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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 –1st Quarter 2015
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)

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
Lori Littrell, Atlantic Richfield Company
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)

1Q14, 2Q14, 3Q14, 4Q14, 1Q15, & 2Q15 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 8260C	P92C_32_120314	MC35540-1	12/03/2014	2-Chloroethyl vinyl ether	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P92C_32_120314	MC35540-1	12/03/2014	2,2-Dichloropropane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P92C_50_120314	MC35540-2	12/03/2014	Vinyl Acetate	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P92C_50_120314	MC35540-2	12/03/2014	Vinyl chloride	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P92C_93_120314	MC35540-3	12/03/2014	2-Chloroethyl vinyl ether	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P92C_93_120314	MC35540-3	12/03/2014	2,2-Dichloropropane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-50-120414	MC35568-1	12/04/2014	Vinyl Acetate	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-50-120414	MC35568-1	12/04/2014	Vinyl chloride	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-50-120414-DUP	MC35568-2	12/04/2014	Vinyl Acetate	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-50-120414-DUP	MC35568-2	12/04/2014	Vinyl chloride	ND	ND		mg/kg	Ana: Continuing Calibration 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 8260C	P93C-94-120414	MC35568-3	12/04/2014	Acrolein	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-94-120414	MC35568-3	12/04/2014	Bromomethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-94-120414	MC35568-3	12/04/2014	2,2-Dichloropropane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-94-120414	MC35568-3	12/04/2014	Trichlorofluoromethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-40-120414	MC35568-4	12/04/2014	Acrolein	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-40-120414	MC35568-4	12/04/2014	Bromomethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-40-120414	MC35568-4	12/04/2014	2,2-Dichloropropane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-40-120414	MC35568-4	12/04/2014	Trichlorofluoromethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-40-120814	MC35641-1	12/08/2014	Acrolein	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-50-120814	MC35641-2	12/08/2014	Bromomethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-50-120814	MC35641-2	12/08/2014	Chloroethane	ND	ND		mg/kg	Ana: Continuing Calibration 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 8260C	P57-50-120814	MC35641-2	12/08/2014	Chloromethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-50-120814	MC35641-2	12/08/2014	Dichlorodifluoromethane	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-20-120814	MC35641-3	12/08/2014	Acrolein	ND	ND		mg/kg	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW26-ROX-011215	MC36343-2	01/12/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW26-ROX-011215	MC36343-2	01/12/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW26-ROX-011215	MC36343-2	01/12/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW26-ROX-011215	MC36343-2	01/12/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW26-ROX-011215	MC36343-2	01/12/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-011215	MC36343-3	01/12/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-011215	MC36343-3	01/12/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-011215	MC36343-3	01/12/2015	Chloromethane	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 8260C	MW1-ROX-011215	MC36343-3	01/12/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-011215	MC36343-3	01/12/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-011215	MC36343-4	01/12/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-011215	MC36343-4	01/12/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-011215	MC36343-4	01/12/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-011215	MC36343-4	01/12/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-011215	MC36343-4	01/12/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-011315	MC36376-2	01/13/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-011315	MC36376-2	01/13/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-011315	MC36376-2	01/13/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-011315	MC36376-2	01/13/2015	1,1-Dichloroethene	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 8260C	MW11-ROX-011315	MC36376-2	01/13/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-011315	MC36376-3	01/13/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-011315	MC36376-3	01/13/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-011315	MC36376-3	01/13/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-011315	MC36376-3	01/13/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-011315	MC36376-3	01/13/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-011315	MC36376-4	01/13/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-011315	MC36376-4	01/13/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-011315	MC36376-4	01/13/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-011315	MC36376-4	01/13/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-011315	MC36376-4	01/13/2015	Vinyl chloride	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 8260C	MW16-ROX-011315	MC36376-5	01/13/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-011315	MC36376-5	01/13/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-011315	MC36376-5	01/13/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-011315	MC36376-5	01/13/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-011315	MC36376-5	01/13/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-011315	MC36376-6	01/13/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-011315	MC36376-6	01/13/2015	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-011315	MC36376-6	01/13/2015	Chloromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-011315	MC36376-6	01/13/2015	1,1-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-011315	MC36376-6	01/13/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-011415	MC36413-1	01/14/2015	Acrolein	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 8260C	MW6D-ROX-011415	MC36413-1	01/14/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-011415-DUP	MC36413-2	01/14/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-011415-DUP	MC36413-2	01/14/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-011415	MC36413-3	01/14/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-011415	MC36413-3	01/14/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-011415	MC36413-4	01/14/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-011415	MC36413-4	01/14/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011415	MC36413-6	01/14/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-011415	MC36413-6	01/14/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-011415	MC36413-7	01/14/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-011415	MC36413-7	01/14/2015	1,4-Dioxane	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 8260C	MW3-ROX-011515	MC36440-1	01/15/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-011515	MC36440-1	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW27-ROX-011515	MC36440-2	01/15/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW27-ROX-011515	MC36440-2	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW28-ROX-011515	MC36440-3	01/15/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW28-ROX-011515	MC36440-3	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST3MW-ROX-011515	MC36440-4	01/15/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST3MW-ROX-011515	MC36440-4	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4PZC-ROX-011515	MC36440-5	01/15/2015	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4PZC-ROX-011515	MC36440-5	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW5-ROX-011515	MC36440-7	01/15/2015	Acrolein	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 8260C	MW5-ROX-011515	MC36440-7	01/15/2015	1,4-Dioxane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW2-ROX-011615	MC36465-1	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW22-ROX-011615	MC36465-2	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW13-ROX-011615	MC36465-3	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW14-ROX-011615	MC36465-4	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P66-ROX-011615	MC36465-5	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P66-ROX-011615-DUP	MC36465-6	01/16/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P74-ROX-011915	MC36503-1	01/19/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-ROX-011915	MC36503-3	01/19/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P56-ROX-011915	MC36503-4	01/19/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	T12-ROX-011915	MC36503-5	01/19/2015	trans-1,2-Dichloroethene	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 8260C	P59-ROX-011915	MC36503-6	01/19/2015	trans-1,2-Dichloroethene	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW23-ROX-011915 (4-6')	MC36526-1	01/19/2015	2,2-Dichloropropane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6')	MC36526-1	01/19/2015	1,4-Dioxane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6')	MC36526-1	01/19/2015	Ethyl methacrylate	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6')	MC36526-1	01/19/2015	4-Methyl-2-pentanone (MIBK)	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-012015 (32-36')	MC36526-2	01/20/2015	2,2-Dichloropropane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-012015 (32-36')	MC36526-2	01/20/2015	1,4-Dioxane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-012015 (32-36')	MC36526-2	01/20/2015	Ethyl methacrylate	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-012015 (32-36')	MC36526-2	01/20/2015	4-Methyl-2-pentanone (MIBK)	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6') DUP	MC36526-7	01/19/2015	2,2-Dichloropropane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6') DUP	MC36526-7	01/19/2015	1,4-Dioxane	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW23-ROX-011915 (4-6') DUP	MC36526-7	01/19/2015	Ethyl methacrylate	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW23-ROX-011915 (4-6') DUP	MC36526-7	01/19/2015	4-Methyl-2-pentanone (MIBK)	ND	ND		mg/kg	Ana: CCV outside criteria. Sample results may be low biased.	UJ
SW846 8260C	MW8-ROX-012215	MC36583-1	01/22/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-012215	MC36583-1	01/22/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW25-ROX-012215	MC36583-2	01/22/2015	Acetone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW25-ROX-012215	MC36583-2	01/22/2015	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-012215	MC36583-3	01/22/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-012215	MC36583-3	01/22/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-012215-DUP	MC36583-6	01/22/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW7-ROX-012215-DUP	MC36583-6	01/22/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012315	MC36601-1	01/23/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012315	MC36601-1	01/23/2015	Vinyl chloride	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 8260C	P93B-ROX-012315-DUP	MC36601-2	01/23/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93B-ROX-012315-DUP	MC36601-2	01/23/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93D-ROX-012315	MC36601-3	01/23/2015	Acetone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93D-ROX-012315	MC36601-3	01/23/2015	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-012315	MC36601-4	01/23/2015	Acetone	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-012315	MC36601-4	01/23/2015	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-012315	MC36601-5	01/23/2015	Bromomethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-012315	MC36601-5	01/23/2015	Vinyl chloride	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

LABORATORY QUALIFIERS:

ND = Not detected.

