.06	111178	5.05	72094	6.48	119335	7.84	147502	10.63	142536	12.11
ZZZZZZ	37080	4.06	138130	5.05	86868	6.49	148298	7.84	150908	10.62	133365	12.09
ZZZZZZ	40881	4.06	151463	5.05	92788	6.49	162030	7.84	164568	10.62	143860	12.09
ZZZZZZ	41494	4.06	150409	5.05	92172	6.49	160625	7.84	164560	10.62	150022	12.09
ZZZZZZ	23207	4.06	85765	5.05	54127	6.49	98198	7.84	119051	10.62	116848	12.10
ZZZZZZ	28631	4.06	106203	5.05	67144	6.49	120552	7.84	137985	10.62	138034	12.09
ZZZZZZ	26079	4.06	99901	5.05	64095	6.49	118352	7.84	133115	10.62	134093	12.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2953-CC2937	**Injection Date:**	04/20/13
Lab File ID:	F63200.D	**Injection Time:**	11:28
Instrument ID:	GCMSF	**Method:**	SW846 8270C

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	179692	3.39	460156	4.35	237134	5.75	434209	6.98	344879	9.71	639898	11.10
Upper Limit [a]	359384	3.89	920312	4.85	474268	6.25	868418	7.48	689758	10.21	1279796	11.60
Lower Limit [b]	89846	2.89	230078	3.85	118567	5.25	217105	6.48	172440	9.21	319949	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32693-MB	139424	3.38	358365	4.35	182528	5.75	318374	6.98	250282	9.70	486696	11.10
OP32693-BS	139690	3.38	355246	4.35	183610	5.75	323862	6.99	256817	9.71	499776	11.10
OP32693-MS	130368	3.38	333129	4.35	171280	5.75	301573	6.98	237538	9.71	463846	11.10
OP32693-MSD	125331	3.38	320948	4.35	165486	5.74	297198	6.98	233451	9.70	451858	11.09
MC19800-9	144481	3.38	377139	4.35	189735	5.74	326402	6.98	266470	9.70	515316	11.09
MC19830-8	131278	3.38	334825	4.35	163915	5.74	287165	6.98	232011	9.70	458538	11.10
ZZZZZZ	122472	3.38	323344	4.35	167074	5.74	292322	6.98	238730	9.70	465652	11.09
OP32682-MB	148798	3.38	379002	4.35	194285	5.74	343460	6.98	278659	9.70	542303	11.09
OP32682-BS	153296	3.39	386293	4.35	198122	5.75	354075	6.99	274577	9.71	521264	11.10
OP32682-MS	155723	3.39	391581	4.35	201115	5.75	357436	6.99	274726	9.71	525274	11.10
OP32682-MSD	146672	3.39	374500	4.35	193256	5.75	346963	6.99	272228	9.71	525153	11.10
MC19800-3	157230	3.38	402876	4.35	203336	5.74	358154	6.98	279045	9.70	551300	11.10
ZZZZZZ	150080	3.38	382672	4.35	196813	5.74	351141	6.98	283440	9.70	565244	11.09
ZZZZZZ	137342	3.39	341792	4.35	173991	5.74	308917	6.98	247995	9.70	490916	11.09
ZZZZZZ	151165	3.39	373443	4.35	189460	5.74	335217	6.98	270943	9.70	532909	11.09
ZZZZZZ	174567	3.39	458604	4.35	224352	5.75	394969	6.98	312619	9.71	602698	11.10
ZZZZZZ	149620	3.39	388888	4.35	201733	5.75	364947	6.98	299036	9.70	580990	11.10
ZZZZZZ	145419	3.39	372209	4.35	193062	5.75	347268	6.98	283829	9.70	562118	11.10
ZZZZZZ	154647	3.39	396581	4.35	200338	5.74	352331	6.98	283827	9.71	546027	11.10
ZZZZZZ	153832	3.38	398126	4.35	203856	5.74	358521	6.98	292968	9.70	571587	11.10
ZZZZZZ	140627	3.38	367318	4.35	183513	5.75	337924	6.98	279273	9.71	547113	11.10
ZZZZZZ	124448	3.38	327531	4.35	173742	5.74	309890	6.98	258582	9.70	503738	11.10
ZZZZZZ	144516	3.38	373750	4.35	192239	5.74	349202	6.98	292199	9.71	574680	11.10
ZZZZZZ	141757	3.38	378382	4.35	196962	5.75	359156	6.98	302709	9.70	592309	11.10
ZZZZZZ	150396	3.39	398302	4.35	206391	5.75	372293	6.98	314997	9.71	621297	11.10
ZZZZZZ	136149	3.39	356418	4.36	185150	5.75	333478	6.99	275713	9.71	529195	11.10
MC19830-1	142746	3.38	376341	4.35	192528	5.75	351934	6.99	292685	9.71	548493	11.11
MC19830-2	152229	3.38	407303	4.35	214602	5.74	380880	6.98	327110	9.71	617058	11.10
MC19830-3	129337	3.39	342167	4.35	182913	5.74	332736	6.98	285283	9.70	558557	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3075-CC3044	**Injection Date:**	04/19/13
Lab File ID:	I82719.D	**Injection Time:**	09:04
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3078-CC3044	**Injection Date:**	04/25/13
Lab File ID:	I82829.D	**Injection Time:**	09:18
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	201878	3.38	495656	4.35	260023	5.75	475372	6.98	373731	9.71	698102	11.10
Upper Limit [a]	403756	3.88	991312	4.85	520046	6.25	950744	7.48	747462	10.21	1396204	11.60
Lower Limit [b]	100939	2.88	247828	3.85	130012	5.25	237686	6.48	186866	9.21	349051	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	138465	3.38	339557	4.35	167611	5.74	308742	6.98	256659	9.70	496196	11.10
MC19830-4	110315	3.39	282740	4.35	147816	5.74	259064	6.98	210111	9.70	416568	11.09
MC19830-5	118015	3.39	305887	4.35	161107	5.74	281207	6.98	228028	9.70	452291	11.10
ZZZZZZ	149290	3.38	373278	4.35	191893	5.74	321577	6.98	253868	9.71	488295	11.10
ZZZZZZ	154483	3.38	400775	4.35	200798	5.74	341282	6.98	273701	9.70	522456	11.10
ZZZZZZ	153536	3.38	390417	4.35	196509	5.74	330680	6.98	266158	9.70	508299	11.10
ZZZZZZ	117941	3.38	306610	4.35	154974	5.74	267939	6.98	215440	9.70	419771	11.10
ZZZZZZ	149531	3.38	381789	4.35	187221	5.74	324216	6.98	261573	9.70	508438	11.10
ZZZZZZ	143159	3.38	369167	4.35	188794	5.74	324536	6.98	266545	9.70	512193	11.10
ZZZZZZ	145731	3.38	366875	4.35	185096	5.75	321624	6.98	259558	9.71	484912	11.11
ZZZZZZ	134443	3.38	343797	4.35	176369	5.74	304887	6.99	247309	9.71	463276	11.11
ZZZZZZ	123070	3.38	324319	4.35	167896	5.75	296471	6.99	242276	9.71	459046	11.11
OP32792-BS	149081	3.39	384658	4.35	204907	5.75	373501	6.99	279338	9.71	510384	11.10
OP32792-MS	135841	3.39	348883	4.35	182290	5.75	325164	6.99	233263	9.71	430582	11.10
OP32792-MSD	137585	3.39	359096	4.35	189668	5.75	338334	6.99	245099	9.71	450590	11.10
ZZZZZZ	155352	3.39	407260	4.35	209515	5.74	351696	6.98	255867	9.71	460473	11.10
MC19894-2	133003	3.39	349182	4.35	181484	5.74	315509	6.98	245558	9.71	444438	11.10

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU699-CC623	**Injection Date:**	04/25/13
Lab File ID:	U13779.D	**Injection Time:**	09:28
Instrument ID:	GCMSU	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	87447	2.84	316416	3.81	202550	5.19	388883	6.39	431404	9.05	418866	10.56
Upper Limit [a]	174894	3.34	632832	4.31	405100	5.69	777766	6.89	862808	9.55	837732	11.06
Lower Limit [b]	43724	2.34	158208	3.31	101275	4.69	194442	5.89	215702	8.55	209433	10.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32765-MB	98422	2.84	352349	3.80	225144	5.19	403782	6.38	494302	9.03	464395	10.56
OP32765-BS	97649	2.84	354227	3.80	224781	5.19	408645	6.38	484885	9.04	462038	10.56
ZZZZZZ	98168	2.84	362897	3.80	232522	5.19	409871	6.38	494732	9.03	472430	10.55
ZZZZZZ	99122	2.84	362682	3.80	226738	5.19	407477	6.38	500940	9.03	476745	10.55
ZZZZZZ	99410	2.84	365289	3.80	227012	5.19	401386	6.38	485487	9.03	470397	10.55
ZZZZZZ	97389	2.84	355767	3.80	228948	5.19	400530	6.38	477376	9.03	464145	10.55
ZZZZZZ	100351	2.84	366212	3.80	229862	5.19	410236	6.38	485077	9.03	457921	10.56
ZZZZZZ	98687	2.84	364097	3.80	232390	5.19	412725	6.38	490192	9.03	462319	10.55
ZZZZZZ	110124	2.84	395295	3.80	250448	5.19	441131	6.38	505278	9.03	460707	10.55
ZZZZZZ	103056	2.84	373131	3.80	241320	5.19	418266	6.38	480880	9.03	448309	10.56
ZZZZZZ	108561	2.84	397550	3.80	250739	5.19	437975	6.38	495908	9.03	454112	10.56
ZZZZZZ	104038	2.84	374194	3.80	238183	5.19	417238	6.38	482943	9.03	447449	10.56
ZZZZZZ	101489	2.84	367793	3.80	224166	5.19	391918	6.38	449112	9.03	424583	10.56
ZZZZZZ	107784	2.84	390738	3.80	242008	5.19	425082	6.38	486149	9.04	457994	10.56
ZZZZZZ	106618	2.84	390953	3.80	238329	5.19	422222	6.38	469954	9.04	451826	10.58
MC19830-4	99767	2.84	366378	3.80	231935	5.19	401841	6.38	470435	9.03	447798	10.56
MC19830-5	100736	2.84	367453	3.80	230095	5.19	415279	6.38	501349	9.03	462566	10.56
OP32793-MB	109140	2.84	394460	3.80	242650	5.19	422822	6.38	483744	9.03	458263	10.56
OP32793-BS	102459	2.84	359640	3.80	225698	5.19	400222	6.38	441498	9.04	421814	10.56
OP32793-MS	107163	2.84	375903	3.80	234111	5.19	412111	6.38	445767	9.04	435145	10.56
OP32793-MSD	106204	2.84	378162	3.80	240803	5.19	431377	6.38	472751	9.04	446907	10.56
MC20000-6	113599	2.84	420800	3.80	256000	5.19	444395	6.38	487984	9.03	457180	10.56
ZZZZZZ	109315	2.84	394501	3.80	241663	5.19	416974	6.38	468817	9.04	454591	10.56
ZZZZZZ	111729	2.84	406096	3.80	253785	5.19	438753	6.38	486669	9.04	473177	10.56
ZZZZZZ	107077	2.84	391603	3.80	241569	5.19	419171	6.38	472282	9.03	445876	10.56
ZZZZZZ	107584	2.84	399335	3.80	245447	5.19	423954	6.38	483479	9.03	466489	10.56

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSU699-CC623	**Injection Date:**	04/25/13
Lab File ID:	U13779.D	**Injection Time:**	09:28
Instrument ID:	GCMSU	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW528-CC505	**Injection Date:**	04/19/13
Lab File ID:	W11305.D	**Injection Time:**	08:08
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	118675	3.60	454103	4.58	306752	6.01	540627	7.29	695543	10.15	641220	11.72
Upper Limit [a]	237350	4.10	908206	5.08	613504	6.51	1081254	7.79	1391086	10.65	1282440	12.22
Lower Limit [b]	59338	3.10	227052	4.08	153376	5.51	270314	6.79	347772	9.65	320610	11.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32678-MB	101415	3.59	389149	4.58	257625	6.00	471897	7.28	568474	10.14	554717	11.71
OP32678-BS	104425	3.59	392575	4.58	261156	6.00	462576	7.28	563044	10.14	549110	11.71
OP32678-MS	104803	3.59	399200	4.58	267163	6.00	470392	7.28	572487	10.14	559168	11.72
OP32678-MSD	100054	3.59	380220	4.58	254279	6.00	451262	7.28	555686	10.14	541883	11.72
MC19700-23	102037	3.59	383484	4.58	257244	6.00	463276	7.27	568024	10.14	543704	11.72
ZZZZZZ	100526	3.59	386824	4.58	251128	6.00	466239	7.28	547319	10.14	535753	11.71
OP32692-MB	93072	3.59	358558	4.58	237521	6.00	439162	7.27	529447	10.14	506368	11.71
MC19830-8	96248	3.59	368979	4.58	246750	6.00	445318	7.27	533934	10.14	520052	11.71

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW549-CC505	**Injection Date:**	05/06/13
Lab File ID:	W11893.D	**Injection Time:**	18:11
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	103230	3.35	383650	4.39	245943	5.90	441313	7.19	559878	10.03	504260	11.58
Upper Limit [a]	206460	3.85	767300	4.89	491886	6.40	882626	7.69	1119756	10.53	1008520	12.08
Lower Limit [b]	51615	2.85	191825	3.89	122972	5.40	220657	6.69	279939	9.53	252130	11.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	104589	3.35	383947	4.39	243379	5.90	427160	7.18	476875	10.01	484235	11.58
ZZZZZZ	102926	3.35	381296	4.39	247971	5.90	431431	7.19	509111	10.02	491563	11.58
ZZZZZZ	103659	3.35	382615	4.39	247968	5.90	435728	7.19	510387	10.02	498052	11.58
OP32979-MB	117546	3.35	425625	4.39	273701	5.90	462473	7.19	504985	10.01	455681	11.58
OP32979-MB	117546	3.35	426499	4.39	273785	5.90	470075	7.19	507101	10.01	457282	11.58
OP32964-MB	117546	3.35	426499	4.39	273785	5.90	470075	7.19	507101	10.01	457282	11.58
OP32964-BS	117862	3.35	431047	4.39	272518	5.90	457833	7.19	508816	10.02	436042	11.58
OP32979-BS	117862	3.35	431047	4.39	272518	5.90	457833	7.19	508816	10.02	436042	11.58
OP32964-MS	105725	3.35	392800	4.39	249734	5.90	432255	7.19	487722	10.01	492503	11.58
OP32964-MSD	105185	3.35	393916	4.39	247027	5.90	428821	7.19	468945	10.02	481250	11.58
JB35277-22	101725	3.35	378828	4.39	245419	5.90	438817	7.19	495509	10.02	493228	11.58
OP32947-MB	106966	3.35	383165	4.39	238197	5.90	406699	7.19	433427	10.01	426393	11.58
OP32947-BS	115710	3.35	423600	4.39	260551	5.90	445293	7.19	501120	10.02	451705	11.58
OP32947-MS	104118	3.35	382548	4.39	244999	5.90	418415	7.19	494513	10.02	479317	11.58
OP32947-MSD	105332	3.35	386338	4.39	245393	5.90	421787	7.19	484286	10.02	470867	11.58
MC20335-1	104409	3.35	374064	4.39	238748	5.90	407141	7.19	462766	10.02	458932	11.58
ZZZZZZ	109740	3.35	397767	4.39	251654	5.90	426990	7.19	451115	10.02	431619	11.58
ZZZZZZ	117700	3.35	420853	4.39	270396	5.90	462609	7.19	493859	10.02	452014	11.58
ZZZZZZ	117997	3.35	427560	4.39	277145	5.90	465568	7.19	478675	10.01	444553	11.58
ZZZZZZ	121206	3.35	434426	4.39	272583	5.90	462756	7.19	476549	10.02	438730	11.58
ZZZZZZ	120673	3.35	438135	4.39	266468	5.90	452487	7.19	473741	10.01	437333	11.58
OP32692-BS	106678	3.35	397109	4.39	253978	5.90	432227	7.19	497026	10.02	473818	11.58
OP32692-MS	104655	3.35	393819	4.39	250403	5.90	426318	7.19	491650	10.02	464850	11.58
OP32692-MSD	109175	3.35	411639	4.39	265614	5.90	460079	7.19	532038	10.02	493652	11.58
MC19686-6	93502	3.35	345463	4.39	224551	5.90	396064	7.19	446716	10.01	428448	11.58
ZZZZZZ	97715	3.35	360343	4.39	234097	5.90	414977	7.19	479634	10.02	456403	11.58
ZZZZZZ	94060	3.35	347534	4.39	225115	5.90	396105	7.19	446758	10.01	420079	11.58
ZZZZZZ	90161	3.35	337227	4.39	216112	5.90	391189	7.19	455272	10.01	432321	11.58
ZZZZZZ	92091	3.35	340944	4.39	217409	5.90	389484	7.19	439960	10.01	415530	11.58

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW549-CC505	**Injection Date:**	05/06/13
Lab File ID:	W11893.D	**Injection Time:**	18:11
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW550-CC546	**Injection Date:**	05/06/13
Lab File ID:	W11893A.D	**Injection Time:**	18:11
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	103246	3.35	383631	4.39	245938	5.90	444686	7.19	559271	10.03	501160	11.58
Upper Limit [a]	206492	3.85	767262	4.89	491876	6.40	889372	7.69	1118542	10.53	1002320	12.08
Lower Limit [b]	51623	2.85	191816	3.89	122969	5.40	222343	6.69	279636	9.53	250580	11.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	104589	3.35	383947	4.39	243379	5.90	427160	7.18	476875	10.01	484235	11.58
ZZZZZZ	102926	3.35	381296	4.39	247971	5.90	431431	7.19	509111	10.02	491563	11.58
ZZZZZZ	103659	3.35	382615	4.39	247968	5.90	435728	7.19	510387	10.02	498052	11.58
OP32979-MB	117546	3.35	425625	4.39	273701	5.90	462473	7.19	504985	10.01	455681	11.58
OP32979-MB	117546	3.35	426499	4.39	273785	5.90	470075	7.19	507101	10.01	457282	11.58
OP32964-MB	117546	3.35	426499	4.39	273785	5.90	470075	7.19	507101	10.01	457282	11.58
OP32964-BS	117862	3.35	431047	4.39	272518	5.90	457833	7.19	508816	10.02	436042	11.58
OP32979-BS	117862	3.35	431047	4.39	272518	5.90	457833	7.19	508816	10.02	436042	11.58
OP32964-MS	105725	3.35	392800	4.39	249734	5.90	432255	7.19	487722	10.01	492503	11.58
OP32964-MSD	105185	3.35	393916	4.39	247027	5.90	428821	7.19	468945	10.02	481250	11.58
JB35277-22	101725	3.35	378828	4.39	245419	5.90	438817	7.19	495509	10.02	493228	11.58
OP32947-MB	106966	3.35	383165	4.39	238197	5.90	406699	7.19	433427	10.01	426393	11.58
OP32947-BS	115710	3.35	423600	4.39	260551	5.90	445293	7.19	501120	10.02	451705	11.58
OP32947-MS	104118	3.35	382548	4.39	244999	5.90	418415	7.19	494513	10.02	479317	11.58
OP32947-MSD	105332	3.35	386338	4.39	245393	5.90	421787	7.19	484286	10.02	470867	11.58
MC20335-1	104409	3.35	374064	4.39	238748	5.90	407141	7.19	462766	10.02	458932	11.58
ZZZZZZ	109740	3.35	397767	4.39	251654	5.90	426990	7.19	451115	10.02	431619	11.58
ZZZZZZ	117700	3.35	420853	4.39	270396	5.90	462609	7.19	493859	10.02	452014	11.58
ZZZZZZ	117997	3.35	427560	4.39	277145	5.90	465568	7.19	478675	10.01	444553	11.58
ZZZZZZ	121206	3.35	434426	4.39	272583	5.90	462756	7.19	476549	10.02	438730	11.58
ZZZZZZ	120673	3.35	438135	4.39	266468	5.90	452487	7.19	473741	10.01	437333	11.58
OP32692-BS	106678	3.35	397109	4.39	253978	5.90	432227	7.19	497026	10.02	473818	11.58
OP32692-MS	104655	3.35	393819	4.39	250403	5.90	426318	7.19	491650	10.02	464850	11.58
OP32692-MSD	109175	3.35	411639	4.39	265614	5.90	460079	7.19	532038	10.02	493652	11.58
MC19686-6	93502	3.35	345463	4.39	224551	5.90	396064	7.19	446716	10.01	428448	11.58
ZZZZZZ	97715	3.35	360343	4.39	234097	5.90	414977	7.19	479634	10.02	456403	11.58
ZZZZZZ	94060	3.35	347534	4.39	225115	5.90	396105	7.19	446758	10.01	420079	11.58
ZZZZZZ	90161	3.35	337227	4.39	216112	5.90	391189	7.19	455272	10.01	432321	11.58
ZZZZZZ	92091	3.35	340944	4.39	217409	5.90	389484	7.19	439960	10.01	415530	11.58

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW550-CC546	**Injection Date:**	05/06/13
Lab File ID:	W11893A.D	**Injection Time:**	18:11
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19830-1	F63196.D	50	43	96	86	73	50
MC19830-2	F63197.D	47	31	96	86	84	90
MC19830-3	F63201.D	51	34	100	93	81	85
MC19830-4	U13795.D	47	37	85	73	72	65
MC19830-4	F63202.D	44	45	105	94	85	72
MC19830-5	U13796.D	42	31	74	69	71	53
MC19830-5	F63203.D	40	42	102	96	89	69
MC19830-8	W11318.D	23	18	77	72	68	84
OP32681-BS	F63171.D	56	38	97	93	90	90
OP32681-MB	F63170.D	53	34	97	92	88	89
OP32681-MS	F63172.D	52	35	95	93	91	91
OP32681-MSD	F63173.D	53	35	95	95	92	93
OP32692-BS	W11912.D	61	23	85	30	64	92
OP32692-MB	W11313.D	54	40	121	53	45	98
OP32692-MS	W11913.D	71	32	84	33	69	59
OP32692-MSD	W11914.D	70	28	81	34	72	77

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19830-1	I82746.D	71	66	51
MC19830-2	I82747.D	73	73	84
MC19830-3	I82748.D	73	72	82
MC19830-4	I82831.D	73	73	67
MC19830-5	I82832.D	73	74	66
MC19830-8	I82725.D	62	61	69
OP32682-BS	I82728.D	80	76	81
OP32682-MB	I82727.D	81	78	80
OP32682-MS	I82729.D	80	77	80
OP32682-MSD	I82730.D	79	76	82
OP32693-BS	I82721.D	56	54	79
OP32693-MB	I82720.D	47	40	76
OP32693-MS	I82722.D	62	59	53
OP32693-MSD	I82723.D	62	61	69

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-MB	BK23674.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5, MC19830-7, MC19830-8

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	97%	36-173%
460-00-4	Bromofluorobenzene (S)	102%	36-173%

Blank Spike Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-BS	BK23675.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5, MC19830-7, MC19830-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.064	90	60-140
106-93-4	1,2-Dibromoethane	0.071	0.078	110	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	101%	36-173%
460-00-4	Bromofluorobenzene (S)	102%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-MS	BK23676.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
OP32697-MSD	BK23677.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
MC19800-11	BK23678.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19830-1, MC19830-2, MC19830-3, MC19830-4, MC19830-5, MC19830-7, MC19830-8

CAS No.	Compound	MC19800-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.067	94	0.071	0.069	97	3	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.077	108	0.071	0.067	94	14	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-11	Limits
460-00-4	Bromofluorobenzene (S)	97%	95%	94%	36-173%
460-00-4	Bromofluorobenzene (S)	101%	102%	100%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19830-1	BK23679.D	103	102
MC19830-2	BK23680.D	96	101
MC19830-3	BK23681.D	119	115
MC19830-4	BK23682.D	129	113
MC19830-5	BK23683.D	146	127
MC19830-7	BK23685.D	92	98
MC19830-8	BK23686.D	114	113
OP32697-BS	BK23675.D	101	102
OP32697-MB	BK23674.D	97	102
OP32697-MS	BK23676.D	97	101
OP32697-MSD	BK23677.D	95	102

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-ICC833	**Injection Date:**	04/18/13
Lab File ID:	BK23669.D	**Injection Time:**	13:39
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23672A.D	04/18/13	14:51	4.45	4.89
OP32697-MB	BK23674.D	04/18/13	15:40	4.45	4.89
OP32697-BS	BK23675.D	04/18/13	16:04	4.45	4.89
OP32697-MS	BK23676.D	04/18/13	16:29	4.45	4.89
OP32697-MSD	BK23677.D	04/18/13	16:52	4.45	4.89
MC19800-11	BK23678.D	04/18/13	17:16	4.45	4.89
MC19830-1	BK23679.D	04/18/13	17:40	4.45	4.88
MC19830-2	BK23680.D	04/18/13	18:04	4.45	4.89
MC19830-3	BK23681.D	04/18/13	18:28	4.45	4.88
MC19830-4	BK23682.D	04/18/13	18:51	4.45	4.88
MC19830-5	BK23683.D	04/18/13	19:15	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19830
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/18/13
Lab File ID:	BK23684.D	**Injection Time:**	19:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC19830-7	BK23685.D	04/18/13	20:02	4.45	4.89
MC19830-8	BK23686.D	04/18/13	20:25	4.45	4.88
ZZZZZZ	BK23687.D	04/18/13	20:48	4.45	4.88
ZZZZZZ	BK23688.D	04/18/13	21:12	4.45	4.88
ZZZZZZ	BK23689.D	04/18/13	21:36	4.45	4.88
ZZZZZZ	BK23690.D	04/18/13	22:01	4.45	4.89
OP32696-MB	BK23691.D	04/18/13	22:25	4.45	4.89
OP32696-BS	BK23692.D	04/18/13	22:49	4.45	4.89
OP32696-MS	BK23693.D	04/18/13	23:13	4.45	4.89
OP32696-MSD	BK23694.D	04/18/13	23:38	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,



SGS Accutest Job Number: MC19877

Sampling Date: 04/15/13

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 77

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 1, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC19877

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC19877

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC19877-1	04/15/13	11:05	MMLR	04/16/13	AQ	Ground Water	P55-ROX-041513
MC19877-2	04/15/13	13:04	MMLR	04/16/13	AQ	Ground Water	T12-ROX-041513
MC19877-3	04/15/13	14:20	MMLR	04/16/13	AQ	Ground Water	P114-ROX-041513
MC19877-4	04/15/13	00:00	MMLR	04/16/13	AQ	Trip Blank Water	TB-ROX-041513-HCL
MC19877-5	04/15/13	00:00	MMLR	04/16/13	AQ	Trip Blank Water	TB-ROX-041513-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC 9877

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** / /20 6 2:27:36 P

3 Samp e(s), 2 Tr p B ank(s) were co ected on 04/ 5/20 3 and were rece ved at SGS Accutest New Eng and on 04/ 6/20 3 proper y preserved, at 8 Deg C and ntact These Samp es rece ved a job number of MC 9877 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the bra y search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSV709

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9877-3MS, MC 9877-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Dup c ate Recovery(s) for 2-Butanone (MEK), Acetone, Naphtha ene are outs de contro m ts
- B ank Sp ke Recovery(s) for 2-Butanone (MEK), Acetone are outs de contro m ts
- MC 9877-3MS/MSD Recovery(s) for 2-Ch oroethy v ny ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC 9877-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MSV709-BS/BSD for 2-Hexanone: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Acetone: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh or non-detect for th s compound

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP32725

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9900-3MS, MC 9900-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts
- Matr x Sp ke Dup cate Recove y(s) for D methy phtha ate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for D methy phtha ate are outs de contro m ts for samp e OP32725-MSD Outs de contro m ts due to poss b e matr x nterference
- OP32725-MS/MSD for 3,3'-D ch orobenz d ne: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32726

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC20000-2MS, MC20000-2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Cont nu ng ca brat on check standard MSI3082-CC3044 for Benzo[k]f uoranthene, Benzo[g,h,]pery ene exceed 30% D fference (resu ts b ased h gh) Assoc ated samp es are non-detect for these compounds

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP32697

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC 9800- MS, MC 9800- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC 9877)

Summary of Hits

Job Number: MC19877
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC19877-1	P55-ROX-041513					
Benzene		434	1.0	0.90	ug/l	SW846 8260B
n-Butylbenzene		5.2 J	10	1.1	ug/l	SW846 8260B
sec-Butylbenzene		19.6	10	1.2	ug/l	SW846 8260B
Ethylbenzene		350	2.0	0.75	ug/l	SW846 8260B
Isopropylbenzene		68.0	10	1.3	ug/l	SW846 8260B
Naphthalene		97.4	10	1.6	ug/l	SW846 8260B
n-Propylbenzene		148	10	1.2	ug/l	SW846 8260B
Toluene		143	2.0	0.92	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		24.1	10	0.93	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		22.9	10	2.2	ug/l	SW846 8260B
m,p-Xylene		235	2.0	1.4	ug/l	SW846 8260B
o-Xylene		362	2.0	0.82	ug/l	SW846 8260B
Xylene (total)		597	2.0	0.82	ug/l	SW846 8260B
Total TIC, Volatile		2700 J			ug/l	
Dibenzofuran		1.7 J	2.1	0.16	ug/l	SW846 8270C
Acenaphthene		0.73	0.10	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.21	0.10	0.014	ug/l	SW846 8270C BY SIM
Fluorene		1.3	0.10	0.048	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		26.8	0.21	0.14	ug/l	SW846 8270C BY SIM
2-Methylnaphthalene		38.9	0.21	0.054	ug/l	SW846 8270C BY SIM
Phenanthrene		2.1	0.052	0.013	ug/l	SW846 8270C BY SIM
MC19877-2	T12-ROX-041513					
Benzene		1610	5.0	2.4	ug/l	SW846 8260B
sec-Butylbenzene		59.5	50	5.5	ug/l	SW846 8260B
Ethylbenzene		1030	10	5.1	ug/l	SW846 8260B
Isopropylbenzene		40.5 J	50	5.0	ug/l	SW846 8260B
Naphthalene		266	50	5.0	ug/l	SW846 8260B
n-Propylbenzene		76.0	50	5.8	ug/l	SW846 8260B
Toluene		592	10	5.1	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		309	50	3.5	ug/l	SW846 8260B
m,p-Xylene		1200	10	7.3	ug/l	SW846 8260B
o-Xylene		104	10	5.8	ug/l	SW846 8260B
Xylene (total)		1300	10	5.8	ug/l	SW846 8260B
2-Methylphenol		4.7 J	10	1.3	ug/l	SW846 8270C
3&4-Methylphenol		4.2 J	10	2.1	ug/l	SW846 8270C
Phenol		14.9	5.1	0.52	ug/l	SW846 8270C
Dibenzofuran		0.48 J	2.0	0.16	ug/l	SW846 8270C
Acenaphthene		0.63	0.10	0.014	ug/l	SW846 8270C BY SIM
Acenaphthylene		0.090 J	0.10	0.014	ug/l	SW846 8270C BY SIM
Fluorene		0.37	0.10	0.047	ug/l	SW846 8270C BY SIM
1-Methylnaphthalene		28.9	0.20	0.14	ug/l	SW846 8270C BY SIM

Summary of Hits

Job Number: MC19877
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 04/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2-Methylnaphthalene		44.4	0.20	0.053	ug/l	SW846 8270C BY SIM
Phenanthrene		1.1	0.051	0.013	ug/l	SW846 8270C BY SIM
Pyrene		0.063 J	0.10	0.036	ug/l	SW846 8270C BY SIM
MC19877-3	**P114-ROX-041513**					
Acetone [a]		5.9 J	10	3.0	ug/l	SW846 8260B
Methyl Tert Butyl Ether		5.1	1.0	0.41	ug/l	SW846 8260B
Di-n-butyl phthalate		0.47 J	5.2	0.40	ug/l	SW846 8270C
bis(2-Ethylhexyl)phthalate		2.3	2.1	0.50	ug/l	SW846 8270C
MC19877-4	**TB-ROX-041513-HCL**					
No hits reported in this sample.						
MC19877-5	**TB-ROX-041513-ST**					
No hits reported in this sample.						

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17975.D	2	04/24/13	AMY	n/a	n/a	MSV709
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	5.6	ug/l	
107-02-8	Acrolein [a]	ND	50	13	ug/l	
107-13-1	Acrylonitrile	ND	10	7.0	ug/l	
71-43-2	Benzene	434	1.0	0.90	ug/l	
108-86-1	Bromobenzene	ND	10	0.87	ug/l	
74-97-5	Bromochloromethane	ND	10	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.66	ug/l	
75-25-2	Bromoform	ND	2.0	0.84	ug/l	
74-83-9	Bromomethane	ND	4.0	3.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	5.2	10	1.1	ug/l	J
135-98-8	sec-Butylbenzene	19.6	10	1.2	ug/l	
98-06-6	tert-Butylbenzene	ND	10	1.7	ug/l	
75-15-0	Carbon disulfide	ND	10	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.97	ug/l	
75-00-3	Chloroethane	ND	4.0	1.7	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	2.3	ug/l	
67-66-3	Chloroform	ND	2.0	1.0	ug/l	
74-87-3	Chloromethane	ND	4.0	2.9	ug/l	
95-49-8	o-Chlorotoluene	ND	10	1.1	ug/l	
106-43-4	p-Chlorotoluene	ND	10	0.95	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.66	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.69	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.53	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	2.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.74	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.71	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.3	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.1	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.0	0.91	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	1.9	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.57	ug/l	
123-91-1	1,4-Dioxane	ND	50	31	ug/l	
97-63-2	Ethyl methacrylate	ND	10	1.6	ug/l	
100-41-4	Ethylbenzene	350	2.0	0.75	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
591-78-6	2-Hexanone	ND	10	4.5	ug/l	
98-82-8	Isopropylbenzene	68.0	10	1.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.86	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.6	ug/l	
74-95-3	Methylene bromide	ND	10	0.86	ug/l	
75-09-2	Methylene chloride	ND	4.0	0.81	ug/l	
91-20-3	Naphthalene	97.4	10	1.6	ug/l	
103-65-1	n-Propylbenzene	148	10	1.2	ug/l	
100-42-5	Styrene	ND	10	0.98	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.91	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.84	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	1.2	ug/l	
108-88-3	Toluene	143	2.0	0.92	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	0.91	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.9	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.99	ug/l	
79-01-6	Trichloroethene	ND	2.0	0.90	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	1.2	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.4	ug/l	
95-63-6	1,2,4-Trimethylbenzene	24.1	10	0.93	ug/l	
108-67-8	1,3,5-Trimethylbenzene	22.9	10	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.6	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.2	ug/l	
	m,p-Xylene	235	2.0	1.4	ug/l	
95-47-6	o-Xylene	362	2.0	0.82	ug/l	
1330-20-7	Xylene (total)	597	2.0	0.82	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
106-97-8	Butane	1.80	1400	ug/l	JN
78-78-4	Butane, 2-methyl-	2.21	1300	ug/l	JN
	Total TIC, Volatile		2700	ug/l	J