AECOM QUALIFIERS:

UJ = Estimated nondetect.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-050112	5/1/2012	48.80 - 58.80	39.09	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	0.0004 J	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00097 U	<0.002	<0.0005
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.01 UJ	0.00066	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW1-ROX-011215	1/12/2015	48.80 - 58.80	42.73	NE	0.035	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-02	MW2-ROX-050112	5/1/2012	49.87 - 59.87	40.25	NE	<0.025	0.0145	<0.025		<0.025	<0.025	0.0068 J	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	0.008 J	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005	0.01	<0.005		<0.005	<0.005	0.0078	0.001 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025 UJ	0.0142	<0.025		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	0.0172 J	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01	0.0192	<0.01		<0.01	0.0176 J	0.0077 J	0.002 J	<0.01	<0.002	0.0083	<0.002	<0.004	<0.01	0.0094 J	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.05	0.0174	<0.025		<0.025	0.0191 J	0.0085 J	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	0.0101 J	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.01 UJ	0.006	<0.005		<0.005 UJ	<0.005	0.0073	0.0029 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0075	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.01	0.0139	<0.005		0.0133	<0.005	0.0082	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0104	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.01	0.0238	<0.005		<0.005	0.0254	0.0096	0.0015 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0106	<0.001	<0.001	<0.001	0.0043	<0.002	<0.002	<0.0005
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.01	0.0214	<0.005		0.0136	0.0208	0.0077	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.01	0.0102 J	<0.005		<0.005	0.0194 J	0.0073 J	0.0013 J J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.008 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.02 UJ	0.0132	<0.01		<0.01	0.0145	0.0057 J	0.0011 J	<0.01 UJ	<0.002 UJ	<0.004	<0.002	<0.004	<0.01	0.0063 J	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	MW2-ROX-011615	1/16/2015	49.87 - 59.87	44.1	NE	<0.01	0.0278	0.00045 J		<0.005	0.0185	0.0091	0.0016 J	<0.005	<0.001	<0.002	<0.001	0.0052	<0.005	0.0109	0.0008 J	0.00084 J	0.00099 J	<0.001	<0.002	<0.002	<0.0005
MW-03	MW3-ROX-043012	4/30/2012	34.67 - 44.67	26.19	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005 UJ	0.0089	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005 UJ	0.0017	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0014	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005 UJ	0.008	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.01 UJ	0.0059	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.01	0.00057	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.01	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.01 UJ	0.00062	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.01 UJ	0.0005	<0.005		<0.005	<0.005	<0.005	0.00083 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW3-ROX-011515	1/15/2015	34.67 - 44.67	29.65	NE	<0.01	0.00037 J	<0.005		<0.005	<0.005	0.00049 J	0.0009 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-04	MW4-ROX-050312	5/3/2012	46.06 - 56.06	37.45	NE	<0.005	0.0941	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.063 U	0.0933	<0.005		<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005	0.191	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005	0.199	<0.005		<0.005	0.0014 J	0.0017 J	0.002 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01 UJ	0.354	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.004	<0.002	<0.004 UJ	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005	9.04 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	21.4	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.02	64.2	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.01	72.9	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.01	12.2	<0.005		<0.005	<0.005	0.0016 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.1	1.7	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.01	2.01	<0.005		<0.005	0.00058 J	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.01	0.553	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.01	1.86	<0.005		<0.005	<0.005	<0.05	<0.05	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.05	0.815	<0.025		<0.025 UJ	<0.025	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	MW4-ROX-012115	1/21/2015	46.06 - 56.06	41.27	NE	<0.01	0.0902	<0.005		<0.005	<0.005	<0.005	0.00065 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-05	MW5-ROX-050312	5/3/2012	33.97 - 43.97	25.89	NE	<0.005	0.0532	<0.005		<0.005	<0.005	0.0029 J	0.0073	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	0.0925	<0.005		<0.005	<0.005	0.0015 J	0.007	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.00099 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005 UJ	0.0628	<0.005		<0.005	<0.005	<0.005	0.0059	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005	0.0072	<0.005		<0.005	<0.005	0.0016 J	0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	0.0018	<0.005		<0.01	<0.005	0.0018 J	0.0063	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.01	0.0075	<0.005		<0.005	<0.005	<0.005	0.0085	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.01	0.0016	<0.005		<0.005	<0.005	<0.005	0.0064	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.01	0.002	<0.005		<0.005	<0.005	0.002 J	0.0064	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-041014	4/10/2014		30.09	NE	0.021 J	0.0037	<0.005		<0.005	<0.005	0.0017 J	0.0062	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.01	0.001	<0.005		<0.005	<0.005	0.0011 J	0.0046 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.01 UJ	0.028	<0.005		<0.005	<0.005	0.00083 J	0.0049 J	<0.005 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW5-ROX-011515	1/15/2015	33.97 - 43.97	29.34	NE	<0.01	0.003	<0.005		<0.005	<0.005	0.0014 J	0.0059	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-06A	MW6A-ROX-050212	5/2/2012	34.83 - 44.83	27.77	NE	<0.005	0.00077	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.0016	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.12 UJ	0.00073	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005	0.0276	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005 UJ	0.0017	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-040814	4/8/2014		32.16	NE	0.11 J	0.0011	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	0.116 J	0.001	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6A-ROX-011415	1/14/2015	34.83 - 44.83	31.54	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-06B	MW6B-ROX-050212	5/2/2012	64.05 - 69.05	27.82	NE	<0.005	0.00086	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005 UJ	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005 UJ	0.00043 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.01 UJ	0.0009	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6B-ROX-011415	1/14/2015	64.05 - 69.05	31.59	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-06C	MW6C-ROX-050212	5/2/2012	84.95 - 89.95	27.62	NE	<0.005	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.003 UJ	0.00061	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005 UJ	0.00062	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.01 UJ	0.0021	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6C-ROX-011415	1/14/2015	84.95 - 89.95	31.41	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06D	MW6D-ROX-050212	5/2/2012	104.72 - 109.72	27.45	NE	<0.005	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005 UJ	0.00068	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005 UJ	0.00055	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005 UJ	0.00055	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.01 UJ	0.0064	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-011415	1/14/2015	104.72 - 109.72	31.26	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-07	MW7-ROX-050412	5/4/2012	42.92 - 52.92	39.19	NE	<0.5	738	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	MW7-ROX-080712	8/7/2012		39.50	NE	0.199 J	591 J	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	MW7-ROX-103012	10/30/2012		41.23	NE	<10 UJ	833	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4 UJ	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10 UJ	863	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4 UJ	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW7-ROX-011513	1/15/2013		42.21	NE	<20	1230	<20		<20	<20	<20	<20	<20	<4	<8	<4	<8	<20	<20	<4	<4	<4	<4	<8	<8	<2
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	1320	<20		<20	<20	<20	<20	<20	<4	<8	<4	<8	<20	<20	<4	<4	<4	<4	<8	<8	<2
	MW7-ROX-041013	4/10/2013		42.70	NE	<20	475	<10		<20	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<20	499	<10		<20	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.01	1000 J	<0.005		<0.005	<0.005	0.0023 J J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0016 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	MW7-ROX-101613	10/16/2013		40.64	NE	<20	553	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW7-ROX-013014	1/30/2014		42.94	NE	<25	1490	<13		<13	<13	<13	<13	<13 UJ	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3
	MW7-ROX-041614	4/16/2014		43.79	NE	<50	1390	<25		<25	<25	<25	<25	<25	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.01	1270	<0.005		<0.005	0.0036 J J	0.0022 J J	0.0022 J J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.01	1370	<0.005		<0.005	0.0034 J J	0.0023 J J	0.0022 J J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW7-ROX-101614	10/16/2014		41.31	NE	<50	1130	<25		<25 UJ	<25	<25	<25	<25	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<50	984	<25		<25 UJ	<25	<25	<25	<25	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5
	MW7-ROX-012215	1/22/2015	42.92 - 52.92	43.45	NE	<10	821	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<10	799	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
MW-08	MW8-ROX-050412	5/4/2012	33.60 - 43.60	30.21	NE	<0.5	1070	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	1040	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.378 UJ	397 J	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	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	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	MW8-ROX-103012	10/30/2012		32.32	NE	<5 UJ	523	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2 UJ	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	MW8-ROX-011513	1/15/2013		33.30	NE	<10	1120 J	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW8-ROX-041013	4/10/2013		33.77	NE	<50	969	<25		<50	<25	<25	<25	<25	<5	<10	<5	<10	<25	<25	<5	<5	<5	<5	<10	<10	<2.5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.008 U	532	<0.005		<0.005	<0.005	0.0033 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.01	494	<0.005		<0.005	<0.005	0.0031 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	MW8-ROX-101613	10/16/2013		31.59	NE	<20	360	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<20	351	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW8-ROX-013014	1/30/2014		34.02	NE	<25	721	<13		<13	<13	<13	<13	<13 UJ	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<25	748	<13		<13	<13	<13	<13	<13 UJ	<2.5	<5	<2.5	<5	<13	<13	<2.5	<2.5	<2.5	<2.5	<5	<5	<1.3
	MW8-ROX-041614	4/16/2014		34.73	NE	<20	862	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<20	1060	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.01 UJ	276	<0.005 UJ		<0.005 UJ	0.0069 J	0.0042 J J	0.0028 J J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0032 J J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	MW8-ROX-101614	10/16/2014		32.23	NE	<10	486	<5		<5 UJ	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	MW8-ROX-012215	1/22/2015	33.60 - 43.60	34.22	NE	<10	764	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-09	MW9-ROX-050312	5/3/2012	46.45 - 56.45	41.03	NE	<0.005	0.001	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005 UJ	0.00058	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.123 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.0005	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.0015 U	<0.002	<0.0005
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.01 UJ	0.0044	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW9-ROX-011315	1/13/2015	46.45 - 56.45	44.21	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-10	MW10-ROX-050112	5/1/2012	44.43 - 54.43	40.86	NE	<0.005	0.00079	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005 UJ	0.00058	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005	<0.001	<0.002	0.00095 J	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.101 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	0.0074	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.025	0.003	<0.005		<0.0051 U	<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	<0.005	<0.005	<0.005	<0.001
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	0.00067	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.0016 U	<0.002	<0.0005
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-011514	1/15/2014		44.42	NE	0.0174	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-040714	4/7/2014		45.00	NE	0.0684 J	0.0018	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	0.0032	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW10-ROX-011315	1/13/2015	44.43 - 54.43	44.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-11	MW11-ROX-043012	4/30/2012	41.66 - 51.66	38.66	NE	<0.005	0.00087	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005 UJ	0.00073	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005 UJ	<0.00065 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001 U	<0.002	<0.0005
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.01 UJ	0.0014	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW11-ROX-011315	1/13/2015	41.66 - 51.66	41.93	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-12	MW12-ROX-043012	4/30/2012	41.92 - 51.92	38.98	NE	<0.005	0.00066	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005 UJ	0.0013	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.35 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005 UJ	<0.00088 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW12-ROX-011215	1/12/2015	41.92 - 51.92	42.33	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-13	MW13-ROX-050712	5/7/2012	25.57 - 35.57	25.79	NE	<0.005	0.009	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	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	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.0048	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005	0.0067 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0319 UJ	0.0102 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.01	0.00058	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.01 UJ	0.00037 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW13-ROX-011615	1/16/2015	25.57 - 35.57	29.09	NE	<0.01	0.00046 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-14	MW14-ROX-051012	5/10/2012	33.42 - 43.42	NM	NE	<0.005	0.009	<0.005		<0.005	0.0014 J	0.0026 J	0.0012 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	0.0131	<0.005		<0.005	0.0015 J	0.0027 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005 UJ	0.00093	<0.005		<0.005	<0.005	0.0028 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	0.0017	<0.005		<0.005	0.0014 J	0.0032 J	0.0011 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.01	0.0125 J	<0.005		<0.01	0.0021 J	0.0048 J	0.0016 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.01	0.00064	<0.005		<0.005	0.00066 J	0.002 J	0.0013 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	0.0013 J	0.0012 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.01	0.0017	<0.005		<0.005	<0.005	<0.005	0.00046 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	0.00042 J	0.00047 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.01 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	0.00063 J	<0.005	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW14-ROX-011615	1/16/2015	33.42 - 43.42	33.58	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	0.00053 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	0.00057 J	<0.005		0.0029 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005 UJ	<0.00058 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.01	<0.00062 U	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.01	0.00034 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW16-ROX-011315	1/13/2015	37.06 - 47.06	43.59	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	2.12	<0.25		<0.295 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	2.09	<0.25		<0.31 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005 UJ	1.5	<0.005		<0.005	0.0413 J	0.0142 J	0.0171 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0122 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.01 UJ	1.19	<0.005		<0.005 UJ	<0.005	0.0116	0.0142	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.01 UJ	1.11	<0.005		<0.005 UJ	<0.005	0.0116	0.0148	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.01	1.33	<0.005		<0.005	0.0286	0.012	0.0167	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.01	1.39	<0.005		<0.005	0.0276	0.0118	0.0163	<0.005	<0.001	0.0018 J	<0.001	<0.002	<0.005	0.0095	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.01	1.47	<0.005		0.0804	0.0357	0.0128	0.0147	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	0.0028	<0.002	<0.002	<0.0005
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.01	1.58	<0.005		0.0815	0.0355	0.0127	0.0146	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0911 J	1.7	<0.005		0.0334	0.0331	0.0128	0.0152	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.01 UJ	1.56	<0.005		0.0287	0.0319	0.0123	0.0144	<0.005	0.00046 J	<0.002	<0.001	<0.002	<0.005	0.0089	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.01	1.74	<0.005		0.0185 J	0.0349 J	0.013 J	0.0137 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0085 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.1 UJ	1.62	<0.05		<0.05	0.0165 J	0.0066 J	0.0096 J	<0.05 UJ	<0.01 UJ	<0.02	<0.01	<0.02	<0.05	0.0045 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	MW22-ROX-011615	1/16/2015	37.88 - 47.88	42.19	NE	<0.1	1.51	<0.05		<0.05	0.0373 J	0.0133 J	0.0152 J	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	0.0117 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.025	<0.001	<0.001		<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	0.0029	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0157 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW24-ROX-011315	1/13/2015	38.89 - 48.89	43.17	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<20	501	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4 UJ	<10	<10	<2	<2	<2	<2	<4	<4	<1
	MW25-ROX-012215	1/22/2015	35.59 - 45.59	38.45	NE	<2.5 UJ	62.8	<1.3		<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.5	<0.25	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.13

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW26-ROX-011215	1/12/2015	38.15 - 48.15	41.09	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.01	0.00033 J	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW27-ROX-011515	1/15/2015	39.79 - 49.79	42.06	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.01	0.0081	<0.005		<0.005	<0.005	0.00083 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	0.00049 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	MW28-ROX-011515	1/15/2015	33.61 - 43.61	41.14	NE	<0.01	0.0541	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