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63269.D	1	04/23/13	KR	04/19/13	OP32725	MSF2955
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	1.7	2.1	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.2	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	95%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%
1718-51-0	Terphenyl-d14	65%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82901.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.73	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	0.21	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	1.3	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	26.8	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	38.9	0.21	0.054	ug/l	
85-01-8	Phenanthrene	2.1	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	66%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P55-ROX-041513		
Lab Sample ID:	MC19877-1	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23687.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		36-173%
460-00-4	Bromofluorobenzene (S)	119%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17976.D	10	04/24/13	AMY	n/a	n/a	MSV709
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	30	ug/l	
107-02-8	Acrolein [a]	ND	250	100	ug/l	
107-13-1	Acrylonitrile	ND	50	32	ug/l	
71-43-2	Benzene	1610	5.0	2.4	ug/l	
108-86-1	Bromobenzene	ND	50	6.2	ug/l	
74-97-5	Bromochloromethane	ND	50	12	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.8	ug/l	
75-25-2	Bromoform	ND	10	7.8	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	24	ug/l	
104-51-8	n-Butylbenzene	ND	50	6.1	ug/l	
135-98-8	sec-Butylbenzene	59.5	50	5.5	ug/l	
98-06-6	tert-Butylbenzene	ND	50	6.4	ug/l	
75-15-0	Carbon disulfide	ND	50	6.1	ug/l	
56-23-5	Carbon tetrachloride	ND	10	8.7	ug/l	
108-90-7	Chlorobenzene	ND	10	4.7	ug/l	
75-00-3	Chloroethane	ND	20	5.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	13	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	20	7.3	ug/l	
95-49-8	o-Chlorotoluene	ND	50	6.5	ug/l	
106-43-4	p-Chlorotoluene	ND	50	4.8	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	9.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	4.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	6.4	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	17	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	6.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	4.1	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	6.4	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	9.5	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	20	7.2	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	6.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	16	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	9.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	4.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/l	
123-91-1	1,4-Dioxane	ND	250	150	ug/l	
97-63-2	Ethyl methacrylate	ND	50	8.1	ug/l	
100-41-4	Ethylbenzene	1030	10	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	21	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	40.5	50	5.0	ug/l	J
99-87-6	p-Isopropyltoluene	ND	50	5.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	4.1	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	29	ug/l	
74-95-3	Methylene bromide	ND	50	11	ug/l	
75-09-2	Methylene chloride	ND	20	8.3	ug/l	
91-20-3	Naphthalene	266	50	5.0	ug/l	
103-65-1	n-Propylbenzene	76.0	50	5.8	ug/l	
100-42-5	Styrene	ND	50	4.5	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	5.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	4.2	ug/l	
108-88-3	Toluene	592	10	5.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	8.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	7.8	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.9	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	8.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	309	50	3.5	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	4.7	ug/l	
108-05-4	Vinyl Acetate	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	10	6.3	ug/l	
	m,p-Xylene	1200	10	7.3	ug/l	
95-47-6	o-Xylene	104	10	5.8	ug/l	
1330-20-7	Xylene (total)	1300	10	5.8	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63270.D	1	04/23/13	KR	04/19/13	OP32725	MSF2955
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	4.7	10	1.3	ug/l	J
	3&4-Methylphenol	4.2	10	2.1	ug/l	J
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	14.9	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
132-64-9	Dibenzofuran	0.48	2.0	0.16	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.1	0.40	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	40%		15-110%
118-79-6	2,4,6-Tribromophenol	97%		15-110%
4165-60-0	Nitrobenzene-d5	92%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	49%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82902.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.63	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	0.090	0.10	0.014	ug/l	J
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.074	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	0.37	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	28.9	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	44.4	0.20	0.053	ug/l	
85-01-8	Phenanthrene	1.1	0.051	0.013	ug/l	
129-00-0	Pyrene	0.063	0.10	0.036	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	49%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-041513		
Lab Sample ID:	MC19877-2	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23688.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.8 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	140%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	5.9	10	3.0	ug/l	J
107-02-8	Acrolein [b]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.1	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F63271.D	1	04/23/13	KR	04/19/13	OP32725	MSF2955
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.14	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.47	5.2	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.3	2.1	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	87%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	48%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I82903.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	47%		30-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-041513		
Lab Sample ID:	MC19877-3	**Date Sampled:**	04/15/13
Matrix:	AQ - Ground Water	**Date Received:**	04/16/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23689.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	95%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041513-HCL		
Lab Sample ID:	MC19877-4	**Date Sampled:**	04/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V17973.D	1	04/24/13	AMY	n/a	n/a	MSV709
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein [a]	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041513-HCL		
Lab Sample ID:	MC19877-4	**Date Sampled:**	04/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041513-HCL		
Lab Sample ID:	MC19877-4	**Date Sampled:**	04/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/16/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-041513-ST		
Lab Sample ID:	MC19877-5	**Date Sampled:**	04/15/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/16/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK23690.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
Run #2							

	Initial Volume	Final Volume
Run #1	34.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	121%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

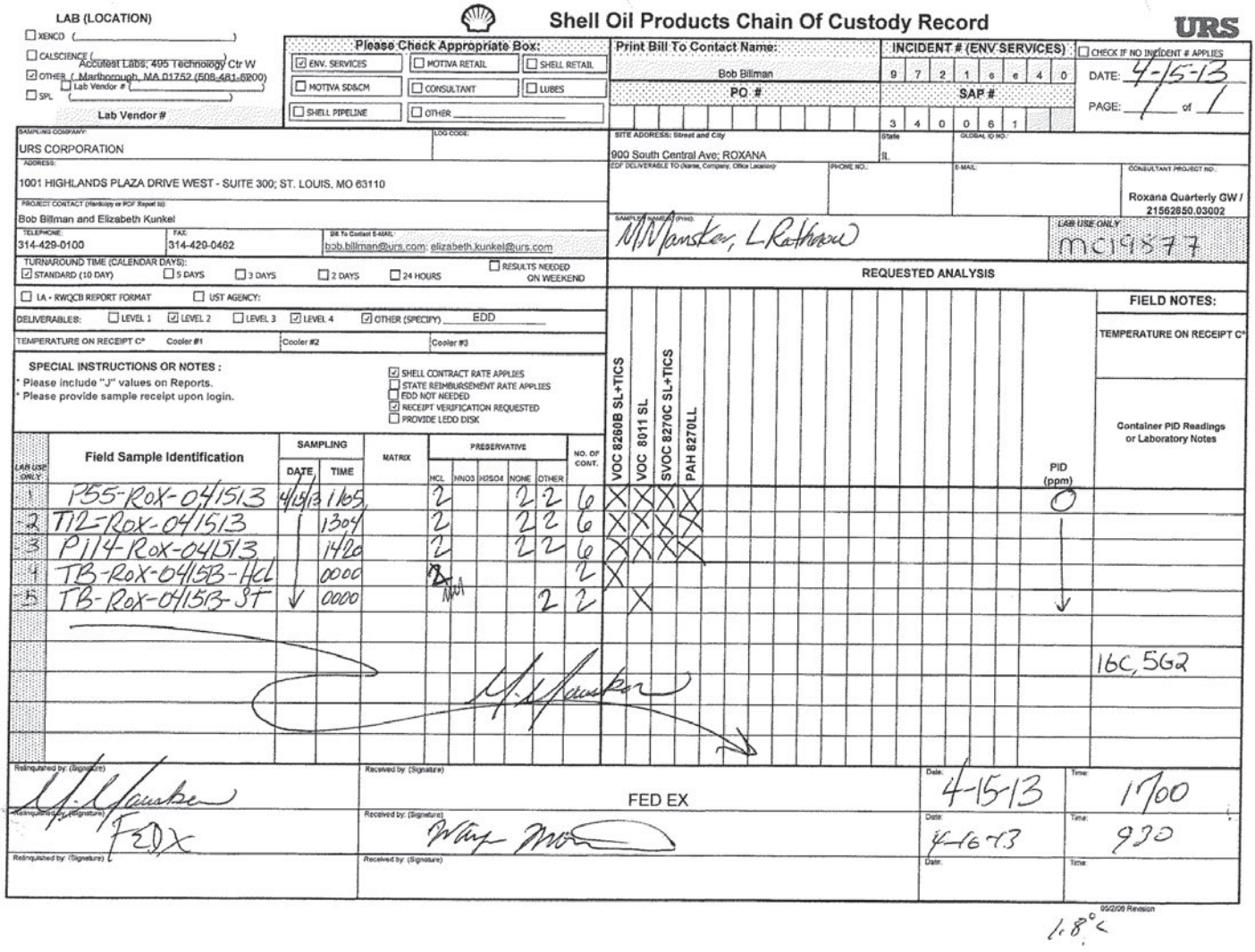
Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Shell Oil Products Chain Of Custody Record

URS



LAB (LOCATION)
- ☐ XENCO ( )
- ☐ CALSCIENCE ( )
- ☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
- ☐ SPL ( ) Lab Vendor #

Lab Vendor #

Please Check Appropriate Box:
- ☑ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 4-15-13

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002

PROJECT CONTACT (Hardcopy or PDF Report to): Bob Billman and Elizabeth Kunkel

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com

SAMPLER NAME(S) (Print): M Mansker, L Rathrow

LAB USE ONLY: MC19877

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (10 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- * Please include "J" values on Reports.
- * Please provide sample receipt upon login.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
1	P55-ROX-041513	4/15/13	1105		2			2	2	6	X	X	X	X	0	
2	T12-ROX-041513	↓	1304		2			2	2	6	X	X	X	X	↓	
3	P114-ROX-041513	↓	1420		2			2	2	6	X	X	X	X	↓	
4	TB-ROX-0415B-HCL	↓	0000		2					2	X				↓	
5	TB-ROX-0415B-ST	↓	0000						2	2		X			↓	
																16C, 5G2

M. Mansker

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
M. Mansker	FED EX	4-15-13	1700
FEDX	Wayne Mo[illegible]	4-16-13	930

95/2/06 Revision

1.8°C

MC19877: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC19877 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 4/16/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

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MC19877: Chain of Custody
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Internal Sample Tracking Chronicle

Shell Oil

Job No: MC19877

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC19877-1 Collected: 15-APR-13 11:05 By: MMLR Received: 16-APR-13 By: P55-ROX-041513						
MC19877-1	SW846 8011	18-APR-13 20:48	NK	17-APR-13	BJ	V8011SL
MC19877-1	SW846 8270C	23-APR-13 08:49	KR	19-APR-13	CA	AB8270SL+
MC19877-1	SW846 8260B	24-APR-13 16:15	AMY			V8260SL+
MC19877-1	SW846 8270C BY SIM	30-APR-13 10:04	NS	19-APR-13	BJ	B8270SIMSL
MC19877-2 Collected: 15-APR-13 13:04 By: MMLR Received: 16-APR-13 By: T12-ROX-041513						
MC19877-2	SW846 8011	18-APR-13 21:12	NK	17-APR-13	BJ	V8011SL
MC19877-2	SW846 8270C	23-APR-13 09:13	KR	19-APR-13	CA	AB8270SL+
MC19877-2	SW846 8260B	24-APR-13 16:42	AMY			V8260SL+
MC19877-2	SW846 8270C BY SIM	30-APR-13 10:27	NS	19-APR-13	BJ	B8270SIMSL
MC19877-3 Collected: 15-APR-13 14:20 By: MMLR Received: 16-APR-13 By: P114-ROX-041513						
MC19877-3	SW846 8011	18-APR-13 21:36	NK	17-APR-13	BJ	V8011SL
MC19877-3	SW846 8270C	23-APR-13 09:36	KR	19-APR-13	CA	AB8270SL+
MC19877-3	SW846 8260B	24-APR-13 15:49	AMY			V8260SL+
MC19877-3	SW846 8270C BY SIM	30-APR-13 10:50	NS	19-APR-13	BJ	B8270SIMSL
MC19877-4 Collected: 15-APR-13 00:00 By: MMLR Received: 16-APR-13 By: TB-ROX-041513-HCL						
MC19877-4	SW846 8260B	24-APR-13 15:22	AMY			V8260SL+
MC19877-5 Collected: 15-APR-13 00:00 By: MMLR Received: 16-APR-13 By: TB-ROX-041513-ST						
MC19877-5	SW846 8011	18-APR-13 22:01	NK	17-APR-13	BJ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/16/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19877-1.1	Walk In Ref #22	Michael Rolo	04/19/13 07:13	Retrieve from Storage
MC19877-1.1	Michael Rolo		04/22/13 07:34	Depleted
MC19877-1.4	VOC Ref #5	Amy Min Yang	04/24/13 14:00	Retrieve from Storage
MC19877-1.4	Amy Min Yang	GCMSV	04/24/13 14:00	Load on Instrument
MC19877-1.4	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19877-1.4	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19877-1.4	Scott Parsick		07/24/13 13:54	Disposed
MC19877-1.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19877-1.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19877-2.2	Walk In Ref #22	Michael Rolo	04/19/13 07:13	Retrieve from Storage
MC19877-2.2	Michael Rolo		04/22/13 07:34	Depleted
MC19877-2.3	VOC Ref #5	Amy Min Yang	04/24/13 14:00	Retrieve from Storage
MC19877-2.3	Amy Min Yang	GCMSV	04/24/13 14:00	Load on Instrument
MC19877-2.3	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19877-2.3	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19877-2.3	Scott Parsick		07/24/13 13:54	Disposed
MC19877-2.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19877-2.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19877-3.1	Walk In Ref #22	Michael Rolo	04/19/13 07:13	Retrieve from Storage
MC19877-3.1	Michael Rolo		04/22/13 07:34	Depleted
MC19877-3.3	VOC Ref #5	Amy Min Yang	04/24/13 16:19	Retrieve from Storage
MC19877-3.3	Amy Min Yang	GCMSV	04/24/13 16:19	Load on Instrument
MC19877-3.3	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19877-3.3	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19877-3.3	Scott Parsick		07/24/13 13:54	Disposed
MC19877-3.4	VOC Ref #5	Amy Min Yang	04/24/13 14:00	Retrieve from Storage
MC19877-3.4	Amy Min Yang	GCMSV	04/24/13 14:00	Load on Instrument
MC19877-3.4	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19877-3.4	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19877-3.4	Scott Parsick		07/24/13 13:54	Disposed
MC19877-3.6	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19877-3.6	Bijan Jafari		04/20/13 08:36	Depleted
MC19877-4.1	VOC Ref #5	Amy Min Yang	04/24/13 14:00	Retrieve from Storage
MC19877-4.1	Amy Min Yang	GCMSV	04/24/13 14:00	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 04/16/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC19877-4.1	GCMSV	Amy Min Yang	04/25/13 15:30	Unload from Instrument
MC19877-4.1	Amy Min Yang	VOC Ref #5	04/25/13 15:30	Return to Storage
MC19877-4.1	Scott Parsick		07/24/13 13:54	Disposed
MC19877-5.1	VOC Ref #5	Bijan Jafari	04/17/13 16:49	Retrieve from Storage
MC19877-5.1	Bijan Jafari		04/20/13 08:36	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-MB	V17972.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	84%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: Method: SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	93.6	187* [a]	89.1	178* [a]	5	70-130/25
107-02-8	Acrolein	250	200	80	177	71	12	70-130/25
107-13-1	Acrylonitrile	50	54.5	109	52.5	105	4	70-130/25
71-43-2	Benzene	50	50.3	101	48.7	97	3	70-130/25
108-86-1	Bromobenzene	50	54.6	109	54.1	108	1	70-130/25
74-97-5	Bromochloromethane	50	52.3	105	51.4	103	2	70-130/25
75-27-4	Bromodichloromethane	50	50.0	100	48.7	97	3	70-130/25
75-25-2	Bromoform	50	49.5	99	48.8	98	1	70-130/25
74-83-9	Bromomethane	50	53.7	107	51.3	103	5	70-130/25
78-93-3	2-Butanone (MEK)	50	76.2	152* [a]	75.8	152* [a]	1	70-130/25
104-51-8	n-Butylbenzene	50	49.8	100	48.9	98	2	70-130/25
135-98-8	sec-Butylbenzene	50	46.8	94	46.2	92	1	70-130/25
98-06-6	tert-Butylbenzene	50	52.2	104	51.6	103	1	70-130/25
75-15-0	Carbon disulfide	50	44.4	89	42.8	86	4	70-130/25
56-23-5	Carbon tetrachloride	50	48.8	98	47.1	94	4	70-130/25
108-90-7	Chlorobenzene	50	50.7	101	49.6	99	2	70-130/25
75-00-3	Chloroethane	50	56.6	113	52.8	106	7	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	51.7	103	50.7	101	2	70-130/25
67-66-3	Chloroform	50	50.6	101	49.3	99	3	70-130/25
74-87-3	Chloromethane	50	53.8	108	52.5	105	2	70-130/25
95-49-8	o-Chlorotoluene	50	51.1	102	50.3	101	2	70-130/25
106-43-4	p-Chlorotoluene	50	52.9	106	52.3	105	1	70-130/25
124-48-1	Dibromochloromethane	50	50.1	100	49.4	99	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.5	105	51.8	104	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	51.5	103	51.1	102	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	52.9	106	51.9	104	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	46.6	93	45.3	91	3	70-130/25
75-34-3	1,1-Dichloroethane	50	50.2	100	44.5	89	12	70-130/25
107-06-2	1,2-Dichloroethane	50	53.9	108	52.5	105	3	70-130/25
75-35-4	1,1-Dichloroethene	50	49.7	99	47.7	95	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	50.4	101	49.3	99	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.1	100	48.5	97	3	70-130/25
78-87-5	1,2-Dichloropropane	50	52.7	105	51.7	103	2	70-130/25
142-28-9	1,3-Dichloropropane	50	55.5	111	54.5	109	2	70-130/25
594-20-7	2,2-Dichloropropane	50	54.4	109	52.5	105	4	70-130/25
563-58-6	1,1-Dichloropropene	50	56.1	112	53.8	108	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: Method: SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	49.7	99	48.9	98	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	52.5	105	2	70-130/25
123-91-1	1,4-Dioxane	250	306	122	300	120	2	70-130/25
97-63-2	Ethyl methacrylate	50	54.6	109	53.4	107	2	77-137/25
100-41-4	Ethylbenzene	50	56.0	112	54.8	110	2	70-130/25
87-68-3	Hexachlorobutadiene	50	51.2	102	50.9	102	1	70-130/25
591-78-6	2-Hexanone	50	83.0	166* [b]	78.2	156* [b]	6	70-130/25
98-82-8	Isopropylbenzene	50	55.8	112	55.0	110	1	70-130/25
99-87-6	p-Isopropyltoluene	50	51.9	104	51.2	102	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	49.3	99	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	59.7	119	57.8	116	3	70-130/25
74-95-3	Methylene bromide	50	55.3	111	54.4	109	2	70-130/25
75-09-2	Methylene chloride	50	49.1	98	47.7	95	3	70-130/25
91-20-3	Naphthalene	50	64.2	128	65.8	132* [a]	2	70-130/25
103-65-1	n-Propylbenzene	50	56.0	112	55.3	111	1	70-130/25
100-42-5	Styrene	50	55.7	111	54.6	109	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	51.3	103	50.4	101	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	63.4	127	63.4	127	0	70-130/25
127-18-4	Tetrachloroethene	50	51.2	102	49.6	99	3	70-130/25
108-88-3	Toluene	50	55.0	110	53.3	107	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	61.6	123	63.0	126	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	55.3	111	56.0	112	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	47.7	95	46.1	92	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	55.8	112	55.0	110	1	70-130/25
79-01-6	Trichloroethene	50	50.5	101	49.2	98	3	70-130/25
75-69-4	Trichlorofluoromethane	50	48.3	97	45.6	91	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	55.9	112	55.3	111	1	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	55.8	112	55.5	111	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	50.7	101	50.1	100	1	70-130/25
108-05-4	Vinyl Acetate	50	56.5	113	53.3	107	6	70-130/25
75-01-4	Vinyl chloride	50	47.3	95	45.0	90	5	70-130/25
	m,p-Xylene	100	111	111	108	108	3	70-130/25
95-47-6	o-Xylene	50	54.8	110	53.8	108	2	70-130/25
1330-20-7	Xylene (total)	150	166	111	162	108	2	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV709-BS	V17968.D	1	04/24/13	AMY	n/a	n/a	MSV709
MSV709-BSD	V17969.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	86%	86%	70-130%
2037-26-5	Toluene-D8	92%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	MC19877-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	5.9	J	250	269	105	250	255	100	5	70-130/30
107-02-8	Acrolein	ND		1250	1570	126	1250	1520	122	3	70-130/30
107-13-1	Acrylonitrile	ND		250	265	106	250	252	101	5	70-130/30
71-43-2	Benzene	ND		250	250	100	250	238	95	5	70-130/30
108-86-1	Bromobenzene	ND		250	269	108	250	261	104	3	70-130/30
74-97-5	Bromochloromethane	ND		250	262	105	250	250	100	5	70-130/30
75-27-4	Bromodichloromethane	ND		250	242	97	250	232	93	4	70-130/30
75-25-2	Bromoform	ND		250	238	95	250	232	93	3	70-130/30
74-83-9	Bromomethane	ND		250	257	103	250	251	100	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	290	116	250	276	110	5	70-130/30
104-51-8	n-Butylbenzene	ND		250	231	92	250	222	89	4	70-130/30
135-98-8	sec-Butylbenzene	ND		250	223	89	250	218	87	2	70-130/30
98-06-6	tert-Butylbenzene	ND		250	258	103	250	241	96	7	70-130/30
75-15-0	Carbon disulfide	ND		250	226	90	250	219	88	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	237	95	250	226	90	5	70-130/30
108-90-7	Chlorobenzene	ND		250	252	101	250	241	96	4	70-130/30
75-00-3	Chloroethane	ND		250	267	107	250	263	105	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	23.2	9* [a]	200* [b]	70-130/30
67-66-3	Chloroform	ND		250	249	100	250	238	95	5	70-130/30
74-87-3	Chloromethane	ND		250	261	104	250	250	100	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	249	100	250	240	96	4	70-130/30
106-43-4	p-Chlorotoluene	ND		250	257	103	250	245	98	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	243	97	250	238	95	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	252	101	250	245	98	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	250	100	250	243	97	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	256	102	250	248	99	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	228	91	250	219	88	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	258	103	250	247	99	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	258	103	250	246	98	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	255	102	250	246	98	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	250	100	250	243	97	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	256	102	250	246	98	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	259	104	250	247	99	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	276	110	250	265	106	4	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	253	101	250	242	97	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	274	110	250	259	104	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Compound	MC19877-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	237	95	250	225	90	5	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	261	104	250	248	99	5	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1390	111	1250	1310	105	6	70-130/30
97-63-2	Ethyl methacrylate	ND		250	275	110	250	261	104	5	72-139/30
100-41-4	Ethylbenzene	ND		250	280	112	250	267	107	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	224	90	250	234	94	4	70-130/30
591-78-6	2-Hexanone	ND		250	296	118	250	282	113	5	70-130/30
98-82-8	Isopropylbenzene	ND		250	274	110	250	263	105	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	248	99	250	239	96	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	5.1		250	261	102	250	251	98	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	290	116	250	275	110	5	70-130/30
74-95-3	Methylene bromide	ND		250	275	110	250	259	104	6	70-130/30
75-09-2	Methylene chloride	ND		250	252	101	250	240	96	5	70-130/30
91-20-3	Naphthalene	ND		250	317	127	250	318	127	0	70-130/30
103-65-1	n-Propylbenzene	ND		250	270	108	250	260	104	4	70-130/30
100-42-5	Styrene	ND		250	275	110	250	264	106	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	244	98	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	312	125	250	302	121	3	70-130/30
127-18-4	Tetrachloroethene	ND		250	255	102	250	245	98	4	70-130/30
108-88-3	Toluene	ND		250	269	108	250	257	103	5	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	247	99	250	288	115	15	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	246	98	250	262	105	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	235	94	250	225	90	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	276	110	250	262	105	5	70-130/30
79-01-6	Trichloroethene	ND		250	247	99	250	236	94	5	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	227	91	250	220	88	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	265	106	250	257	103	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	278	111	250	262	105	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	246	98	250	234	94	5	70-130/30
108-05-4	Vinyl Acetate	ND		250	275	110	250	264	106	4	70-130/30
75-01-4	Vinyl chloride	ND		250	222	89	250	218	87	2	70-130/30
	m,p-Xylene	ND		500	556	111	500	527	105	5	70-130/30
95-47-6	o-Xylene	ND		250	274	110	250	263	105	4	70-130/30
1330-20-7	Xylene (total)	ND		750	830	111	750	791	105	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC19877-3MS	V17983.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3MSD	V17984.D	5	04/24/13	AMY	n/a	n/a	MSV709
MC19877-3	V17974.D	1	04/24/13	AMY	n/a	n/a	MSV709