P-54	P54-ROX-050412	5/4/2012	38.00 - 63.00	38.77	NE	<0.005	0.00082	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-041013	4/10/2013		41.80	NE	<0.01	0.172	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-050313	5/3/2013		41.80	NE	<0.01 UJ	0.0028	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-071113	7/11/2013		39.07	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-100813	10/8/2013		39.94	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-011514	1/15/2014		42.20	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-040914	4/9/2014		42.80	NE	<0.01	0.00081	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-071114	7/10/2014		41.71	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-100814	10/8/2014		40.88	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P54-ROX-011415	1/14/2015	38.00 - 63.00	41.79	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
P-55	P55-ROX-050912	5/9/2012	40.43 - 50.43	42.44	NE	<0.005	0.388	<0.005		<0.005	0.0099	0.0093	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P55-ROX-012113	1/21/2013		43.60	NE	<0.25	0.571	<0.05		<0.25	0.0533	0.011 J	<0.05	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01
	P55-ROX-012113	1/21/2013		43.60	NE	<0.005	0.538	<0.005		<0.253 U	0.0203	0.0143	0.0013 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0055	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P55-ROX-041513	4/15/2013		43.63	NE	<0.02 UJ	0.434	<0.01		<0.01	0.0052 J	0.0196	<0.01	<0.01	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	P55-ROX-071613	7/16/2013		40.06	NE	<0.01	0.573	<0.005	0.88	<0.005	0.0256	0.0155	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0065	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P55-ROX-101013	10/10/2013		41.67	NE	<0.01	0.757	<0.005		<0.005	0.0239	0.0147	0.0013 J	<0.005	<0.001	0.005	<0.001	0.0017 J J	<0.005	0.0066	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
P-56	P56-ROX-050812	5/8/2012	40.82 - 65.82	43.09	NE	<0.23 U	0.144	<0.005		<0.005	0.0086	0.0051	<0.005	<0.005	<0.001	<0.002	<0.001	0.0069	<0.005	0.0044 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025 UJ	0.164	<0.025		<0.025 UJ	<0.025	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01 UJ	<0.01	<0.0025
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005 UJ	0.176	<0.005		<0.005	<0.005	0.005	0.0021 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0041 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025	0.191	<0.025		<0.025	0.0031 J	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	P56-ROX-041213	4/12/2013		46.12	NE	<0.02 U	0.131	<0.01		<0.01	<0.01	0.0142	<0.01	<0.01	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.001
	P56-ROX-071513	7/15/2013		43.25	NE	<0.156 U	0.131	<0.005		<0.005	0.0141	0.0072	0.0038 J	<0.005	<0.001	0.0047	<0.001	<0.002	<0.005	0.0061	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-101013	10/10/2013		44.48	NE	<0.01	0.14	<0.005		<0.005	0.0088	0.005	0.0018 J	<0.005	<0.001	0.0038	<0.001	<0.002	<0.005	0.0046 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.001
	P56-ROX-012214	1/22/2014		46.35	NE	<0.01	0.0895	<0.005		<0.005	0.0033 J	0.0023 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-041414	4/14/2014		47.32	NE	<0.01	0.128	<0.005		<0.005	0.0069	0.0046 J	0.0014 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-070814	7/8/2014		45.97	NE	0.0626 J	0.127 J	<0.005		0.0132 J	0.0159 J	0.0073 J	0.0034 J J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0058 J	<0.001	<0.001	<0.001	0.0018 J	<0.002	<0.002	<0.0005
	P56-ROX-101314	10/13/2014		45.05	NE	<0.01 UJ	0.107	<0.005		<0.005	0.0062	0.004 J	0.0012 J	<0.005 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	0.0035 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P56-ROX-011915	1/19/2015	40.82 - 65.82	46.58	NE	<0.01	0.0991	<0.005		<0.005	0.004 J	0.0037 J	0.00077 J	0.004 J	<0.001	<0.002	<0.001	0.0045	<0.005	0.003 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
P-57	P57-ROX-050712	5/7/2012	40.46 - 65.46	42.92	NE	<0.5	147	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25 UJ	99.4 J	<0.25		<0.25 UJ	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005 UJ	106 J	<0.005		<0.005 UJ	<0.005	0.0107	0.0124	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0109	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	142	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5	114	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	1.43	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P57-ROX-041113	4/11/2013		46.29	NE	<5	141	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P57-ROX-071613	7/16/2013		43.38	NE	<0.01	254	<0.005		<0.005	0.0143 J	0.0131 J	0.0103 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0119 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P57-ROX-101413	10/14/2013		44.38	NE	<0.01	288	<0.005		<0.005	0.0129	0.0116	0.0163	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P57-ROX-020314	2/3/2014		46.57	NE	<10	261	<5		<5	<5	<5	<5	<5 UJ	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P57-ROX-041514	4/15/2014		46.70	NE	<0.01 UJ	384	<0.005		0.0055 J	0.0151	0.0131	0.0147	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0114	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P57-ROX-070814	7/8/2014		45.95	NE	0.0497 J	378	<0.005 UJ		<0.005 UJ	0.011 J	0.0091 J	0.0066 J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0081 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.0441 J	371	<0.005 UJ		0.0086 J	0.0114 J	0.0097 J	0.007 J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0085 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<20 UJ	220	<10		<10	<10	<10	<10	<10 UJ	<2 UJ	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P57-ROX-101414	10/14/2014		45.00	NE	<20 UJ	255	<10		<10	<10	<10	<10	<10 UJ	<2 UJ	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	<5 UJ	107	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-050712	5/7/2012	40.21 - 65.21	40.90	NE	<0.5	477	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5	440	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1 UJ	313 J	<0.1		<0.1 UJ	<0.1	<0.1	0.0317 J	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05	308 J	<0.05		<0.05	<0.05	0.0176 J	0.0339 J	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	0.0118 J	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5 UJ	415	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	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	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P58-ROX-041113	4/11/2013		44.40	NE	<20	532	<10		<20	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P58-ROX-071613	7/16/2013		41.49	NE	<0.01	398	<0.005		<0.005	0.0239	0.0215	0.0532	<0.005	0.0017	<0.002	<0.001	<0.002	<0.005	0.0152	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P58-ROX-101413	10/14/2013		42.19	NE	<0.01	647	<0.005		<0.005	0.023	0.0235	0.0483	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0143	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P58-ROX-020314	2/3/2014		44.66	NE	<10	496	<5		<5	<5	<5	<5	<5 UJ	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P58-ROX-041514	4/15/2014		45.66	NE	<0.01 UJ	782	<0.005		0.0056 J	0.0216 J	0.0185 J	0.0396 J	<0.005	0.0013 J	<0.002	<0.001	<0.002	<0.005	0.0116 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P58-ROX-071814	7/18/2014		43.80	NE	<20	406	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P58-ROX-101514	10/15/2014		43.14	NE	<5	493	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P58-ROX-012315	1/23/2015	40.21 - 65.21	45.32	NE	<10	304	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
P-59	P59-ROX-050912	5/9/2012	47.91 - 72.91	44.11	NE	<0.25	7.86	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1 UJ	11	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5 UJ	10.3	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	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	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25	12.1	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P59-ROX-041213	4/12/2013		46.95	NE	<0.5 UJ	15	<0.25		<0.25	<0.25	0.289	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.5 UJ	13.4	<0.25		<0.25	<0.25	0.288	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P59-ROX-071613	7/16/2013		44.13	NE	<0.01	10.2	<0.005		<0.005	0.0213 J	0.0068 J	0.0027 J J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P59-ROX-101013	10/10/2013		45.50	NE	<0.01	14.7	<0.005		<0.005	0.0224	<0.005	0.0024 J	<0.005	<0.001	0.0034	<0.001	<0.002	<0.005	0.0051	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P59-ROX-020314	2/3/2014		47.35	NE	<0.2	15.9	<0.1		<0.1	0.0165 J	<0.1	<0.1	<0.1 UJ	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	P59-ROX-041514	4/15/2014		48.60	NE	<0.01 UJ	14.8	<0.005		0.0253 J	0.0181	0.0035 J	0.0014 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0029 J	<0.001	<0.001	<0.001	0.0023	<0.002	<0.002	<0.0005
	P59-ROX-070814	7/8/2014		47.69	NE	0.057 J	12.2	<0.005		0.0169 J	0.0251 J	0.0073 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P59-ROX-101414	10/14/2014		46.18	NE	<0.01 UJ	12	<0.005		<0.005	0.0278 J	0.0097 J	0.0024 J J	<0.005 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	0.0043 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P59-ROX-011915	1/19/2015	47.91 - 72.91	47.42	NE	<1	13.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
P-66	P66-ROX-051012	5/10/2012	34.72 - 59.72	32.48	NE	<0.005	0.0193	<0.005		<0.005	0.0139	0.019	0.0059	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	0.0994	<0.005		<0.005	0.0118	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	0.223	<0.005		<0.005	0.0145	0.02	0.0054	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005	0.0896	<0.005		<0.005	0.0129	0.0227	0.0087	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-041113	4/11/2013		36.03	NE	<0.01	0.0444	<0.005		<0.01	0.0199	0.0249	0.0104	<0.005	<0.001	0.00065 J	<0.001	<0.002	<0.005	0.0093	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-071213	7/12/2013		33.20	NE	<0.01	0.187	<0.005		<0.005	0.0146	0.0221	0.006	<0.005	0.00059 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-101013	10/10/2013		33.66	NE	0.0095 J	0.0646	<0.005		<0.005	0.0141	0.0186	0.0067	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-110713	11/7/2013		33.66	NE	<0.01	0.03	<0.005		<0.005	0.0088	0.0102	0.0071	<0.005	0.0007 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-012914	1/29/2014		36.39	NE	<0.01	0.008	<0.005		<0.005	0.016	0.0205	0.0053	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-041114	4/11/2014		37.10	NE	<0.01	0.0052	<0.005		<0.005	0.0129	0.0168	0.0041 J	<0.005	0.00052 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-070714	7/7/2014		35.60	NE	<0.01 UJ	0.0429	<0.005		<0.005	0.0112	0.0147	0.0023 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-101414	10/14/2014		34.48	NE	<0.01 UJ	0.0212	<0.005		<0.005	0.0135	0.0173	0.0036 J	<0.005	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-011615	1/16/2015	34.72 - 59.72	36.62	NE	<0.01	0.0083	<0.005		<0.005	0.0162	0.021	0.0048 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.01	0.0076	<0.005		<0.005	0.0147	0.0198	0.0045 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
P-74	P74-ROX-050712	5/7/2012	44.43 - 69.43	39.92	NE	<0.005	0.336	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05 UJ	2.46	<0.05		<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1	3.5	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1	4.99	<0.1		<0.1	0.0143 J	<0.1	<0.1	<0.1	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.01
	P74-ROX-041113	4/11/2013		42.83	NE	<0.01	0.144	<0.005		<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0046 U	0.117	<0.005		<0.005	0.0088	0.002 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0017 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-101413	10/14/2013		41.72	NE	<0.01	1.55	<0.005		<0.005	0.0158	0.003 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-012414	1/24/2014		43.35	NE	<0.01	4.45	<0.005		<0.005	0.0252	0.0031 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-041514	4/15/2014		44.74	NE	0.0398 J	0.0349	<0.005		<0.005 UJ	0.0013 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-070814	7/8/2014		43.02	NE	<0.01 UJ	0.309	<0.005		<0.005	0.0138	0.0014 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-101414	10/14/2014		41.48	NE	<0.01 UJ	0.00068	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P74-ROX-011915	1/19/2015	44.43 - 69.43	43.47	NE	<0.01	3.13	<0.005		<0.005	0.0163	0.0022 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0029 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050812	5/8/2012	48.17 - 63.17	42.75	NE	<0.0441 U	200	<0.005 UJ		<0.005 UJ	0.005 J	0.0069 J	0.0179 J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0035 J J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	P93A-ROX-080912	8/9/2012		43.66	NE	<1.63 U	87	<0.005		<0.005	0.0016 J	0.0048 J	0.0128	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5 UJ	148	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5 UJ	156	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5	101	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	98.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-041113	4/11/2013		46.29	NE	<5	120	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<5	120	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0053 U	89.1	<0.005		<0.005	<0.005	0.0056	0.0916	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.01 UJ	197	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93A-ROX-012914	1/29/2014		46.53	NE	<5	136	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-041714	4/17/2014		47.41	NE	<5	132	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-071814	7/18/2014		45.70	NE	<10	170	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<10	174	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93A-ROX-101514	10/15/2014		45.06	NE	<5	293	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	<5	277	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.025 UJ	168	<0.001 UJ		<0.005 UJ	0.0023 J	0.0069 J	0.0186 J	<0.002 UJ	<0.001 UJ	0.00078 J J	<0.001 UJ	<0.002 UJ	<0.001 UJ	0.0064 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ
P-93B	P93B-ROX-050812	5/8/2012	74.60 - 76.60	42.79	NE	<0.0747 U	304	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0672 UJ	317	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5 UJ	162 J	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	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	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P93B-ROX-012313	1/23/2013		45.89	NE	<5	415	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93B-ROX-041113	4/11/2013		46.32	NE	<5	618	<2.5		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.01	296	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	P93B-ROX-101613	10/16/2013		44.43	NE	<20	187	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<20	180	<10		<10	<10	<10	<10	<10	<2	<4	<2	<4	<10	<10	<2	<2	<2	<2	<4	<4	<1
	P93B-ROX-012814	1/28/2014		46.58	NE	<10	242	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<10 UJ	293	<5		<5 UJ	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93B-ROX-041714	4/17/2014		47.46	NE	<5	134	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<5	126	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.01 UJ	172	<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	0.00042 J J	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.002 UJ	<0.0005 UJ
	P93B-ROX-101514	10/15/2014		45.15	NE	<5 UJ	241	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5 UJ	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.25
	P93B-ROX-012315	1/23/2015	74.60 - 76.60	47.24	NE	<10	564	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93B-ROX-012315-DUP	1/23/2015		47.24	NE	<10	623	<5		<5	<5	<5	<5	<5	<1	<2	<1	<2	<5	<5	<1	<1	<1	<1	<2	<2	<0.5
	P93B-ROX-021915	2/19/2015		47.24	NE	<250	625	<0.5		<2.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5
P-93C	P93C-ROX-050812	5/8/2012	94.26 - 96.26	42.68	NE	<0.005	0.0057	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0056 UJ	0.00084	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0056 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.01	101	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001 UJ
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.5	19.1	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.025
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.01	1.4	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.01 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.01	1.52	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.01	0.00075	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<1	102	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.05
	P93C-ROX-021915	2/19/2015		48.22	NE	<25	75.4	<1		<5	<1	<1	<1	<2	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<5	<1	<1

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93D	P93D-ROX-050812	5/8/2012	125.75 - 127.75	42.96	NE	<0.005	0.0056	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005 UJ	0.0134	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005	0.049	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005	0.106	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.01	<0.0005	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.01	0.0014	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.01	0.0012	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	0.00062 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0044	<0.0005
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.01	0.0022	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	0.00069 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0164	<0.0005
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.01	0.00063	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.1	36.4	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	P93D-ROX-110414	11/4/2014		45.14	NE	<0.01	19.9	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	0.0079	<0.0005
	P93D-ROX-012315	1/23/2015	125.75 - 127.75	42.28	NE	<2.5 UJ	62.6	<1.3		<1.3	<1.3	<1.3	<1.3	<1.3	<0.25	<0.5	<0.25	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.13
	P93D-ROX-021915	2/19/2015		42.28	NE	<130	240	<2.5		<13	<2.5	<2.5	<2.5	<5	<2.5	<5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<13	<2.5	<2.5
P-114	P114-ROX-050912	5/9/2012	32.67 - 52.67	28.09	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0756 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0144 UJ	<0.0005	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0059 UJ	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-071813	7/18/2013		27.22	NE	<0.251 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.245 U	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-101713	10/17/2013		29.43	NE	0.0047 J	0.00074	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-012814	1/28/2014		32.11	NE	0.142 J	0.0013	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-042114	4/21/2014		32.22	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-071814	7/18/2014		30.87	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	P114-ROX-101714	10/17/2014		29.43	NE	<0.01	<0.0005	<0.005		<0.005	0.0052 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	0.0006 J J	<0.002	<0.0005
	P114-ROX-012115	1/21/2015	32.67 - 52.67	31.53	NE	<0.01	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