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC19877-1, MC19877-2, MC19877-3, MC19877-4

CAS No.	Surrogate Recoveries	MS	MSD	MC19877-3	Limits
1868-53-7	Dibromofluoromethane	85%	86%	87%	70-130%
2037-26-5	Toluene-D8	91%	90%	91%	70-130%
460-00-4	4-Bromofluorobenzene	91%	92%	93%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV709-CC704	**Injection Date:**	04/24/13
Lab File ID:	V17967.D	**Injection Time:**	12:43
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	796689	6.57	1246182	7.75	579737	11.09	647871	13.30	147193	3.52
Upper Limit [a]	1593378	7.07	2492364	8.25	1159474	11.59	1295742	13.80	294386	4.02
Lower Limit [b]	398345	6.07	623091	7.25	289869	10.59	323936	12.80	73597	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV709-BS	805628	6.57	1258154	7.75	586918	11.09	660280	13.30	149960	3.51
MSV709-BSD	814645	6.57	1280128	7.75	593957	11.09	658067	13.30	149886	3.51
MSV709-MB	773345	6.58	1233538	7.76	573291	11.09	632932	13.30	153391	3.52
MC19877-4	761614	6.58	1220735	7.76	564577	11.09	622909	13.30	148120	3.52
MC19877-3	790550	6.58	1290544	7.76	608056	11.09	682479	13.30	158483	3.52
MC19877-1	780378	6.58	1221899	7.76	578007	11.09	640236	13.30	169932	3.53
MC19877-2	804092	6.57	1254906	7.75	580900	11.09	647057	13.30	176928	3.51
ZZZZZZ	788545	6.57	1277121	7.75	588780	11.09	658310	13.30	639106[c]	3.51
ZZZZZZ	794637	6.58	1254474	7.76	589979	11.09	655979	13.30	218630	3.53
ZZZZZZ	799810	6.58	1269977	7.76	578154	11.09	641796	13.30	160036	3.52
ZZZZZZ	773447	6.58	1228403	7.76	570872	11.09	625536	13.30	166808	3.52
ZZZZZZ	790208	6.57	1246515	7.75	581559	11.09	634983	13.30	172630	3.52
ZZZZZZ	863248	6.58	1354351	7.76	629359	11.09	685739	13.30	179917	3.52
MC19877-3MS	841147	6.58	1321321	7.76	607543	11.09	685956	13.30	172624	3.52
MC19877-3MSD	862846	6.58	1370067	7.75	625301	11.09	707021	13.30	170413	3.52
ZZZZZZ	899811	6.57	1428328	7.75	661742	11.09	742101	13.30	166270	3.51
ZZZZZZ	831677	6.57	1323970	7.75	604687	11.09	681553	13.30	150741	3.51
ZZZZZZ	776130	6.57	1225834	7.75	565409	11.09	626173	13.30	132839	3.51
ZZZZZZ	813566	6.57	1281153	7.75	590502	11.09	659608	13.30	127207	3.51
ZZZZZZ	802007	6.57	1274527	7.75	588530	11.09	664155	13.30	127747	3.51
ZZZZZZ	785913	6.57	1237047	7.75	573088	11.09	643864	13.30	122273	3.51
ZZZZZZ	773459	6.57	1240730	7.75	576138	11.08	658068	13.30	123209	3.50
ZZZZZZ	752218	6.57	1194630	7.75	558466	11.09	627777	13.30	117421	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19877-1	V17975.D	83	91	91
MC19877-2	V17976.D	82	91	92
MC19877-3	V17974.D	87	91	93
MC19877-4	V17973.D	85	90	91
MC19877-3MS	V17983.D	85	91	91
MC19877-3MSD	V17984.D	86	90	92
MSV709-BS	V17968.D	86	92	91
MSV709-BSD	V17969.D	86	91	92
MSV709-MB	V17972.D	84	90	91

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-MB	W11361.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-MB	W11361.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	68%	15-110%
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	62%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32726-MB	I82768.D	1	04/20/13	KR	04/19/13	OP32726	MSI3076

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	56%	30-130%
321-60-8	2-Fluorobiphenyl	55%	30-130%
1718-51-0	Terphenyl-d14	64%	30-130%

Blank Spike Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-BS	W11362.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	44.7	45	30-130
95-57-8	2-Chlorophenol	100	98.4	98	30-130
59-50-7	4-Chloro-3-methyl phenol	100	101	101	30-130
120-83-2	2,4-Dichlorophenol	100	110	110	30-130
105-67-9	2,4-Dimethylphenol	100	97.3	97	30-130
51-28-5	2,4-Dinitrophenol	100	108	108	30-130
534-52-1	4,6-Dinitro-o-cresol	100	109	109	30-130
95-48-7	2-Methylphenol	100	84.7	85	30-130
	3&4-Methylphenol	200	161	81	30-130
88-75-5	2-Nitrophenol	100	112	112	30-130
100-02-7	4-Nitrophenol	100	56.6	57	30-130
87-86-5	Pentachlorophenol	100	109	109	30-130
108-95-2	Phenol	100	43.3	43	30-130
95-95-4	2,4,5-Trichlorophenol	100	110	110	30-130
88-06-2	2,4,6-Trichlorophenol	100	113	113	30-130
62-53-3	Aniline	50	21.9	44	40-140
101-55-3	4-Bromophenyl phenyl ether	50	33.6	67	40-140
85-68-7	Butyl benzyl phthalate	50	33.9	68	40-140
100-51-6	Benzyl Alcohol	50	29.9	60	40-140
91-58-7	2-Chloronaphthalene	100	68.1	68	40-140
106-47-8	4-Chloroaniline	50	28.3	57	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	34.3	69	40-140
111-44-4	bis(2-Chloroethyl)ether	50	39.6	79	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	38.5	77	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	33.6	67	40-140
122-66-7	1,2-Diphenylhydrazine	50	38.8	78	40-140
121-14-2	2,4-Dinitrotoluene	100	69.5	70	40-140
606-20-2	2,6-Dinitrotoluene	100	69.3	69	40-140
91-94-1	3,3'-Dichlorobenzidine	50	4.6	9* [a]	40-140
132-64-9	Dibenzofuran	50	33.2	66	40-140
84-74-2	Di-n-butyl phthalate	50	33.3	67	40-140
117-84-0	Di-n-octyl phthalate	50	41.9	84	40-140
84-66-2	Diethyl phthalate	50	29.5	59	40-140
131-11-3	Dimethyl phthalate	50	21.2	42	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.9	78	40-140
118-74-1	Hexachlorobenzene	100	73.2	73	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-BS	W11362.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	100	31.9	32* [a]	40-140
67-72-1	Hexachloroethane	100	49.7	50	40-140
78-59-1	Isophorone	100	74.0	74	40-140
88-74-4	2-Nitroaniline	50	35.4	71	40-140
99-09-2	3-Nitroaniline	50	25.4	51	40-140
100-01-6	4-Nitroaniline	50	32.3	65	40-140
98-95-3	Nitrobenzene	100	66.6	67	40-140
62-75-9	n-Nitrosodimethylamine	50	23.8	48	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	35.0	70	40-140
86-30-6	N-Nitrosodiphenylamine	50	35.7	71	40-140
110-86-1	Pyridine	50	19.2	38* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	35%	15-110%
118-79-6	2,4,6-Tribromophenol	80%	15-110%
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	87%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32726-BS	I82769.D	1	04/20/13	KR	04/19/13	OP32726	MSI3076

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	31.1	62	40-140
208-96-8	Acenaphthylene	50	24.1	48	40-140
120-12-7	Anthracene	50	32.7	65	40-140
56-55-3	Benzo(a)anthracene	50	35.8	72	40-140
50-32-8	Benzo(a)pyrene	50	31.5	63	40-140
205-99-2	Benzo(b)fluoranthene	50	33.9	68	40-140
191-24-2	Benzo(g,h,i)perylene	50	39.1	78	40-140
207-08-9	Benzo(k)fluoranthene	50	35.9	72	40-140
218-01-9	Chrysene	50	33.8	68	40-140
53-70-3	Dibenzo(a,h)anthracene	50	34.6	69	40-140
206-44-0	Fluoranthene	50	34.4	69	40-140
86-73-7	Fluorene	50	29.9	60	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	34.0	68	40-140
90-12-0	1-Methylnaphthalene	50	30.3	61	40-140
91-57-6	2-Methylnaphthalene	50	30.4	61	40-140
85-01-8	Phenanthrene	50	33.2	66	40-140
129-00-0	Pyrene	50	34.1	68	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	64%	30-130%
321-60-8	2-Fluorobiphenyl	58%	30-130%
1718-51-0	Terphenyl-d14	72%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-MS	W11363.D	1	04/20/13	KR	04/19/13	OP32725	MSW530
OP32725-MSD	W11364.D	1	04/20/13	KR	04/19/13	OP32725	MSW530
MC19900-3	W11365.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: Method: SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	MC19900-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	51.5	52	100	53.4	53	4	30-130/20
95-57-8	2-Chlorophenol	ND		100	109	109	100	109	109	0	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	113	113	100	113	113	0	30-130/20
120-83-2	2,4-Dichlorophenol	ND		100	124	124	100	122	122	2	30-130/20
105-67-9	2,4-Dimethylphenol	ND		100	111	111	100	111	111	0	30-130/20
51-28-5	2,4-Dinitrophenol	ND		100	124	124	100	124	124	0	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		100	123	123	100	123	123	0	30-130/20
95-48-7	2-Methylphenol	ND		100	94.9	95	100	93.9	94	1	30-130/20
	3&4-Methylphenol	ND		200	180	90	200	181	91	1	30-130/20
88-75-5	2-Nitrophenol	ND		100	127	127	100	125	125	2	30-130/20
100-02-7	4-Nitrophenol	ND		100	64.3	64	100	65.7	66	2	30-130/20
87-86-5	Pentachlorophenol	ND		100	124	124	100	121	121	2	30-130/20
108-95-2	Phenol	ND		100	47.9	48	100	48.7	49	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		100	126	126	100	125	125	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		100	128	128	100	127	127	1	30-130/20
62-53-3	Aniline	ND		50	27.8	56	50	27.1	54	3	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	41.5	83	50	40.7	81	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	40.0	80	50	37.3	75	7	40-140/20
100-51-6	Benzyl Alcohol	ND		50	36.0	72	50	36.0	72	0	40-140/20
91-58-7	2-Chloronaphthalene	ND		100	87.2	87	100	84.1	84	4	40-140/20
106-47-8	4-Chloroaniline	ND		50	35.2	70	50	35.0	70	1	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	42.3	85	50	40.8	82	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	47.4	95	50	46.1	92	3	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.4	93	50	45.1	90	3	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	41.9	84	50	40.7	81	3	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	46.6	93	50	46.2	92	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		100	89.6	90	100	88.4	88	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		100	90.3	90	100	86.9	87	4	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	6.0	12* [a]	50	5.9	12* [a]	2	40-140/20
132-64-9	Dibenzofuran	ND		50	41.4	83	50	39.9	80	4	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	40.1	80	50	38.6	77	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	48.4	97	50	48.1	96	1	40-140/20
84-66-2	Diethyl phthalate	ND		50	35.4	71	50	31.7	63	11	40-140/20
131-11-3	Dimethyl phthalate	ND		50	24.5	49	50	18.1	36* [b]	30* [b]	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	45.2	90	50	44.8	90	1	40-140/20
118-74-1	Hexachlorobenzene	ND		100	90.9	91	100	89.8	90	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32725-MS	W11363.D	1	04/20/13	KR	04/19/13	OP32725	MSW530
OP32725-MSD	W11364.D	1	04/20/13	KR	04/19/13	OP32725	MSW530
MC19900-3	W11365.D	1	04/20/13	KR	04/19/13	OP32725	MSW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	MC19900-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		100	43.6	44	100	40.5	40	7	40-140/20
67-72-1	Hexachloroethane	ND		100	66.4	66	100	62.5	62	6	40-140/20
78-59-1	Isophorone	ND		100	93.2	93	100	91.5	92	2	40-140/20
88-74-4	2-Nitroaniline	ND		50	44.1	88	50	42.3	85	4	40-140/20
99-09-2	3-Nitroaniline	ND		50	32.0	64	50	31.6	63	1	40-140/20
100-01-6	4-Nitroaniline	ND		50	39.7	79	50	38.7	77	3	40-140/20
98-95-3	Nitrobenzene	ND		100	84.4	84	100	82.0	82	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.8	56	50	27.5	55	1	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	42.8	86	50	41.8	84	2	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	44.2	88	50	42.9	86	3	40-140/20
110-86-1	Pyridine	ND		50	24.2	48	50	23.2	46	4	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC19900-3	Limits
367-12-4	2-Fluorophenol	57%	57%	53%	15-110%
4165-62-2	Phenol-d5	37%	38%	35%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	86%	82%	15-110%
4165-60-0	Nitrobenzene-d5	91%	88%	76%	30-130%
321-60-8	2-Fluorobiphenyl	89%	85%	70%	30-130%
1718-51-0	Terphenyl-d14	98%	99%	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32726-MS	I82898.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082
OP32726-MSD	I82899.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082
MC20000-2	I82900.D	1	04/30/13	NS	04/19/13	OP32726	MSI3082