ROST-3-MW (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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	0.0041	<0.005		<0.005	<0.005	<0.005	0.00072 J	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	0.0052	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	0.0051 J	<0.005		<0.005	0.0028 J	0.0013 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-040513	4/5/2013		42.24	NE	<0.005 UJ	0.0605	<0.005		<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0012 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.01 UJ	0.0125	<0.005		<0.005 UJ	<0.005	0.0014 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.01	0.0033	<0.005		<0.0164	0.00073 J	<0.005	<0.005	<0.005	<0.001	0.0034	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.01	0.004	<0.005		<0.005	0.0012 J	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.01	0.0075	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.01	0.0058	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.01 UJ	0.003	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST3MW-ROX-011515	1/15/2015	37.81 - 47.81	41.83	NE	<0.01	0.0022	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
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	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	0.0849	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005 UJ	0.0033	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005	<0.0005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.01	0.0153 J	<0.005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001	<0.002	<0.002 UJ	<0.0005 UJ
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.01 UJ	0.0497	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.01	0.00066	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.01	0.0015	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.01	0.0019	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.01 UJ	0.0751	<0.005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.01 UJ	0.039	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	ROST4PZC-ROX-011515	1/15/2015	34.95 - 44.95	41.65	NE	0.016	0.0013	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Acetone	Benzene	Bromobenzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	Dichloromethane (Methylene chloride)	1,2-Dichloropropane	trans-1,3-Dichloropropene
				Screening Values (mg/L)		6.3 [1]	0.005 [1]	0.056 [3]		4.2 [1]	0.35 [3]			0.7 [1]	0.1 [1]		0.07 [1]				0.6 [2]		0.075 [2]	1.4 [1]	0.005 [2]	0.005 [2]	0.001 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
T-12	T12-ROX-050912	5/9/2012	46.72 - 72.72	42.62	NE	<0.025	1.48	<0.025		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05 UJ	1.64	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05	1.71	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025	2.03 J	<0.025		<0.0795 U	0.0056 J	0.0036 J	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	T12-ROX-041513	4/15/2013		44.99	NE	<0.1 UJ	1.61	<0.05		<0.05	<0.05	0.0595	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	T12-ROX-071613	7/16/2013		42.33	NE	<0.01	1.65	<0.005		<0.005	0.0069 J	0.003 J J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	T12-ROX-101513	10/15/2013		43.73	NE	0.0803	2.02	<0.025		0.0246 J	0.0098 J	0.0038 J	<0.025	<0.025	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.0025
	T12-ROX-012414	1/24/2014		45.26	NE	<0.01	2.48	<0.005		<0.005	0.0083	0.0029 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	T12-ROX-041514	4/15/2014		46.72	NE	<0.01 UJ	2.07	<0.005		0.017 J	0.0062	0.0024 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.0005
	T12-ROX-070814	7/8/2014		45.13	NE	0.0658 J	2.1	<0.005		0.0094	0.0096	0.0039 J	<0.005	<0.005	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.001	<0.001	0.0022	<0.002	<0.002	<0.0005
	T12-ROX-101714	10/17/2014		44.40	NE	<0.1	1.83	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	<0.1	2.02	<0.05		<0.05	0.0115 J	<0.05	<0.05	<0.05	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.005

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-050112	5/1/2012	48.80 - 58.80	39.09	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0031	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0022	0.0001 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-102612	10/26/2012		41.22	NE																						
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0015	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0012	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0049	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0013	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0018	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0035	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.001	<0.005		<0.005		<0.005	<0.005 UJ	0.00082 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW1-ROX-011215	1/12/2015	48.80 - 58.80	42.73	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00084 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-02	MW2-ROX-050112	5/1/2012	49.87 - 59.87	40.25	NE	0.948	<0.025		<0.025		0.0886	<0.025	<0.005	0.0497	0.119	<0.025	0.0445	<0.025	<0.025	<0.005	<0.005		0.413	0.154	<0.025	1.14	0.0797	1.22
	MW2-ROX-073012	7/30/2012		40.60	NE	0.952	<0.005		<0.005		0.0818	<0.005	<0.001	0.0554	0.116	<0.005	0.0374	<0.005	<0.005	<0.001	<0.001		0.338	0.135	<0.005	1.27	0.0906	1.34
	MW2-ROX-102612	10/26/2012		42.35	NE	0.763	<0.025		<0.025		0.0764	<0.025	0.0115	0.0821	0.104	<0.025	0.0216	<0.025	<0.025	<0.005	<0.005		0.299	0.129	<0.025	0.878	0.052	0.93
	MW2-ROX-011113	1/11/2013		42.94	NE	0.676	<0.01		<0.01		0.0879	<0.01	<0.002	0.0768	0.121	<0.01	0.0093	<0.01	<0.01	<0.002	<0.002		0.219	0.105	<0.01	0.685	0.0287	0.713
	MW2-ROX-040913	4/9/2013		43.70	NE	0.91	<0.025		<0.025		0.085	<0.025	<0.005	0.0578	0.11	<0.025	0.0073	<0.025	<0.025	<0.005	<0.005		0.338	0.155	<0.025	1.01	0.0454	1.05
	MW2-ROX-071113	7/11/2013		40.82	NE	1.57	<0.005		<0.005 UJ		0.0931	<0.005	0.0062	0.114	0.127	<0.005	0.11	<0.005	<0.005	<0.001	<0.001		0.522	0.175	<0.005 UJ	1.88	0.174	1.88
	MW2-ROX-100813	10/8/2013		41.73	NE	0.942	<0.005		0.0079		0.0983	<0.005	0.0032	0.0939	0.132	<0.005	0.0164	<0.005	<0.005	<0.001	<0.001		0.368	0.174	0.0768	0.912	0.0519	0.912
	MW2-ROX-012014	1/20/2014		44.00	NE	0.426	<0.005		<0.005		0.102	<0.005	<0.001	0.0663	0.133	<0.005	0.0099	<0.005	<0.005	<0.001	<0.001		0.264	0.156	<0.005	0.486	0.0304	0.516
	MW2-ROX-041014	4/10/2014		44.66	NE	0.478	<0.005		<0.005		0.0816	<0.005	<0.001	0.0474	0.106	<0.005	0.0072	<0.005	<0.005	<0.001	<0.001		0.181	0.121	<0.005	0.444	0.0275	0.472
	MW2-ROX-071414	7/14/2014		43.13	NE	0.955	<0.005		<0.005		0.0966 J	<0.005	<0.001	0.0792 J	0.112 J	<0.005	0.0113 J	<0.005	<0.005	<0.001	<0.001		0.341 J	0.15 J	<0.005	0.764	0.0845	0.804
	MW2-ROX-101014	10/10/2014		42.49	NE	0.386 J	<0.01		<0.01 UJ		0.0675	<0.01 UJ	<0.002	0.0512	0.0867	<0.01	0.006	<0.01	<0.01	<0.002	<0.002		0.135	0.0901	<0.01	0.26 J	0.0183	0.278 J
	MW2-ROX-011615	1/16/2015	49.87 - 59.87	44.1	NE	0.358	0.0031 J		0.0039 J		0.0823	0.0061	<0.001	0.0626	0.107	0.00052 J	0.0121	0.0051	0.0044 J	<0.001	0.0015		0.0895	0.102	<0.005	0.207	0.0206	0.228
MW-03	MW3-ROX-043012	4/30/2012	34.67 - 44.67	26.19	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0039	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.007	<0.001	<0.001	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.001	<0.005		<0.005 UJ		0.0049 J	<0.005	0.0035	<0.005	0.0055	<0.005	0.0013	<0.005	<0.005	<0.001	<0.001		0.0013 J	<0.005	<0.005 UJ	0.0028	<0.001	0.0028
	MW3-ROX-100813	10/8/2013		27.38	NE	0.0025	<0.005		<0.005		<0.005	<0.005	0.00075 J	<0.005	0.0021 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.0197	0.0011	<0.001	0.0011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.001	<0.005		<0.005		0.0004 J	<0.005	0.003 J	<0.005	0.00053 J	<0.005	0.00046 J	<0.005	<0.005	<0.001	<0.001		0.0012 J	<0.005	<0.005 UJ	0.00095 J	<0.001	<0.00095 U
	MW3-ROX-011515	1/15/2015	34.67 - 44.67	29.65	NE	0.00039 J	<0.005		<0.005		0.00065 J	<0.005	0.0101	<0.005	0.0018 J	<0.005	0.00062 J	<0.005	<0.005	<0.001	<0.001		0.00071 J	0.00031 J	<0.005	0.0014	<0.001	0.0015
MW-04	MW4-ROX-050312	5/3/2012	46.06 - 56.06	37.45	NE	<0.001	<0.005		<0.005		0.0038 J	<0.005	0.0174	<0.0001	<0.005	<0.005	0.0255	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.016	0.003	0.0189
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.001	<0.005		<0.005		0.0036 J	<0.005	0.0162	<0.0001	0.0043 J	<0.005	0.0252	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0151	0.0031	0.0182
	MW4-ROX-072512	7/25/2012		37.63	NE	0.00082 J	<0.005 UJ		<0.005		0.0061	<0.005	0.015	<0.0001	0.0071	<0.005	0.0418	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0221	0.0042	0.0262
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	0.00083 J	<0.005 UJ		<0.005		0.0063	<0.005	0.0154	<0.0001	0.0072	<0.005	0.0427	<0.005	<0.005	<0.001	<0.001		0.00068 J	0.0057	<0.005	0.0214	0.0043	0.0257
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.002	<0.01		<0.01		0.0029 J	<0.01	0.0324	<0.01	0.0033 J	<0.01	0.0175	<0.01	<0.01	<0.002	<0.002		<0.01	<0.01	<0.01	0.0114	<0.002	0.0114
	MW4-ROX-011113	1/11/2013		40.20	NE	0.00052 J	<0.005		<0.005		0.0012 J	<0.005	0.0654	<0.005	0.0026 J	<0.005	0.0075	<0.005	<0.005	<0.001	<0.001		0.0019 J	0.0024 J	<0.005	0.0056	<0.001	0.0056
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	0.00056 J	<0.005		<0.005		0.0014 J	<0.005	0.0681	<0.005	0.003 J	<0.005	0.0083	<0.005	<0.005	<0.001	<0.001		0.0019 J	0.0026 J	<0.005	0.006	<0.001	0.006
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.1	<0.5		<0.5		<0.5	<0.5	0.112	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.002	<0.01		<0.01		<0.01	<0.01	0.112	<0.01	<0.01	<0.01	0.0057	<0.01	<0.01	<0.002	<0.002		<0.01	<0.01	<0.01	0.0052	<0.002	0.0062
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	0.00081 J	<0.005		<0.005		<0.005	<0.005	0.125	<0.005	0.004 J	<0.005	0.0076	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0073	0.0011	0.0084
	MW4-ROX-071713	7/17/2013		37.61	NE	0.0015	<0.005		0.0041 J		0.0067	<0.005	0.0559 J	<0.005	0.008	<0.005	0.0381	<0.005	<0.005	0.00085 J	<0.001		0.0012 J	<0.005	0.0392 J	0.0302	0.0052	0.0353
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.01	<0.05		<0.05		<0.05	<0.05	0.0333 J	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01		<0.05	<0.05	<0.05 UJ	<0.01	<0.01	0.0058 J