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC19877-1, MC19877-2, MC19877-3

CAS No.	Compound	MC20000-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	37.8	76	50	37.1	74	2	40-140/20
208-96-8	Acenaphthylene	ND		50	29.1	58	50	28.3	57	3	40-140/20
120-12-7	Anthracene	ND		50	38.9	78	50	38.5	77	1	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	45.0	90	50	44.1	88	2	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	39.7	79	50	39.6	79	0	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	42.4	85	50	41.2	82	3	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	50.1	100	50	49.6	99	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	48.6	97	50	47.9	96	1	40-140/20
218-01-9	Chrysene	ND		50	43.7	87	50	43.0	86	2	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	45.1	90	50	44.2	88	2	40-140/20
206-44-0	Fluoranthene	ND		50	42.3	85	50	41.6	83	2	40-140/20
86-73-7	Fluorene	ND		50	38.0	76	50	36.8	74	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	44.4	89	50	43.5	87	2	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	37.9	76	50	36.0	72	5	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	38.0	76	50	36.5	73	4	40-140/20
85-01-8	Phenanthrene	ND		50	39.5	79	50	38.8	78	2	40-140/20
129-00-0	Pyrene	ND		50	41.8	84	50	41.3	83	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC20000-2	Limits
367-12-4	2-Fluorophenol	46%	46%	42%	15-110%
4165-62-2	Phenol-d5	30%	31%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	86%	79%	15-110%
4165-60-0	Nitrobenzene-d5	76%	74%	62%	30-130%
321-60-8	2-Fluorobiphenyl	73%	70%	61%	30-130%
1718-51-0	Terphenyl-d14	84%	84%	76%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSF2955-CC2937	**Injection Date:**	04/23/13
Lab File ID:	F63268.D	**Injection Time:**	08:25
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	30601	4.04	120229	5.04	78200	6.47	151840	7.82	177124	10.61	164040	12.08
Upper Limit [a]	61202	4.54	240458	5.54	156400	6.97	303680	8.32	354248	11.11	328080	12.58
Lower Limit [b]	15301	3.54	60115	4.54	39100	5.97	75920	7.32	88562	10.11	82020	11.58

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC19877-1	21368	4.05	81483	5.03	52879	6.47	99435	7.82	119424	10.60	110565	12.07
MC19877-2	22262	4.04	85798	5.04	55473	6.47	104511	7.82	127595	10.60	119464	12.07
MC19877-3	21485	4.04	82122	5.03	53522	6.47	98152	7.82	113172	10.60	106726	12.07
ZZZZZZ	19985	4.04	77547	5.03	50809	6.47	96854	7.82	111678	10.60	104837	12.07
ZZZZZZ	21327	4.04	80000	5.03	52503	6.47	99818	7.82	119862	10.60	111956	12.07
OP32727-MB	20489	4.04	79917	5.03	53016	6.47	100453	7.82	118991	10.60	107329	12.07
OP32727-BS	20413	4.04	78984	5.03	50853	6.47	96864	7.82	115337	10.60	105891	12.07
ZZZZZZ	21175	4.04	82490	5.03	54088	6.47	100954	7.82	119118	10.60	112149	12.07
ZZZZZZ	21998	4.04	82080	5.03	54954	6.47	103948	7.81	124053	10.60	116117	12.07
ZZZZZZ	23311	4.04	89069	5.03	57718	6.47	110366	7.82	133025	10.60	123320	12.07
ZZZZZZ	25349	4.04	99742	5.03	63925	6.47	118991	7.82	142916	10.60	125024	12.07
ZZZZZZ	25741	4.04	100971	5.03	65718	6.47	120885	7.82	144606	10.60	116897	12.07

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3076-CC3044	**Injection Date:**	04/20/13
Lab File ID:	I82758.D	**Injection Time:**	11:37
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	198688	3.38	498219	4.35	262694	5.75	484699	6.98	380310	9.71	734775	11.10
Upper Limit [a]	397376	3.88	996438	4.85	525388	6.25	969398	7.48	760620	10.21	1469550	11.60
Lower Limit [b]	99344	2.88	249110	3.85	131347	5.25	242350	6.48	190155	9.21	367388	10.60
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP32709-MB	184844	3.38	481101	4.35	246087	5.74	422840	6.98	352887	9.71	664488	11.10
OP32709-BS	181140	3.39	458958	4.35	238054	5.75	424759	6.99	329864	9.71	614863	11.10
OP32709-MS	184551	3.39	469926	4.35	244607	5.75	428035	6.99	330004	9.71	621984	11.10
OP32709-MSD	178321	3.39	452907	4.35	233707	5.75	414897	6.99	316908	9.71	588923	11.10
MC19780-16	185016	3.38	478747	4.35	241781	5.74	422210	6.98	338243	9.71	658239	11.10
ZZZZZZ	188582	3.39	496441	4.35	254472	5.74	447611	6.98	345623	9.71	648306	11.10
ZZZZZZ	198820	3.39	518375	4.35	261609	5.75	459345	6.98	355173	9.71	660276	11.10
ZZZZZZ	213076	3.39	557461	4.35	282737	5.74	490871	6.98	376930	9.71	696851	11.10
ZZZZZZ	190417	3.38	492336	4.35	248823	5.74	427714	6.98	340233	9.71	650807	11.10
OP32726-MB	193929	3.38	506076	4.35	255039	5.74	432691	6.98	352603	9.71	678373	11.10
OP32726-BS	179418	3.39	457061	4.35	237987	5.75	425098	6.99	339833	9.71	653303	11.10
ZZZZZZ	180554	3.38	461790	4.35	237568	5.74	419666	6.98	329922	9.71	640689	11.10
ZZZZZZ	199416	3.38	507788	4.35	257258	5.74	438201	6.98	351698	9.71	671952	11.10
ZZZZZZ	191155	3.38	492221	4.35	249987	5.75	427618	6.98	348893	9.71	672667	11.10
ZZZZZZ	185985	3.38	478562	4.35	240501	5.75	423086	6.98	333485	9.71	636848	11.10
ZZZZZZ	177599	3.38	463565	4.35	229992	5.74	406981	6.98	320178	9.71	613151	11.10
ZZZZZZ	166470	3.38	427597	4.35	218587	5.74	380486	6.98	307985	9.70	599340	11.10
ZZZZZZ	159080	3.38	400741	4.35	203553	5.75	365430	6.99	295789	9.71	574698	11.10
ZZZZZZ	166145	3.38	424382	4.35	211682	5.75	373527	6.98	288963	9.71	556772	11.11
ZZZZZZ	162238	3.38	433337	4.35	224648	5.74	394415	6.98	312776	9.71	595994	11.10
ZZZZZZ	158731	3.38	407773	4.35	204644	5.74	358266	6.98	293771	9.71	567259	11.10
ZZZZZZ	158535	3.38	413509	4.35	204943	5.76	378538	7.00	312682	9.72	571639	11.11

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3082-CC3044	**Injection Date:**	04/30/13
Lab File ID:	I82897.D	**Injection Time:**	08:31
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	133255	3.38	353748	4.35	195542	5.74	379995	6.98	335020	9.71	652948	11.10
Upper Limit [a]	266510	3.88	707496	4.85	391084	6.24	759990	7.48	670040	10.21	1305896	11.60
Lower Limit [b]	66628	2.88	176874	3.85	97771	5.24	189998	6.48	167510	9.21	326474	10.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32726-MS	96070	3.38	255586	4.35	140115	5.74	266605	6.98	229443	9.71	447657	11.10
OP32726-MSD	103996	3.38	273910	4.35	148577	5.74	277173	6.98	239303	9.71	461299	11.10
MC20000-2	103303	3.38	277852	4.35	147983	5.74	275086	6.98	240364	9.70	483669	11.10
MC19877-1	99074	3.38	259765	4.35	141552	5.74	270086	6.98	250424	9.70	484799	11.10
MC19877-2	122497	3.38	316208	4.35	171143	5.74	321331	6.98	286465	9.70	572601	11.10
MC19877-3	104124	3.38	270486	4.35	143247	5.75	268116	6.98	237618	9.71	487728	11.10
OP32819-MB	111242	3.38	294946	4.35	155905	5.74	290447	6.98	251790	9.71	506761	11.10
OP32817-MB	111242	3.38	294946	4.35	155905	5.74	290447	6.98	251790	9.71	506761	11.10
OP32817-BS	120081	3.38	312656	4.35	170739	5.74	319528	6.98	274828	9.71	550136	11.10
OP32819-BS	120081	3.38	312656	4.35	170739	5.74	319528	6.98	274828	9.71	550136	11.10
OP32819-BSD	110710	3.38	286200	4.35	154825	5.74	287526	6.98	251552	9.71	499478	11.10
OP32792-MB	98274	3.38	266784	4.35	140523	5.74	262267	6.98	217160	9.70	422742	11.10
OP32817-MS	120995	3.38	310980	4.35	166550	5.74	308143	6.98	259231	9.70	528768	11.10
OP32819-MS	120995	3.38	310980	4.35	166550	5.74	308143	6.98	259231	9.70	528768	11.10
OP32817-MSD	124688	3.38	321793	4.35	172298	5.74	314260	6.98	266268	9.71	548838	11.10
OP32819-MSD	124688	3.38	321793	4.35	172298	5.74	314260	6.98	266268	9.71	548838	11.10
ZZZZZZ	122070	3.38	318972	4.35	167022	5.74	317381	6.98	272767	9.71	559944	11.10
ZZZZZZ	53150[c]	3.38	139238[c]	4.35	73790[c]	5.74	142842[c]	6.98	119773[c]	9.70	237595[c]	11.10
ZZZZZZ	125503	3.38	321704	4.35	194514	5.74	324269	6.98	283229	9.71	578958	11.10
ZZZZZZ	57448[c]	3.38	156260[c]	4.35	81221[c]	5.74	156247[c]	6.98	134367[c]	9.70	268360[c]	11.10
ZZZZZZ	100118	3.38	264422	4.35	141173	5.75	262243	6.98	220303	9.70	447736	11.10
ZZZZZZ	46694[c]	3.41	531852	4.44	167021	5.84	284128	7.05	301609	9.74	551412	11.13
ZZZZZZ	98633	3.38	270352	4.35	215191	5.75	296376	6.99	282183	9.73	525962	11.13
MC20000-14	85663	3.38	237313	4.35	133898	5.74	257043	6.98	225512	9.71	432248	11.10
MC20016-1	85663	3.38	237313	4.35	133898	5.74	257043	6.98	225512	9.71	432248	11.10
ZZZZZZ	88965	3.38	243798	4.35	134221	5.74	263093	6.98	230976	9.71	444445	11.10
ZZZZZZ	80536	3.38	213579	4.35	122396	5.74	237888	6.98	210190	9.71	408014	11.10
ZZZZZZ	93672	3.38	255288	4.35	139616	5.74	270428	6.98	236797	9.71	465677	11.10
ZZZZZZ	90264	3.38	243110	4.35	130782	5.74	247981	6.98	215952	9.70	433546	11.10
ZZZZZZ	103971	3.38	285411	4.35	153788	5.74	288211	6.98	256374	9.70	514165	11.10
ZZZZZZ	115023	3.38	297160	4.35	166957	5.74	305280	6.98	283063	9.71	559553	11.10
ZZZZZZ	101582	3.38	267281	4.35	148937	5.74	277549	6.98	256869	9.71	501256	11.10
ZZZZZZ	107098	3.38	293815	4.35	162935	5.74	309512	6.98	272049	9.71	533320	11.10

IS 1 = 1,4-Dichlorobenzene-d4

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3082-CC3044	**Injection Date:**	04/30/13
Lab File ID:	I82897.D	**Injection Time:**	08:31
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW530-CC505	**Injection Date:**	04/20/13
Lab File ID:	W11360.D	**Injection Time:**	11:34
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	103861	3.59	388749	4.58	264094	6.00	454319	7.28	584573	10.15	540287	11.72
Upper Limit [a]	207722	4.09	777498	5.08	528188	6.50	908638	7.78	1169146	10.65	1080574	12.22
Lower Limit [b]	51931	3.09	194375	4.08	132047	5.50	227160	6.78	292287	9.65	270144	11.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP32725-MB	100847	3.59	382892	4.57	250900	6.00	453639	7.27	543718	10.14	528166	11.71
OP32725-BS	106413	3.59	404505	4.58	268149	6.00	472019	7.28	577336	10.14	558192	11.71
OP32725-MS	106271	3.59	399397	4.58	262139	6.00	464657	7.28	568210	10.14	545804	11.71
OP32725-MSD	101917	3.59	385945	4.58	255785	6.00	448455	7.28	540636	10.14	523342	11.71
MC19900-3	90048	3.59	340511	4.57	220792	6.00	396998	7.27	469013	10.14	461458	11.71
OP32717-MB	99086	3.59	370138	4.57	240962	6.00	432236	7.28	500450	10.14	486810	11.71
OP32733-MB	99086	3.59	370138	4.57	240962	6.00	432236	7.28	500450	10.14	486810	11.71
OP32717-BS	101518	3.59	380299	4.58	249875	6.00	434286	7.28	524562	10.14	498739	11.71
OP32733-BS	101518	3.59	380299	4.58	249875	6.00	434286	7.28	524562	10.14	498739	11.71
OP32717-BSD	100792	3.59	373687	4.58	245441	6.00	423379	7.28	510116	10.14	484419	11.71
OP32733-MS	100221	3.59	372364	4.58	243339	6.00	433187	7.28	511446	10.14	491805	11.71
OP32717-MS	100221	3.59	372364	4.58	243339	6.00	433187	7.28	511446	10.14	491805	11.71
OP32717-MSD	100591	3.59	373466	4.58	245708	6.00	424115	7.28	508373	10.14	495797	11.71
OP32733-MSD	100591	3.59	373466	4.58	245708	6.00	424115	7.28	508373	10.14	495797	11.71
MC19888-8	107434	3.59	407699	4.57	261699	6.00	466626	7.28	544179	10.14	544484	11.71
MC19900-10	107434	3.59	407699	4.57	261699	6.00	466626	7.28	544179	10.14	544484	11.71
ZZZZZZ	109987	3.59	412456	4.57	266512	6.00	481601	7.28	608708	10.14	605704	11.72
ZZZZZZ	104774	3.59	396739	4.57	263352	6.00	469088	7.28	545004	10.14	540350	11.71
ZZZZZZ	103050	3.59	391586	4.58	253225	6.00	460474	7.27	534505	10.14	528091	11.71
ZZZZZZ	103836	3.59	394755	4.57	261081	6.00	458230	7.28	545755	10.14	537153	11.71
ZZZZZZ	108212	3.59	411979	4.57	269294	6.00	482163	7.28	568636	10.14	558192	11.71
ZZZZZZ	103329	3.59	398363	4.57	262939	6.00	467780	7.27	563075	10.14	546445	11.71
ZZZZZZ	97025	3.59	372880	4.57	241667	6.00	438791	7.27	521284	10.14	514183	11.71
ZZZZZZ	101808	3.59	387493	4.57	253113	6.00	462783	7.27	557858	10.14	539075	11.71
ZZZZZZ	88524	3.59	342764	4.57	221671	6.00	404208	7.27	481751	10.14	473183	11.71
ZZZZZZ	95302	3.59	363538	4.57	240264	6.00	438072	7.27	518213	10.14	516232	11.71
ZZZZZZ	95025	3.59	365094	4.57	237747	6.00	435543	7.27	527518	10.14	525095	11.71
ZZZZZZ	93895	3.59	362148	4.57	237235	6.00	436552	7.27	527393	10.14	521297	11.71
ZZZZZZ	91749	3.59	372175	4.58	278548	6.01	506521	7.29	544196	10.14	530444	11.71
ZZZZZZ	96943	3.59	414028	4.58	311573	6.02	531687	7.30	577684	10.14	556330	11.71
ZZZZZZ	95186	3.59	379265	4.57	264222	6.00	473951	7.27	569797	10.14	567396	11.71
ZZZZZZ	98399	3.59	418265	4.58	326018	6.01	559226	7.29	609622	10.14	594983	11.71
ZZZZZZ	79931	3.59	312375	4.57	210215	6.00	398498	7.27	509024	10.13	507972	11.71

IS 1 = 1,4-Dichlorobenzene-d4

Semivolatile Internal Standard Area Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW530-CC505	**Injection Date:**	04/20/13
Lab File ID:	W11360.D	**Injection Time:**	11:34
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC19877-1	F63269.D	46	31	95	95	85	65
MC19877-2	F63270.D	49	40	97	92	82	49
MC19877-3	F63271.D	45	31	87	80	67	48
OP32725-BS	W11362.D	53	35	80	74	72	87
OP32725-MB	W11361.D	43	27	68	67	62	76
OP32725-MS	W11363.D	57	37	84	91	89	98
OP32725-MSD	W11364.D	57	38	86	88	85	99

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC19877-1	I82901.D	77	75	66
MC19877-2	I82902.D	74	73	49
MC19877-3	I82903.D	64	62	47
OP32726-BS	I82769.D	64	58	72
OP32726-MB	I82768.D	56	55	64
OP32726-MS	I82898.D	76	73	84
OP32726-MSD	I82899.D	74	70	84

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-MB	BK23674.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19877-1, MC19877-2, MC19877-3, MC19877-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	97%	36-173%
460-00-4	Bromofluorobenzene (S)	102%	36-173%

Blank Spike Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-BS	BK23675.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19877-1, MC19877-2, MC19877-3, MC19877-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.064	90	60-140
106-93-4	1,2-Dibromoethane	0.071	0.078	110	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	101%	36-173%
460-00-4	Bromofluorobenzene (S)	102%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32697-MS	BK23676.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
OP32697-MSD	BK23677.D	1	04/18/13	NK	04/17/13	OP32697	GBK833
MC19800-11	BK23678.D	1	04/18/13	NK	04/17/13	OP32697	GBK833

The QC reported here applies to the following samples: **Method:** SW846 8011

MC19877-1, MC19877-2, MC19877-3, MC19877-5

CAS No.	Compound	MC19800-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.067	94	0.071	0.069	97	3	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.077	108	0.071	0.067	94	14	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC19800-11	Limits
460-00-4	Bromofluorobenzene (S)	97%	95%	94%	36-173%
460-00-4	Bromofluorobenzene (S)	101%	102%	100%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC19877-1	BK23687.D	117	119
MC19877-2	BK23688.D	140	127
MC19877-3	BK23689.D	115	95
MC19877-5	BK23690.D	115	121
OP32697-BS	BK23675.D	101	102
OP32697-MB	BK23674.D	97	102
OP32697-MS	BK23676.D	97	101
OP32697-MSD	BK23677.D	95	102

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-ICC833	**Injection Date:**	04/18/13
Lab File ID:	BK23669.D	**Injection Time:**	13:39
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23672A.D	04/18/13	14:51	4.45	4.89
OP32697-MB	BK23674.D	04/18/13	15:40	4.45	4.89
OP32697-BS	BK23675.D	04/18/13	16:04	4.45	4.89
OP32697-MS	BK23676.D	04/18/13	16:29	4.45	4.89
OP32697-MSD	BK23677.D	04/18/13	16:52	4.45	4.89
MC19800-11	BK23678.D	04/18/13	17:16	4.45	4.89
ZZZZZZ	BK23679.D	04/18/13	17:40	4.45	4.88
ZZZZZZ	BK23680.D	04/18/13	18:04	4.45	4.89
ZZZZZZ	BK23681.D	04/18/13	18:28	4.45	4.88
ZZZZZZ	BK23682.D	04/18/13	18:51	4.45	4.88
ZZZZZZ	BK23683.D	04/18/13	19:15	4.45	4.88

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC19877
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBK833-CC833	**Injection Date:**	04/18/13
Lab File ID:	BK23684.D	**Injection Time:**	19:38
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK23685.D	04/18/13	20:02	4.45	4.89
ZZZZZZ	BK23686.D	04/18/13	20:25	4.45	4.88
MC19877-1	BK23687.D	04/18/13	20:48	4.45	4.88
MC19877-2	BK23688.D	04/18/13	21:12	4.45	4.88
MC19877-3	BK23689.D	04/18/13	21:36	4.45	4.88
MC19877-5	BK23690.D	04/18/13	22:01	4.45	4.89
OP32696-MB	BK23691.D	04/18/13	22:25	4.45	4.89
OP32696-BS	BK23692.D	04/18/13	22:49	4.45	4.89
OP32696-MS	BK23693.D	04/18/13	23:13	4.45	4.89
OP32696-MSD	BK23694.D	04/18/13	23:38	4.45	4.89

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC20494

Sampling Date: 05/03/13



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 57

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 1, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC20494

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlboroug has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY. NN

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Sample Summary

Shell Oil

Job No: MC20494

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC20494-1	05/03/13	12:05	LRMM	05/06/13	AQ	Ground Water	P54-ROX-050313
MC20494-1D	05/03/13	12:05	LRMM	05/06/13	AQ	Water Dup/MSD	P54-ROX-050313
MC20494-1S	05/03/13	12:05	LRMM	05/06/13	AQ	Water Matrix Spike	P54-ROX-050313
MC20494-2	05/03/13	00:00	LRMM	05/06/13	AQ	Trip Blank Water	TB-ROX-050313-HCL
MC20494-3	05/03/13	00:00	LRMM	05/06/13	AQ	Trip Blank Water	TB-ROX-050313-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC20494

Site: URSMOSTL:Roxana 2Q 3 GW/ 2 562850 03002 900 South Centra **Report Date** / /20 6 2:36:34 P

Samp e(s), 2 Tr p B ank(s) were co ected on 05/03/20 3 and were rece ved at SGS Accutest New Eng and on 05/06/20 3 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC20494 A st ng of the Laborato y Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report -Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene, and Qu no ne were searched n the bra y search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSV73

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC20494- MS, MC20494- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acro e n are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,2-D ch oroethane, 2-Ch oroethy v ny ether, Acetone are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recove y(s) for 2-Ch oroethy v ny ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Acro e n: In t a Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3299

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC20494- MS, MC20494- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Matr x Sp ke Recovery(s) for N-N trosod pheny am ne, Pyr d ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recove y(s) for N-N trosod pheny am ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for Pyr d ne are outs de contro m ts for samp e OP3299 -MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP32992

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC20494- MS, MC20494- MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP3303

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC20494- MS, MC20494- MSD were used as the QC samp es nd cated

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC20494)

Summary of Hits

Job Number: MC20494
Account: Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Collected: 05/03/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC20494-1	**P54-ROX-050313**					
Benzene		2.8	0.50	0.45	ug/l	SW846 8260B
MC20494-2	**TB-ROX-050313-HCL**					
No hits reported in this sample.						
MC20494-3	**TB-ROX-050313-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V18605.D	1	05/08/13	AMY	n/a	n/a	MSV731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein [a]	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	2.8	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.1	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.74	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W12080.D	1	05/10/13	KR	05/07/13	OP32991	MSW558
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.43	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.55	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.65	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.6	0.57	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.95	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.64	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.15	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.22	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.72	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.75	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.56	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.48	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.56	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.56	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.49	ug/l	
78-59-1	Isophorone	ND	5.6	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.56	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.28	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	0.56	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.90	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.60	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	91%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I83251.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.015	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.015	ug/l	
120-12-7	Anthracene	ND	0.11	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.033	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.019	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.026	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.042	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.065	ug/l	
218-01-9	Chrysene	ND	0.11	0.081	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.046	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.036	ug/l	
86-73-7	Fluorene	ND	0.11	0.051	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.051	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.16	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.058	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		15-110%
4165-62-2	Phenol-d5	38%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	88%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-050313		
Lab Sample ID:	MC20494-1	**Date Sampled:**	05/03/13
Matrix:	AQ - Ground Water	**Date Received:**	05/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB47699.D	1	05/10/13	CZ	05/08/13	OP33031	GBB2861
Run #2							

	Initial Volume	Final Volume
Run #1	32.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.014	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	82%		36-173%
460-00-4	Bromofluorobenzene (S)	90%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-050313-HCL		
Lab Sample ID:	MC20494-2	**Date Sampled:**	05/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V18604.D	1	05/08/13	AMY	n/a	n/a	MSV731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein [a]	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.1	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-050313-HCL		
Lab Sample ID:	MC20494-2	**Date Sampled:**	05/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.74	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-050313-HCL		
Lab Sample ID:	MC20494-2	**Date Sampled:**	05/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-050313-ST		
Lab Sample ID:	MC20494-3	**Date Sampled:**	05/03/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/13
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB47700.D	1	05/10/13	CZ	05/08/13	OP33031	GBB2861
Run #2							

	Initial Volume	Final Volume
Run #1	33.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.016	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.016	0.011	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	80%		36-173%
460-00-4	Bromofluorobenzene (S)	86%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

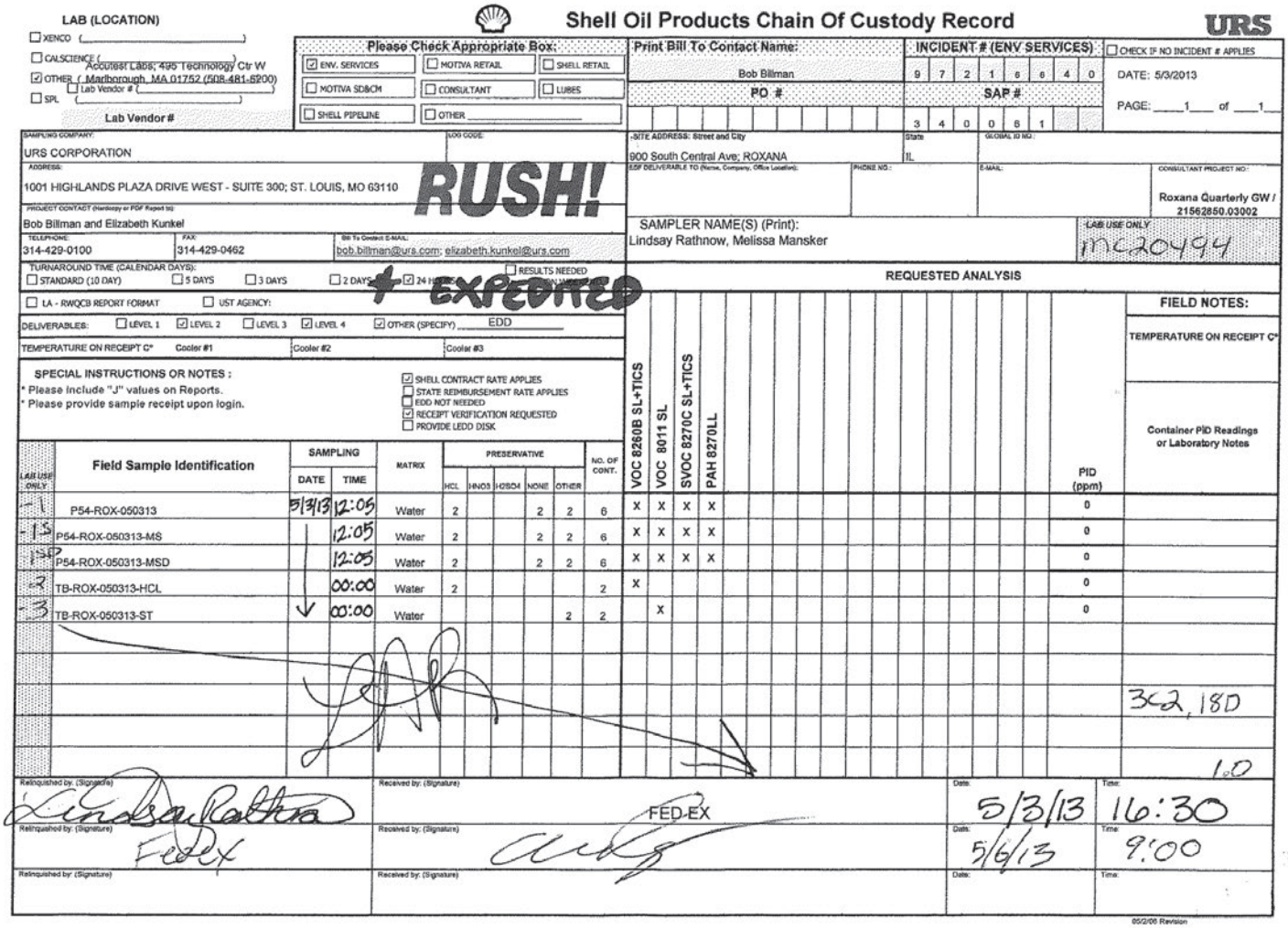
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #: ☐ Lab Vendor # (_____)

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 5/3/2013
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
RUSH!
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Bob Billman and Elizabeth Kunkel
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562850.03002

SAMPLER NAME(S) (Print): Lindsay Rathnow, Melissa Mansker
LAB USE ONLY: MC20494

TURNAROUND TIME (CALENDAR DAYS):
☐ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☑ 24 HOURS + EXPEDITED
☐ RESULTS NEEDED

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B SL+TICS	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	P54-ROX-050313	5/3/13	12:05	Water	2			2	2	6	X	X	X	X	0	
-1S	P54-ROX-050313-MS	↓	12:05	Water	2			2	2	6	X	X	X	X	0	
-1D	P54-ROX-050313-MSD		12:05	Water	2			2	2	6	X	X	X	X	0	
-2	TB-ROX-050313-HCL		00:00	Water	2					2	X				0	
-3	TB-ROX-050313-ST	↓	00:00	Water					2	2		X			0	
																342, 18D
																1.0

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Lindsay Rathnow	FED-EX	5/3/13	16:30
FedEx		5/6/13	9:00

05/2/06 Revision

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MC20494: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC20494 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 5/6/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL ROXANA **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

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MC20494: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC20494

URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC20494-1 Collected: 03-MAY-13 12:05 By: LRMM Received: 06-MAY-13 By: P54-ROX-050313						
MC20494-1	SW846 8260B	08-MAY-13 13:17	AMY			V8260SL+
MC20494-1	SW846 8011	10-MAY-13 01:05	CZ	08-MAY-13	TA	V8011SL
MC20494-1	SW846 8270C	10-MAY-13 01:24	KR	07-MAY-13	AF	AB8270SL+
MC20494-1	SW846 8270C BY SIM	10-MAY-13 19:06	NS	07-MAY-13	FC	B8270SIMSL
MC20494-2 Collected: 03-MAY-13 00:00 By: LRMM Received: 06-MAY-13 By: TB-ROX-050313-HCL						
MC20494-2	SW846 8260B	08-MAY-13 12:51	AMY			V8260SL+
MC20494-3 Collected: 03-MAY-13 00:00 By: LRMM Received: 06-MAY-13 By: TB-ROX-050313-ST						
MC20494-3	SW846 8011	10-MAY-13 01:39	CZ	08-MAY-13	TA	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL
Received: 05/06/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC20494-1.1	Walk In Ref #22	Michael Rolo	05/07/13 08:11	Retrieve from Storage
MC20494-1.1	Michael Rolo		05/08/13 07:19	Depleted
MC20494-1.2	Walk In Ref #22	Michael Rolo	05/07/13 08:11	Retrieve from Storage
MC20494-1.2	Michael Rolo		05/08/13 07:19	Depleted
MC20494-1.3	VOC Ref #1	Amy Min Yang	05/08/13 11:45	Retrieve from Storage
MC20494-1.3	Amy Min Yang	GCMSV	05/08/13 11:45	Load on Instrument
MC20494-1.3	GCMSV	Amy Min Yang	05/09/13 17:18	Unload from Instrument
MC20494-1.3	Amy Min Yang	VOC Ref #1	05/09/13 17:20	Return to Storage
MC20494-1.3	Scott Parsick		07/24/13 13:54	Disposed
MC20494-1.7	Walk In Ref #22	Michael Rolo	05/07/13 08:11	Retrieve from Storage
MC20494-1.7	Michael Rolo		05/08/13 07:19	Depleted
MC20494-1.9	VOC Ref #1	Amy Min Yang	05/08/13 11:45	Retrieve from Storage
MC20494-1.9	Amy Min Yang	GCMSV	05/08/13 11:45	Load on Instrument
MC20494-1.9	GCMSV	Amy Min Yang	05/09/13 17:18	Unload from Instrument
MC20494-1.9	Amy Min Yang	VOC Ref #1	05/09/13 17:20	Return to Storage
MC20494-1.9	Scott Parsick		07/24/13 13:54	Disposed
MC20494-1.10	VOC Ref #1	Amy Min Yang	05/08/13 11:45	Retrieve from Storage
MC20494-1.10	Amy Min Yang	GCMSV	05/08/13 11:45	Load on Instrument
MC20494-1.10	GCMSV	Amy Min Yang	05/09/13 17:18	Unload from Instrument
MC20494-1.10	Amy Min Yang	VOC Ref #1	05/09/13 17:20	Return to Storage
MC20494-1.10	Scott Parsick		07/24/13 13:54	Disposed
MC20494-1.15	VOC Ref #1	Amy Min Yang	05/08/13 11:45	Retrieve from Storage
MC20494-1.15	Amy Min Yang	GCMSV	05/08/13 11:45	Load on Instrument
MC20494-1.15	GCMSV	Amy Min Yang	05/09/13 17:18	Unload from Instrument
MC20494-1.15	Amy Min Yang	VOC Ref #1	05/09/13 17:20	Return to Storage
MC20494-1.15	Scott Parsick		07/24/13 13:54	Disposed
MC20494-2.2	VOC Ref #1	Amy Min Yang	05/08/13 11:45	Retrieve from Storage
MC20494-2.2	Amy Min Yang	GCMSV	05/08/13 11:45	Load on Instrument
MC20494-2.2	GCMSV	Amy Min Yang	05/09/13 17:18	Unload from Instrument
MC20494-2.2	Amy Min Yang	VOC Ref #1	05/09/13 17:20	Return to Storage
MC20494-2.2	Scott Parsick		07/24/13 13:54	Disposed