	MW4-ROX-013014	1/30/2014		41.09	NE	0.00048 J	<0.005		<0.005		0.0021 J	<0.005	<0.001	<0.005	0.0026 J	<0.005	0.0037	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0132	0.0049	0.0181
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.001	<0.005		<0.005		0.00059 J	<0.005	<0.001	<0.005	0.00081 J	<0.005	0.00099 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0027	0.00039 J	0.0031
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.01	<0.005		<0.005		<0.05	<0.005	<0.001	<0.05 UJ	<0.05	<0.005	0.006 J	<0.005	<0.005	<0.001	<0.001		<0.05	<0.05	<0.005	<0.01	<0.01	0.0055 J
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.005	<0.025		<0.025		0.0026 J	<0.025	0.0379	<0.025	<0.025	<0.025	<0.005	<0.025 UJ	<0.025	<0.005	<0.005		0.0037 J	<0.025	<0.025 UJ	0.0086	0.0022 J	0.0108
	MW4-ROX-012115	1/21/2015	46.06 - 56.06	41.27	NE	<0.001	<0.005		<0.005		0.0012 J	<0.005	0.0536	<0.005	0.00093 J	<0.005	0.0024	<0.005	<0.005	<0.001	<0.001		0.00045 J	<0.005	<0.005	0.006	0.0013	0.0074

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-05	MW5-ROX-050312	5/3/2012	33.97 - 43.97	25.89	NE	<0.001	<0.005		<0.005		0.001 J	<0.005	0.022	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.001	<0.005 UJ		<0.005		0.0066	<0.005	0.013	0.00032	0.0018 J	<0.005	0.0032	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.008	0.0017	0.0097
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.001	<0.005		<0.005		0.002 J	<0.005	0.0219	<0.005	<0.005	<0.005	0.0018	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0018	<0.001	0.0018
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.001	<0.005		<0.005		0.00086 J	<0.005	0.0295	<0.005	<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.001	<0.005		<0.005		0.00085 J	<0.005	0.0427	<0.005	<0.005	<0.005	0.002	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.001	<0.001	0.0014
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.001	<0.005		<0.005		0.0268	<0.005	0.0121	<0.005	0.0132	<0.005	0.0029	<0.005	<0.005	0.0018	<0.001		<0.005	<0.005	<0.005 UJ	0.0079	0.0018	0.0097
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.001	<0.005		<0.005		0.0045 J	<0.005	0.0221	<0.005	<0.005	<0.005	0.002	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.0129	0.0044	0.00097 J	0.0054
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.001	<0.005		<0.005		0.00097 J	<0.005	0.0282	<0.005	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0081	0.0045	0.0127
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0344	0.001 J	<0.005	<0.005	0.0013	<0.005	<0.005	<0.001	<0.001		0.00052 J	<0.005	<0.005	0.0013	0.00095 J	0.0023
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.001	<0.005		<0.005		0.00049 J	<0.005	<0.001	<0.005	<0.005	<0.005	0.0016	<0.005	<0.005	<0.001	<0.001		0.00033 J	<0.005	<0.005	0.002	0.00073 J	0.0027
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.001 UJ	<0.005		<0.005 UJ		0.0012 J	<0.005 UJ	0.019	<0.005	<0.005	<0.005	0.0015	<0.005	<0.005	<0.001	<0.001		0.00058 J	<0.005	<0.005	0.0027 J	0.0012 J	0.0039 J
	MW5-ROX-011515	1/15/2015	33.97 - 43.97	29.34	NE	<0.001	<0.005		<0.005		0.0057	<0.005	0.0215	<0.005	0.0018 J	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		0.00037 J	0.00031 J	<0.005	0.0076	0.0015	0.009
MW-06A	MW6A-ROX-050212	5/2/2012	34.83 - 44.83	27.77	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0019	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0025	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0131	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0132	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0108	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0103	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00086 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0148	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0082 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011415	1/14/2015	34.83 - 44.83	31.54	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06B	MW6B-ROX-050212	5/2/2012	64.05 - 69.05	27.82	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0115	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0122	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0091	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0166	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0132	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0113	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0047	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011415	1/14/2015	64.05 - 69.05	31.59	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06C	MW6C-ROX-050212	5/2/2012	84.95 - 89.95	27.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.001 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0012 J	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.00075 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00068 J	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00052 J J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011415	1/14/2015	84.95 - 89.95	31.41	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-06D	MW6D-ROX-050212	5/2/2012	104.72 - 109.72	27.45	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.001 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00061 J	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00094 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.00051 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00057 J J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415	1/14/2015	104.72 - 109.72	31.26	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-07	MW7-ROX-050412	5/4/2012	42.92 - 52.92	39.19	NE	<0.1	<0.5		<0.5		<0.5	<0.5	<0.1	0.0158	<0.5	<0.5	0.101	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW7-ROX-080712	8/7/2012		39.50	NE	0.0619	<0.05		<0.05		<0.05	<0.05	<0.01	0.0089	0.0102 J	<0.05	0.0629	<0.05	<0.05	<0.01	<0.01		0.1	0.021 J	<0.05	0.12	0.0486	0.169
	MW7-ROX-103012	10/30/2012		41.23	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-011513	1/15/2013		42.21	NE	<4	<20		<20		<20	<20	<4	<20	<20	<20	<4	<20	<20	<4	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<4	<20		<20		<20	<20	<4	<20	<20	<20	<4	<20	<20	<4	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	0.2 J	<0.005		<0.005		0.0096 J	<0.005	0.0031 J	0.0185 J	0.0173 J	<0.005	0.289 J	<0.005	<0.005	<0.001	<0.001		0.117 J	0.0264 J	0.0094 J	0.455 J	0.183 J	0.639 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<2	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW7-ROX-013014	1/30/2014		42.94	NE	<2.5	<13		<13		<13	<13	<2.5	<13	<13	<13	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<5	<25		<25		<25	<25	<5	<25	<25	<25	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW7-ROX-071614	7/16/2014		42.05	NE	0.208 J	<0.005		<0.005		0.0127 J	<0.005	<0.001	0.0165 J	0.0197 J	<0.005	0.224 J	<0.005	<0.005	<0.001	<0.001		0.143 J	0.0324 J	<0.005	0.48 J	0.187 J	0.667 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.206 J	<0.005		<0.005		0.0131 J	<0.005	<0.001	0.0141 J	0.0194 J	<0.005	0.222 J	<0.005	<0.005	<0.001	<0.001		0.142 J	0.0318 J	<0.005	0.465 J	0.181 J	0.647 J
	MW7-ROX-101614	10/16/2014		41.31	NE	<5	<25		<25		<25	<25	<5	<25	<25	<25	<5	<25 UJ	<25	<5	<5		<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<5	<25		<25		<25	<25	<5	<25	<25	<25	<5	<25 UJ	<25	<5	<5		<25	<25	<25 UJ	<5	<5	<5
	MW7-ROX-012215	1/22/2015	42.92 - 52.92	43.45	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
MW-08	MW8-ROX-050412	5/4/2012	33.60 - 43.60	30.21	NE	0.393	<0.5		<0.5		<0.5	<0.5	4.15	0.0186	<0.5	<0.5	1.55	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.978	0.37	1.35
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	0.396	<0.5		<0.5		<0.5	<0.5	4.07	0.0188	<0.5	<0.5	1.52	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.939	0.381	1.32
	MW8-ROX-080712	8/7/2012		30.97	NE	0.249	<0.1		<0.1		<0.1	<0.1	0.878	0.0164	0.0191 J	<0.1	0.781	<0.1	<0.1	<0.02	<0.02		0.104	0.0299 J	<0.1	0.623	0.246	0.868
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	0.232	<0.05		<0.05		<0.05	<0.05	0.885	0.0164	0.0176 J	<0.05	0.729	<0.05	<0.05	<0.01	<0.01		0.0921	0.0265 J	<0.05	0.598	0.235	0.833
	MW8-ROX-103012	10/30/2012		32.32	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-011513	1/15/2013		33.30	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	2.09	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<5	<25		<25		<25	<25	<5	<25	<25	<25	<5	<25	<25	<5	<5		<25	<25	<25	<5	<5	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	0.508	<0.005		<0.005		0.0173	<0.005	0.197 J	0.0335	0.0374	<0.005	0.348	<0.005	<0.005	<0.001	<0.001		0.199	0.0598	<0.005 UJ	1.01	0.361	1.3
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	0.442 J	<0.005		<0.005		0.0174	<0.005	0.187 J	0.0347	0.0383	<0.005	0.341	<0.005	<0.005	<0.001	<0.001		0.203	0.0613	<0.005 UJ	0.818 J	0.364	1.05
	MW8-ROX-101613	10/16/2013		31.59	NE	<2	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<2	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-013014	1/30/2014		34.02	NE	<2.5	<13		<13		<13	<13	1.92 J	<13	<13	<13	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<2.5	<13		<13		<13	<13	1.99 J	<13	<13	<13	<2.5	<13	<13	<2.5	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-071614	7/16/2014		33.01	NE	0.266	<0.005 UJ		<0.005 UJ		0.0266 J	<0.005 UJ	0.392 J	0.0598 J	0.0606 J	<0.005 UJ	0.108 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.226 J	0.0904 J	<0.005 UJ	0.377 J	0.141 J	0.518 J
	MW8-ROX-101614	10/16/2014		32.23	NE	0.305 J	<5		<5		<5	<5	1.19	<5	<5	<5	<1	<5 UJ	<5	<1	<1		<5	<5	<5 UJ	<1	<1	<1
	MW8-ROX-012215	1/22/2015	33.60 - 43.60	34.22	NE	0.359 J	<5		<5		<5	<5	0.906 J	<5	<5	<5	0.259 J	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.318 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-09	MW9-ROX-050312	5/3/2012	46.45 - 56.45	41.03	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-011315	1/13/2015	46.45 - 56.45	44.21	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-10	MW10-ROX-050112	5/1/2012	44.43 - 54.43	40.86	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	0.000052 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-102612	10/26/2012		43.08	NE																						