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-MB	V18598.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.1	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-MB	V18598.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
123-91-1	1,4-Dioxane	ND	25	16	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.74	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.70	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-MB	V18598.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-BS1	V18595.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	63.9	128	70-130
107-02-8	Acrolein	250	334	134* [a]	70-130
107-13-1	Acrylonitrile	50	55.3	111	70-130
71-43-2	Benzene	50	46.6	93	70-130
108-86-1	Bromobenzene	50	51.5	103	70-130
74-97-5	Bromochloromethane	50	45.3	91	70-130
75-27-4	Bromodichloromethane	50	52.9	106	70-130
75-25-2	Bromoform	50	49.6	99	70-130
74-83-9	Bromomethane	50	50.2	100	70-130
78-93-3	2-Butanone (MEK)	50	52.7	105	70-130
104-51-8	n-Butylbenzene	50	45.4	91	70-130
135-98-8	sec-Butylbenzene	50	43.5	87	70-130
98-06-6	tert-Butylbenzene	50	50.7	101	70-130
75-15-0	Carbon disulfide	50	52.1	104	70-130
56-23-5	Carbon tetrachloride	50	48.4	97	70-130
108-90-7	Chlorobenzene	50	44.8	90	70-130
75-00-3	Chloroethane	50	55.3	111	70-130
110-75-8	2-Chloroethyl vinyl ether	50	ND	0* [a]	70-130
67-66-3	Chloroform	50	51.3	103	70-130
74-87-3	Chloromethane	50	59.0	118	70-130
95-49-8	o-Chlorotoluene	50	49.0	98	70-130
106-43-4	p-Chlorotoluene	50	50.3	101	70-130
124-48-1	Dibromochloromethane	50	46.2	92	70-130
95-50-1	1,2-Dichlorobenzene	50	48.0	96	70-130
541-73-1	1,3-Dichlorobenzene	50	47.1	94	70-130
106-46-7	1,4-Dichlorobenzene	50	48.3	97	70-130
75-71-8	Dichlorodifluoromethane	50	39.8	80	70-130
75-34-3	1,1-Dichloroethane	50	52.5	105	70-130
107-06-2	1,2-Dichloroethane	50	59.9	120	70-130
75-35-4	1,1-Dichloroethene	50	50.5	101	70-130
156-59-2	cis-1,2-Dichloroethene	50	44.1	88	70-130
156-60-5	trans-1,2-Dichloroethene	50	52.6	105	70-130
78-87-5	1,2-Dichloropropane	50	52.1	104	70-130
142-28-9	1,3-Dichloropropane	50	51.8	104	70-130
594-20-7	2,2-Dichloropropane	50	54.2	108	70-130
563-58-6	1,1-Dichloropropene	50	53.9	108	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-BS1	V18595.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	49.2	98	70-130
10061-02-6	trans-1,3-Dichloropropene	50	56.2	112	70-130
123-91-1	1,4-Dioxane	250	275	110	70-130
97-63-2	Ethyl methacrylate	50	53.0	106	77-137
100-41-4	Ethylbenzene	50	51.0	102	70-130
87-68-3	Hexachlorobutadiene	50	56.9	114	70-130
591-78-6	2-Hexanone	50	56.5	113	70-130
98-82-8	Isopropylbenzene	50	52.1	104	70-130
99-87-6	p-Isopropyltoluene	50	47.3	95	70-130
1634-04-4	Methyl Tert Butyl Ether	50	60.4	121	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.9	118	70-130
74-95-3	Methylene bromide	50	52.4	105	70-130
75-09-2	Methylene chloride	50	55.8	112	70-130
91-20-3	Naphthalene	50	60.1	120	70-130
103-65-1	n-Propylbenzene	50	51.7	103	70-130
100-42-5	Styrene	50	50.3	101	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	47.3	95	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	57.4	115	70-130
127-18-4	Tetrachloroethene	50	45.9	92	70-130
108-88-3	Toluene	50	51.2	102	70-130
87-61-6	1,2,3-Trichlorobenzene	50	64.4	129	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.1	114	70-130
71-55-6	1,1,1-Trichloroethane	50	46.7	93	70-130
79-00-5	1,1,2-Trichloroethane	50	53.5	107	70-130
79-01-6	Trichloroethene	50	47.0	94	70-130
75-69-4	Trichlorofluoromethane	50	42.8	86	70-130
96-18-4	1,2,3-Trichloropropane	50	53.5	107	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.7	107	70-130
108-67-8	1,3,5-Trimethylbenzene	50	47.9	96	70-130
108-05-4	Vinyl Acetate	50	56.4	113	70-130
75-01-4	Vinyl chloride	50	46.3	93	70-130
	m,p-Xylene	100	99.7	100	70-130
95-47-6	o-Xylene	50	49.8	100	70-130
1330-20-7	Xylene (total)	150	149	99	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV731-BS1	V18595.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	84%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC20494-1MS	V18614.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1MSD	V18615.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1	V18605.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	66.1	132* [a]	50	65.2	130	1	70-130/30
107-02-8	Acrolein	ND		250	309	124	250	307	123	1	70-130/30
107-13-1	Acrylonitrile	ND		50	60.1	120	50	57.1	114	5	70-130/30
71-43-2	Benzene	2.8		50	48.8	92	50	47.6	90	2	70-130/30
108-86-1	Bromobenzene	ND		50	47.7	95	50	47.6	95	0	70-130/30
74-97-5	Bromochloromethane	ND		50	44.4	89	50	43.2	86	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	57.5	115	50	56.0	112	3	70-130/30
75-25-2	Bromoform	ND		50	47.4	95	50	47.1	94	1	70-130/30
74-83-9	Bromomethane	ND		50	50.3	101	50	48.5	97	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	48.4	97	50	49.9	100	3	70-130/30
104-51-8	n-Butylbenzene	ND		50	42.5	85	50	42.3	85	0	70-130/30
135-98-8	sec-Butylbenzene	ND		50	41.4	83	50	40.9	82	1	70-130/30
98-06-6	tert-Butylbenzene	ND		50	50.3	101	50	49.1	98	2	70-130/30
75-15-0	Carbon disulfide	ND		50	49.7	99	50	49.0	98	1	70-130/30
56-23-5	Carbon tetrachloride	ND		50	54.2	108	50	51.4	103	5	70-130/30
108-90-7	Chlorobenzene	ND		50	42.9	86	50	42.0	84	2	70-130/30
75-00-3	Chloroethane	ND		50	55.7	111	50	54.1	108	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	53.2	106	50	51.7	103	3	70-130/30
74-87-3	Chloromethane	ND		50	60.7	121	50	58.0	116	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	46.2	92	50	46.1	92	0	70-130/30
106-43-4	p-Chlorotoluene	ND		50	49.3	99	50	48.2	96	2	70-130/30
124-48-1	Dibromochloromethane	ND		50	45.4	91	50	44.8	90	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	44.3	89	50	44.7	89	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	44.5	89	50	44.4	89	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	45.6	91	50	45.2	90	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	41.7	83	50	38.7	77	7	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	53.0	106	50	52.2	104	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	66.8	134* [a]	50	64.8	130	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	47.8	96	50	47.3	95	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	42.8	86	50	41.8	84	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	50.5	101	50	49.7	99	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	54.1	108	50	53.1	106	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	49.8	100	50	48.6	97	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	56.3	113	50	54.2	108	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	55.8	112	50	53.9	108	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC20494-1MS	V18614.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1MSD	V18615.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1	V18605.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	49.1	98	50	48.5	97	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	58.3	117	50	57.6	115	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	225	90	250	241	96	7	70-130/30
97-63-2	Ethyl methacrylate	ND		50	53.0	106	50	53.0	106	0	72-139/30
100-41-4	Ethylbenzene	ND		50	50.0	100	50	48.0	96	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	49.9	100	50	51.5	103	3	70-130/30
591-78-6	2-Hexanone	ND		50	54.6	109	50	53.7	107	2	70-130/30
98-82-8	Isopropylbenzene	ND		50	48.9	98	50	48.0	96	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	44.5	89	50	44.0	88	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	56.3	113	50	56.8	114	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	60.8	122	50	60.3	121	1	70-130/30
74-95-3	Methylene bromide	ND		50	55.7	111	50	54.3	109	3	70-130/30
75-09-2	Methylene chloride	ND		50	52.5	105	50	52.3	105	0	70-130/30
91-20-3	Naphthalene	ND		50	41.1	82	50	53.4	107	26	70-130/30
103-65-1	n-Propylbenzene	ND		50	49.4	99	50	48.4	97	2	70-130/30
100-42-5	Styrene	ND		50	48.5	97	50	47.0	94	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	46.8	94	50	45.3	91	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.0	106	50	53.7	107	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	43.7	87	50	42.2	84	3	70-130/30
108-88-3	Toluene	ND		50	52.1	104	50	51.1	102	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	44.9	90	50	57.1	114	24	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	45.0	90	50	51.1	102	13	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	49.5	99	50	47.8	96	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	55.6	111	50	54.8	110	1	70-130/30
79-01-6	Trichloroethene	ND		50	47.4	95	50	46.0	92	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	49.1	98	50	45.4	91	8	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	50.5	101	50	50.9	102	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	51.5	103	50	50.9	102	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	45.8	92	50	45.2	90	1	70-130/30
108-05-4	Vinyl Acetate	ND		50	57.9	116	50	56.6	113	2	70-130/30
75-01-4	Vinyl chloride	ND		50	46.1	92	50	43.8	88	5	70-130/30
	m,p-Xylene	ND		100	95.5	96	100	92.2	92	4	70-130/30
95-47-6	o-Xylene	ND		50	46.9	94	50	45.8	92	2	70-130/30
1330-20-7	Xylene (total)	ND		150	142	95	150	138	92	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC20494-1MS	V18614.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1MSD	V18615.D	1	05/08/13	AMY	n/a	n/a	MSV731
MC20494-1	V18605.D	1	05/08/13	AMY	n/a	n/a	MSV731

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC20494-1, MC20494-2

CAS No.	Surrogate Recoveries	MS	MSD	MC20494-1	Limits
1868-53-7	Dibromofluoromethane	89%	88%	93%	70-130%
2037-26-5	Toluene-D8	97%	96%	94%	70-130%
460-00-4	4-Bromofluorobenzene	89%	89%	88%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSV731-CC704	**Injection Date:**	05/08/13
Lab File ID:	V18593.D	**Injection Time:**	07:58
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	633561	6.54	948082	7.73	489340	11.07	552960	13.28	139667	3.49
Upper Limit [a]	1267122	7.04	1896164	8.23	978680	11.57	1105920	13.78	279334	3.99
Lower Limit [b]	316781	6.04	474041	7.23	244670	10.57	276480	12.78	69834	2.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV731-BS	645532	6.55	980598	7.73	502852	11.07	561184	13.28	151060	3.50
MSV731-BS1	669156	6.55	1019049	7.73	508218	11.07	569370	13.28	157829	3.50
MSV731-MB	626242	6.54	970237	7.73	503123	11.07	550001	13.28	151718	3.49
ZZZZZZ	602454	6.55	956213	7.73	495168	11.07	544081	13.28	148732	3.50
ZZZZZZ	596734	6.55	935211	7.73	487198	11.07	533351	13.28	121192	3.50
ZZZZZZ	569923	6.55	895226	7.73	469639	11.07	513364	13.29	124734	3.50
ZZZZZZ	562705	6.55	888291	7.74	467139	11.07	512712	13.29	138159	3.50
ZZZZZZ	578669	6.56	918016	7.74	487429	11.07	533756	13.29	143834	3.50
MC20494-2	521691	6.55	830316	7.73	443250	11.07	478111	13.29	116447	3.49
MC20494-1	516067	6.55	822705	7.74	440267	11.07	481644	13.29	125992	3.50
ZZZZZZ	489027	6.55	781609	7.73	421684	11.07	457168	13.29	128175	3.50
ZZZZZZ	476396	6.55	765518	7.73	412383	11.07	446052	13.29	120766	3.49
ZZZZZZ	481227	6.55	776029	7.74	418916	11.08	453849	13.29	109381	3.50
ZZZZZZ	459765	6.56	745016	7.74	405670	11.08	437823	13.29	102451	3.50
ZZZZZZ	465295	6.56	742346	7.74	405431	11.08	429052	13.29	100337	3.50
ZZZZZZ	477460	6.55	764175	7.74	420307	11.08	451735	13.29	103660	3.49
ZZZZZZ	458852	6.56	742942	7.74	409841	11.08	434599	13.29	103834	3.50
MC20494-1MS	537154	6.55	785466	7.74	424032	11.08	487887	13.29	113185	3.49
MC20494-1MSD	554717	6.55	811637	7.74	440264	11.08	496448	13.29	119877	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC20494-1	V18605.D	93	94	88
MC20494-2	V18604.D	92	94	89
MC20494-1MS	V18614.D	89	97	89
MC20494-1MSD	V18615.D	88	96	89
MSV731-BS1	V18595.D	84	90	89
MSV731-MB	V18598.D	87	92	88

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-MB	W12066.D	1	05/09/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC20494-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.38	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.51	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.57	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.20	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.85	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.92	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.13	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.20	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.65	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.43	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.50	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.50	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.30	ug/l	

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-MB	W12066.D	1	05/09/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC20494-1

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.44	ug/l	
78-59-1	Isophorone	ND	5.0	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.54	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	84%	30-130%
321-60-8	2-Fluorobiphenyl	83%	30-130%
1718-51-0	Terphenyl-d14	94%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32992-MB	I83247.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC20494-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	51%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	91%	30-130%
321-60-8	2-Fluorobiphenyl	75%	30-130%
1718-51-0	Terphenyl-d14	78%	30-130%

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-BS	W12067.D	1	05/09/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC20494-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	72.4	72	30-130
95-57-8	2-Chlorophenol	100	75.3	75	30-130
59-50-7	4-Chloro-3-methyl phenol	100	76.2	76	30-130
120-83-2	2,4-Dichlorophenol	100	85.1	85	30-130
105-67-9	2,4-Dimethylphenol	100	72.8	73	30-130
51-28-5	2,4-Dinitrophenol	100	88.7	89	30-130
534-52-1	4,6-Dinitro-o-cresol	100	81.2	81	30-130
95-48-7	2-Methylphenol	100	65.1	65	30-130
	3&4-Methylphenol	200	120	60	30-130
88-75-5	2-Nitrophenol	100	85.6	86	30-130
100-02-7	4-Nitrophenol	100	38.3	38	30-130
87-86-5	Pentachlorophenol	100	81.9	82	30-130
108-95-2	Phenol	100	36.5	37	30-130
95-95-4	2,4,5-Trichlorophenol	100	87.3	87	30-130
88-06-2	2,4,6-Trichlorophenol	100	88.7	89	30-130
62-53-3	Aniline	50	29.6	59	40-140
101-55-3	4-Bromophenyl phenyl ether	50	46.5	93	40-140
85-68-7	Butyl benzyl phthalate	50	49.2	98	40-140
100-51-6	Benzyl Alcohol	50	34.6	69	40-140
91-58-7	2-Chloronaphthalene	100	89.4	89	40-140
106-47-8	4-Chloroaniline	50	42.1	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	34.9	70	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.3	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	52.5	105	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	48.0	96	40-140
122-66-7	1,2-Diphenylhydrazine	50	44.7	89	40-140
121-14-2	2,4-Dinitrotoluene	100	99.6	100	40-140
606-20-2	2,6-Dinitrotoluene	100	96.3	96	40-140
91-94-1	3,3'-Dichlorobenzidine	50	44.2	88	40-140
132-64-9	Dibenzofuran	50	45.7	91	40-140
84-74-2	Di-n-butyl phthalate	50	47.1	94	40-140
117-84-0	Di-n-octyl phthalate	50	48.8	98	40-140
84-66-2	Diethyl phthalate	50	46.3	93	40-140
131-11-3	Dimethyl phthalate	50	33.7	67	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.7	97	40-140
118-74-1	Hexachlorobenzene	100	102	102	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-BS	W12067.D	1	05/09/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: **Method:** SW846 8270C

MC20494-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	100	55.6	56	40-140
67-72-1	Hexachloroethane	100	67.1	67	40-140
78-59-1	Isophorone	100	90.1	90	40-140
88-74-4	2-Nitroaniline	50	46.1	92	40-140
99-09-2	3-Nitroaniline	50	44.6	89	40-140
100-01-6	4-Nitroaniline	50	46.5	93	40-140
98-95-3	Nitrobenzene	100	91.5	92	40-140
62-75-9	n-Nitrosodimethylamine	50	27.7	55	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	44.5	89	40-140
86-30-6	N-Nitrosodiphenylamine	50	20.3	41	40-140
110-86-1	Pyridine	50	20.4	41	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	35%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	84%	30-130%
321-60-8	2-Fluorobiphenyl	87%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32992-BS	I83248.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC20494-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	40.5	81	40-140
208-96-8	Acenaphthylene	50	30.9	62	40-140
120-12-7	Anthracene	50	42.6	85	40-140
56-55-3	Benzo(a)anthracene	50	44.8	90	40-140
50-32-8	Benzo(a)pyrene	50	35.2	70	40-140
205-99-2	Benzo(b)fluoranthene	50	39.9	80	40-140
191-24-2	Benzo(g,h,i)perylene	50	43.2	86	40-140
207-08-9	Benzo(k)fluoranthene	50	40.3	81	40-140
218-01-9	Chrysene	50	45.3	91	40-140
53-70-3	Dibenzo(a,h)anthracene	50	41.4	83	40-140
206-44-0	Fluoranthene	50	45.4	91	40-140
86-73-7	Fluorene	50	39.3	79	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.5	79	40-140
90-12-0	1-Methylnaphthalene	50	38.2	76	40-140
91-57-6	2-Methylnaphthalene	50	65.2	130	40-140
85-01-8	Phenanthrene	50	43.5	87	40-140
129-00-0	Pyrene	50	45.5	91	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	91%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	82%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-MS	W12078.D	1	05/10/13	KR	05/07/13	OP32991	MSW558
OP32991-MSD	W12079.D	1	05/10/13	KR	05/07/13	OP32991	MSW558
MC20494-1	W12080.D	1	05/10/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: Method: SW846 8270C

MC20494-1

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		112	83.8	75	110	80.9	74	4	30-130/20
95-57-8	2-Chlorophenol	ND		112	73.3	65	110	79.7	73	8	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		112	82.2	73	110	80.9	74	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		112	85.4	76	110	91.6	83	7	30-130/20
105-67-9	2,4-Dimethylphenol	ND		112	65.9	59	110	71.5	65	8	30-130/20
51-28-5	2,4-Dinitrophenol	ND		112	91.2	81	110	90.6	82	1	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		112	89.1	79	110	87.1	79	2	30-130/20
95-48-7	2-Methylphenol	ND		112	64.5	57	110	65.4	60	1	30-130/20
	3&4-Methylphenol	ND		225	122	54	220	128	58	5	30-130/20
88-75-5	2-Nitrophenol	ND		112	83.8	75	110	90.2	82	7	30-130/20
100-02-7	4-Nitrophenol	ND		112	42.8	38	110	38.9	35	10	30-130/20
87-86-5	Pentachlorophenol	ND		112	93.7	83	110	86.0	78	9	30-130/20
108-95-2	Phenol	ND		112	39.2	35	110	37.8	34	4	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		112	94.9	84	110	94.4	86	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		112	93.6	83	110	95.4	87	2	30-130/20
62-53-3	Aniline	ND		56.2	26.7	48	54.9	30.3	55	13	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		56.2	47.3	84	54.9	47.8	87	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		56.2	49.2	88	54.9	50.9	93	3	40-140/20
100-51-6	Benzyl Alcohol	ND		56.2	31.4	56	54.9	34.3	62	9	40-140/20
91-58-7	2-Chloronaphthalene	ND		112	90.4	80	110	93.5	85	3	40-140/20
106-47-8	4-Chloroaniline	ND		56.2	37.4	67	54.9	42.0	76	12	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		56.2	32.4	58	54.9	35.3	64	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		56.2	40.4	72	54.9	44.8	82	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		56.2	48.1	86	54.9	52.9	96	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		56.2	49.8	89	54.9	49.9	91	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		56.2	45.5	81	54.9	46.0	84	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		112	103	92	110	104	95	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		112	98.7	88	110	101	92	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		56.2	41.7	74	54.9	43.3	79	4	40-140/20
132-64-9	Dibenzofuran	ND		56.2	46.9	83	54.9	47.4	86	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		56.2	47.3	84	54.9	47.3	86	0	40-140/20
117-84-0	Di-n-octyl phthalate	ND		56.2	49.1	87	54.9	50.6	92	3	40-140/20
84-66-2	Diethyl phthalate	ND		56.2	49.1	87	54.9	49.9	91	2	40-140/20
131-11-3	Dimethyl phthalate	ND		56.2	47.0	84	54.9	46.8	85	0	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		56.2	48.4	86	54.9	50.4	92	4	40-140/20
118-74-1	Hexachlorobenzene	ND		112	107	95	110	109	99	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32991-MS	W12078.D	1	05/10/13	KR	05/07/13	OP32991	MSW558
OP32991-MSD	W12079.D	1	05/10/13	KR	05/07/13	OP32991	MSW558
MC20494-1	W12080.D	1	05/10/13	KR	05/07/13	OP32991	MSW558

The QC reported here applies to the following samples: Method: SW846 8270C

MC20494-1

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		112	55.8	50	110	64.4	59	14	40-140/20
67-72-1	Hexachloroethane	ND		112	71.4	64	110	82.5	75	14	40-140/20
78-59-1	Isophorone	ND		112	89.1	79	110	94.0	86	5	40-140/20
88-74-4	2-Nitroaniline	ND		56.2	48.6	87	54.9	49.1	89	1	40-140/20
99-09-2	3-Nitroaniline	ND		56.2	44.3	79	54.9	46.1	84	4	40-140/20
100-01-6	4-Nitroaniline	ND		56.2	47.1	84	54.9	47.7	87	1	40-140/20
98-95-3	Nitrobenzene	ND		112	83.1	74	110	93.7	85	12	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		56.2	26.2	47	54.9	28.9	53	10	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		56.2	42.1	75	54.9	45.3	82	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		56.2	20.7	37* [a]	54.9	20.8	38* [a]	0	40-140/20
110-86-1	Pyridine	ND		56.2	18.4	33* [a]	54.9	23.1	42	23* [b]	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC20494-1	Limits
367-12-4	2-Fluorophenol	43%	45%	49%	15-110%
4165-62-2	Phenol-d5	32%	33%	35%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	84%	91%	15-110%
4165-60-0	Nitrobenzene-d5	72%	78%	83%	30-130%
321-60-8	2-Fluorobiphenyl	78%	81%	86%	30-130%
1718-51-0	Terphenyl-d14	84%	85%	96%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32992-MS	I83249.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092
OP32992-MSD	I83250.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092
MC20494-1	I83251.D	1	05/10/13	NS	05/07/13	OP32992	MSI3092

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

MC20494-1

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		56.2	41.4	74	54.9	41.7	76	1	40-140/20
208-96-8	Acenaphthylene	ND		56.2	31.5	56	54.9	31.7	58	1	40-140/20
120-12-7	Anthracene	ND		56.2	42.8	76	54.9	43.7	80	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		56.2	45.1	80	54.9	44.1	80	2	40-140/20
50-32-8	Benzo(a)pyrene	ND		56.2	35.1	62	54.9	35.2	64	0	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		56.2	40.0	71	54.9	38.5	70	4	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		56.2	42.5	76	54.9	43.4	79	2	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		56.2	39.4	70	54.9	40.7	74	3	40-140/20
218-01-9	Chrysene	ND		56.2	44.8	80	54.9	45.2	82	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		56.2	40.8	73	54.9	42.0	76	3	40-140/20
206-44-0	Fluoranthene	ND		56.2	45.5	81	54.9	45.1	82	1	40-140/20
86-73-7	Fluorene	ND		56.2	38.9	69	54.9	40.1	73	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		56.2	38.9	69	54.9	39.8	72	2	40-140/20
90-12-0	1-Methylnaphthalene	ND		56.2	39.0	69	54.9	39.9	73	2	40-140/20
91-57-6	2-Methylnaphthalene	ND		56.2	67.9	121	54.9	70.4	128	4	40-140/20
85-01-8	Phenanthrene	ND		56.2	43.8	78	54.9	43.9	80	0	40-140/20
129-00-0	Pyrene	ND		56.2	45.4	81	54.9	44.8	82	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC20494-1	Limits
367-12-4	2-Fluorophenol	46%	48%	51%	15-110%
4165-62-2	Phenol-d5	33%	35%	38%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	75%	77%	15-110%
4165-60-0	Nitrobenzene-d5	78%	86%	88%	30-130%
321-60-8	2-Fluorobiphenyl	64%	69%	76%	30-130%
1718-51-0	Terphenyl-d14	72%	70%	77%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSI3092-CC3044	**Injection Date:**	05/10/13
Lab File ID:	I83231.D	**Injection Time:**	11:20
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	173884	3.34	471218	4.30	233484	5.70	430749	6.93	318977	9.65	599678	11.04
Upper Limit [a]	347768	3.84	942436	4.80	466968	6.20	861498	7.43	637954	10.15	1199356	11.54
Lower Limit [b]	86942	2.84	235609	3.80	116742	5.20	215375	6.43	159489	9.15	299839	10.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	176173	3.34	487308	4.30	236148	5.70	414973	6.93	318731	9.65	597182	11.04
ZZZZZZ	165395	3.34	455754	4.30	226482	5.70	401437	6.93	301902	9.65	577756	11.04
ZZZZZZ	146608	3.33	404707	4.30	206827	5.69	367900	6.92	276855	9.64	510124	11.04
ZZZZZZ	168670	3.34	468756	4.30	235711	5.70	408486	6.92	303096	9.64	566438	11.04
ZZZZZZ	171361	3.34	462326	4.30	258797	5.70	412778	6.93	306506	9.65	571525	11.05
ZZZZZZ	151114	3.34	414442	4.30	209175	5.70	368714	6.93	272138	9.65	512660	11.04
ZZZZZZ	142578	3.34	389243	4.30	197056	5.70	348174	6.92	259559	9.64	488941	11.04
ZZZZZZ	157643	3.34	441168	4.30	219679	5.70	392709	6.92	293258	9.64	544795	11.04
ZZZZZZ	140217	3.34	381087	4.30	200857	5.70	360360	6.92	273738	9.64	516947	11.04
OP33007-MB	184352	3.34	513104	4.30	266011	5.69	473449	6.93	366010	9.65	649079	11.04
OP33007-BS	166240	3.34	461986	4.30	239504	5.70	439385	6.93	337296	9.65	604473	11.05
ZZZZZZ	157303	3.34	435745	4.30	222354	5.69	400406	6.92	303283	9.64	565128	11.04
OP32992-MB	210696	3.33	580823	4.30	302077	5.69	544034	6.93	427628	9.65	786242	11.04
OP32992-BS	221174	3.33	597822	4.31	313170	5.70	558072	6.94	440143	9.65	765345	11.04
OP32992-MS	199629	3.33	543741	4.30	286704	5.69	515459	6.93	396752	9.65	697685	11.04
OP32992-MSD	247226	3.34	665032	4.31	350263	5.70	630680	6.94	479325	9.66	839577	11.05
MC20494-1	183373	3.34	507707	4.30	257986	5.70	456310	6.92	339154	9.65	627500	11.04
ZZZZZZ	148475	3.34	411213	4.30	215268	5.69	390300	6.92	300544	9.64	546436	11.04
OP33014-MB	152380	3.34	426642	4.30	212692	5.69	373779	6.92	279254	9.64	521481	11.04
OP33014-BS	146628	3.34	405880	4.30	210607	5.70	374136	6.93	288431	9.65	518300	11.04
OP33014-BSD	155953	3.34	429043	4.30	220517	5.70	393611	6.93	299278	9.65	528472	11.04
OP33014-MS	158400	3.34	435040	4.30	222041	5.70	403378	6.93	303284	9.65	524957	11.04
OP33014-MSD	188236	3.33	500931	4.30	257566	5.69	458743	6.93	348051	9.65	608918	11.04
ZZZZZZ	179876	3.34	486833	4.30	263924	5.69	423762	6.93	330062	9.65	600127	11.04

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW558-CC546	**Injection Date:**	05/09/13
Lab File ID:	W12062.D	**Injection Time:**	18:14
Instrument ID:	GCMSW	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	59794	3.31	226773	4.35	146780	5.85	263603	7.14	325653	9.97	306922	11.52
Upper Limit [a]	119588	3.81	453546	4.85	293560	6.35	527206	7.64	651306	10.47	613844	12.02
Lower Limit [b]	29897	2.81	113387	3.85	73390	5.35	131802	6.64	162827	9.47	153461	11.02
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP32879-MB	63086	3.31	230032	4.35	148468	5.85	266822	7.14	312222	9.96	293835	11.52
OP32879-BS	68584	3.31	255784	4.35	165070	5.85	289845	7.14	353238	9.97	324517	11.52
OP32991-MB	80758	3.31	297409	4.35	195312	5.85	346672	7.14	417880	9.96	398542	11.52
OP32991-BS	81556	3.31	299503	4.35	195635	5.85	350494	7.15	438351	9.97	408787	11.52
OP32974-MB	85233	3.31	316076	4.35	204577	5.85	370231	7.14	436662	9.96	419476	11.52
OP32974-BS	75947	3.31	282990	4.35	182850	5.85	332862	7.14	415941	9.97	385345	11.52
OP32904-MB	68024	3.31	264305	4.35	174293	5.85	314312	7.14	380303	9.96	357394	11.52
OP32904-BS	65574	3.31	258819	4.35	171209	5.85	303902	7.14	381131	9.97	343987	11.52
OP32879-MS	74962	3.31	278907	4.35	181080	5.85	323970	7.14	395505	9.97	357440	11.52
OP32879-MSD	69687	3.31	259783	4.35	170134	5.85	304050	7.14	380220	9.96	350143	11.52
MC20133-9	70946	3.31	266004	4.35	172785	5.85	310899	7.14	374563	9.96	362667	11.52
ZZZZZZ	69793	3.31	260192	4.35	168381	5.85	301792	7.14	364972	9.96	354185	11.52
ZZZZZZ	69964	3.31	261539	4.35	169728	5.85	305399	7.14	365377	9.96	351862	11.52
ZZZZZZ	77715	3.31	292254	4.35	194151	5.85	349257	7.14	416209	9.96	402161	11.52
OP32991-MS	82274	3.31	303972	4.35	198548	5.85	356442	7.15	455801	9.97	424037	11.52
OP32991-MSD	82995	3.31	303786	4.35	198872	5.85	356180	7.15	445162	9.97	423031	11.52
MC20494-1	82984	3.31	306765	4.35	201779	5.85	362414	7.14	434377	9.97	438197	11.52
OP32974-MS	89422	3.31	332856	4.35	217370	5.85	391302	7.15	487773	9.97	449126	11.52
OP32974-MSD	82890	3.31	310139	4.35	202940	5.85	368573	7.15	465919	9.97	429554	11.52
MC20500-11	90281	3.31	336908	4.35	218897	5.85	393283	7.14	472866	9.97	457336	11.52
ZZZZZZ	81462	3.31	290988	4.35	192544	5.85	341127	7.14	419470	9.97	402625	11.52
OP32904-MS	75843	3.31	287221	4.35	186448	5.85	330763	7.15	395522	9.97	361328	11.52
OP32904-MSD	69987	3.31	267628	4.35	172310	5.85	307805	7.15	375276	9.97	340195	11.52
MC20256-3	80784	3.31	302148	4.35	200555	5.85	354095	7.14	427726	9.97	394145	11.52
ZZZZZZ	79452	3.31	301811	4.35	198224	5.85	349219	7.14	422496	9.96	400416	11.52
ZZZZZZ	87716	3.31	326407	4.35	212712	5.85	383882	7.15	458578	9.97	434319	11.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	MSW558-CC546	**Injection Date:**	05/09/13
Lab File ID:	W12062.D	**Injection Time:**	18:14
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC20494-1	W12080.D	49	35	91	83	86	96
OP32991-BS	W12067.D	50	35	88	84	87	93
OP32991-MB	W12066.D	49	34	85	84	83	94
OP32991-MS	W12078.D	43	32	84	72	78	84
OP32991-MSD	W12079.D	45	33	84	78	81	85

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC20494-1	I83251.D	51	38	77	88	76	77
OP32992-BS	I83248.D	53	37	81	91	72	82
OP32992-MB	I83247.D	51	37	76	91	75	78
OP32992-MS	I83249.D	46	33	72	78	64	72
OP32992-MSD	I83250.D	48	35	75	86	69	70

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33031-MB	BB47695.D	1	05/09/13	CZ	05/08/13	OP33031	GBB2861

The QC reported here applies to the following samples: **Method:** SW846 8011

MC20494-1, MC20494-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	93%	36-173%
460-00-4	Bromofluorobenzene (S)	101%	36-173%

Blank Spike Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33031-BS	BB47696.D	1	05/09/13	CZ	05/08/13	OP33031	GBB2861

The QC reported here applies to the following samples: **Method:** SW846 8011

MC20494-1, MC20494-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.062	87	60-140
106-93-4	1,2-Dibromoethane	0.071	0.074	104	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	88%	36-173%
460-00-4	Bromofluorobenzene (S)	101%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP33031-MS	BB47697.D	1	05/09/13	CZ	05/08/13	OP33031	GBB2861
OP33031-MSD	BB47698.D	1	05/10/13	CZ	05/08/13	OP33031	GBB2861
MC20494-1	BB47699.D	1	05/10/13	CZ	05/08/13	OP33031	GBB2861

The QC reported here applies to the following samples: **Method:** SW846 8011

MC20494-1, MC20494-3

CAS No.	Compound	MC20494-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0869	0.063	73	0.0857	0.059	69	7	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0869	0.086	99	0.0857	0.086	100	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC20494-1	Limits
460-00-4	Bromofluorobenzene (S)	77%	78%	82%	36-173%
460-00-4	Bromofluorobenzene (S)	81%	86%	90%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC20494-1	BB47699.D	82	90
MC20494-3	BB47700.D	80	86
OP33031-BS	BB47696.D	88	101
OP33031-MB	BB47695.D	93	101
OP33031-MS	BB47697.D	77	81
OP33031-MSD	BB47698.D	78	86

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC20494
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 2Q13 GW/ 21562850.03002 900 South Central Avenue, Roxana, IL

Check Std:	GBB2861-ICC2861	**Injection Date:**	05/09/13
Lab File ID:	BB47690.D	**Injection Time:**	20:19
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.92	5.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB47693A.D	05/09/13	21:49	4.93	5.40
ZZZZZZ	BB47693B.D	05/09/13	21:49	4.93	5.40
OP33031-MB	BB47695.D	05/09/13	22:52	4.92	5.40
OP33032-MB	BB47695A.D	05/09/13	22:52	4.92	5.40
OP33032-BS	BB47696A.D	05/09/13	23:24	4.92	5.40
OP33031-BS	BB47696.D	05/09/13	23:24	4.92	5.40
OP33031-MS	BB47697.D	05/09/13	23:58	4.92	5.40
OP33031-MSD	BB47698.D	05/10/13	00:32	4.92	5.40
MC20494-1	BB47699.D	05/10/13	01:05	4.92	5.40
MC20494-3	BB47700.D	05/10/13	01:39	4.92	5.40
ZZZZZZ	BB47701.D	05/10/13	02:12	4.92	5.40
ZZZZZZ	BB47702.D	05/10/13	02:45	4.92	5.40
OP33032-MS	BB47703.D	05/10/13	03:18	4.92	5.40
OP33032-MSD	BB47704.D	05/10/13	03:51	4.92	5.40

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1