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00058 J
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	0.016	<0.001	<0.001	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.005	<0.005	<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	<0.005	<0.005	<0.01	<0.005	<0.005	
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.001	<0.005		<0.005	1.9	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-011315	1/13/2015	44.43 - 54.43	44.27	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-11	MW11-ROX-043012	4/30/2012	41.66 - 51.66	38.66	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00012	<0.005	<0.005 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-011315	1/13/2015	41.66 - 51.66	41.93	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-12	MW12-ROX-043012	4/30/2012	41.92 - 51.92	38.98	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.005 UJ	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00089 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.001	<0.005		<0.005		<0.005	<0.005 UJ	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-011215	1/12/2015	41.92 - 51.92	42.33	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobuyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-13	MW13-ROX-050712	5/7/2012	25.57 - 35.57	25.79	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0083	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.001 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0133 J	<0.0013 U	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0082	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.001	<0.005 UJ		<0.005		<0.005	<0.005	0.0094	<0.005	0.00064 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.001	<0.005 UJ		<0.005		<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.008 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0091 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001 UJ	<0.001	0.0011 J
	MW13-ROX-011615	1/16/2015	25.57 - 35.57	29.09	NE	0.00097 J	<0.005		<0.005		<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.00076 J	<0.005	<0.005	<0.001	<0.001		0.00064 J	<0.005	<0.005	0.0022	0.00072 J	0.003
MW-14	MW14-ROX-051012	5/10/2012	33.42 - 43.42	NM	NE	<0.001	<0.005		<0.005		0.0104	<0.005	<0.001	0.00099	0.0078	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0016	0.00041 J	0.002
	MW14-ROX-080312	8/3/2012		NM	NE	0.00065 J	<0.005		<0.005		0.0173	<0.005	<0.001	0.0013	0.0137	<0.005	0.00093 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0033	0.00061 J	0.0039
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.001	<0.005		<0.005		0.0161	<0.005	<0.001	<0.005	0.0121	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0024	<0.001	0.0024
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.001	<0.005		<0.005		0.021	<0.005	<0.001	<0.005	0.0162	<0.005	0.00097 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0026	<0.001	0.003
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.001	<0.005		<0.005		0.0346	<0.005	<0.001	<0.005	0.0206	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0038	<0.001	0.0043
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.001	<0.005 UJ		<0.005		0.0168	<0.005	<0.001	<0.005	0.0109	<0.005	0.00059 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	0.0026	<0.001	0.0029
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.001	<0.005		<0.005		0.0011 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.00088 J	0.0011 J	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.001	<0.005		<0.005		0.0036 J	<0.005	<0.001	<0.005	0.002 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.001	<0.005		<0.005		0.00073 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.001	<0.005		<0.005 UJ		0.00043 J	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001 UJ	<0.001	0.00041 J J
	MW14-ROX-011615	1/16/2015	33.42 - 43.42	33.58	NE	0.00036 J	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00042 J	<0.005	<0.005	<0.001	<0.001		0.00032 J	<0.005	<0.005	0.00072 J	<0.001	0.001
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-011315	1/13/2015	37.06 - 47.06	43.59	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	3.45	<0.25		<0.25		0.126 J	<0.25	<0.05	0.396	0.22 J	<0.25	10.5	<0.25	<0.25	<0.05	<0.05		1.23	0.288	<0.25 UJ	7.56	3.73	11.3
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	3.19	<0.25		<0.25		0.124 J	<0.25	<0.05	0.377	0.234 J	<0.25	9.06	<0.25	<0.25	<0.05	<0.05		1.26	0.291	<0.25 UJ	6.96	3.52	10.5
	MW22-ROX-040513	4/5/2013		42.23	NE	2.44	<0.005		<0.005		0.159 J	0.0124 J	<0.001	0.286 J	0.29 J	<0.005	6.14	<0.005	<0.005	<0.001	<0.001		0.931	0.379 J	<0.005	5.15	2.64	7.79
	MW22-ROX-071113	7/11/2013		39.35	NE	2.07	<0.005		<0.005 UJ		0.131	0.0102	<0.001	0.345	0.242	<0.005	3.92	<0.005	<0.005	<0.001	<0.001		0.864	0.309	<0.005 UJ	4.13	2.26	6.39
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	1.79	<0.005		<0.005 UJ		0.133	0.0103	<0.001	0.362	0.245	<0.005	3.57	<0.005	<0.005	<0.001	<0.001		0.754	0.311	<0.005 UJ	3.83	2.05	5.88
	MW22-ROX-100913	10/9/2013		40.39	NE	3.79	<0.005 UJ		<0.005		0.137	0.0101	<0.001	0.47	0.244	<0.005	6.02	<0.005	<0.005	<0.001	<0.001		1.37	0.357	<0.005	7.46	3.48	10.9
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	3.97	<0.005 UJ		<0.005		0.136	0.0084	<0.001	0.445	0.243	<0.005	6.32	<0.005	<0.005	<0.001	<0.001		1.43	0.343	<0.005	7.75	3.65	11.4
	MW22-ROX-012014	1/20/2014		42.49	NE	3.17	<0.005		0.0082		0.169	0.007	<0.001	0.287	0.287	<0.005	5.33	<0.005	<0.005	<0.001	<0.001		1.3	0.298	<0.005	5.65	2.65	8.29
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	3.4	<0.005		0.0088		0.169	0.007	<0.001	0.262	0.286	<0.005	5.71	<0.005	<0.005	<0.001	<0.001		1.37	0.398	<0.005	6.01	2.81	8.83
	MW22-ROX-041014	4/10/2014		43.15	NE	3.32	<0.005		<0.005		0.157	<0.005	<0.001	0.334	0.254	<0.005	5.95	<0.005	<0.005	<0.001	<0.001		1.1	0.384	<0.005	6.85	3.38	10.2
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	3.02	<0.005		<0.005		0.138	0.0082	<0.001	0.28	0.235	<0.005	5.52	<0.005	<0.005	<0.001	<0.001		1	0.35	<0.005	6.23	3.12	9.35
	MW22-ROX-071414	7/14/2014		41.85	NE	1.93	<0.005		<0.005		0.153 J	<0.005	<0.001	0.282 J	0.205 J	<0.005	3.14	<0.005	<0.005	<0.001	<0.001		0.353 J	0.262 J	<0.005	3.78	1.85	5.64
	MW22-ROX-101014	10/10/2014		41.43	NE	1.88 J	<0.05		<0.05 UJ		0.0661	<0.05 UJ	<0.01	0.202	0.112	<0.05	2.3	<0.05	<0.05	<0.01	<0.01		0.688	0.207	<0.05	3.08 J	1.74	4.82 J
	MW22-ROX-011615	1/16/2015	37.88 - 47.88	42.19	NE	2.84	<0.05		<0.05		0.11	0.0111 J	<0.01	0.339	0.2	<0.05	3.24	0.0129 J	0.0106 J	<0.01	<0.01		1.05	0.373	<0.05	5.19	2.74	7.93
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.001	<0.002		<0.01		<0.001	<0.005	0.0037	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.002	<0.002	<0.01	<0.002	<0.001	<0.003
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	0.0012	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		0.00051 J	<0.005	<0.005	0.0021	0.0009 J	0.003
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.001	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011315	1/13/2015	38.89 - 48.89	43.17	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	2.65	<10	<10	<2	<2		<10	<10	<10	<2	<2	0.753 J
	MW25-ROX-012215	1/22/2015	35.59 - 45.59	38.45	NE	<0.25	<1.3		<1.3		<1.3	<1.3	0.282	<1.3	<1.3	<1.3	<0.25	<1.3	<1.3	<0.25	<0.25		<1.3	<1.3	<1.3	<0.25	<0.25	0.0821 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0019	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW26-ROX-011215	1/12/2015	38.15 - 48.15	41.09	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW27-ROX-011515	1/15/2015	39.79 - 49.79	42.06	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.001	<0.005		<0.005		0.00075 J	<0.005	<0.001	<0.005	<0.005	<0.005	0.0011	<0.005	<0.005	<0.001	<0.001		0.0036 J	0.00059 J	<0.005	0.0036	0.0051	0.0087
	MW28-ROX-011515	1/15/2015	33.61 - 43.61	41.14	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00026 J	<0.005	<0.005	<0.001	<0.001		0.00059 J	<0.005	<0.005	0.0012	0.00092 J	0.0021
P-54	P54-ROX-050412	5/4/2012	38.00 - 63.00	38.77	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-103012	10/30/2012		40.70	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011514	1/15/2014		42.20	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071114	7/10/2014		41.71	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-100814	10/8/2014		40.88	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011415	1/14/2015	38.00 - 63.00	41.79	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-55	P55-ROX-050912	5/9/2012	39.82 - 64.82	42.44	NE	0.41	<0.005		<0.005		0.0392	<0.005	<0.001	0.0271	0.0699	<0.005	0.227	<0.005	<0.005	<0.001	<0.001		0.158	0.0368	<0.005	0.885	0.112	0.97
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	0.316	<0.01	0.276	<0.25		0.0678	<0.25	<0.02	0.079 J	0.14	<0.05	0.189	<0.05	<0.01	<0.05	<0.05	0.183	0.039 J	0.026 J	<0.1	0.279	0.347	
	P55-ROX-012113	1/21/2013		43.60	NE	0.366	<0.005		<0.005		0.0937	<0.005	0.002	0.12	0.206	<0.005	0.262	<0.005	<0.005	<0.001	<0.001		0.046	0.0312	<0.005	0.356	0.382	0.738
	P55-ROX-041513	4/15/2013		43.63	NE	0.35	<0.01		<0.01		0.068	<0.01	<0.002	0.0974 J	0.148	<0.01	0.143	<0.01	<0.01	<0.002	<0.002		0.0241	0.0229	<0.01	0.235	0.362	0.597
	P55-ROX-071613	7/16/2013		40.06	NE	0.495	<0.005 UJ		<0.005	0.72	0.0884	<0.005	<0.001	0.0841	0.175	<0.005	0.343	<0.005	<0.005	<0.001	<0.001		0.073	0.0559	<0.005 UJ	0.535	0.558	1.11
	P55-ROX-101013	10/10/2013		41.67	NE	0.602	<0.005		<0.005		0.0851	<0.005	0.001	0.121	0.167	<0.005	0.601	<0.005	<0.005	<0.001	<0.001		0.151	0.062	<0.005	0.739	0.639	1.38
P-56	P56-ROX-050812	5/8/2012	40.82 - 65.82	43.09	NE	1.14	<0.005		<0.005		0.0876	<0.005	<0.001	0.0667	0.111	<0.005	0.197	<0.005	<0.005	<0.001	<0.001		0.312	0.0708	<0.005	1.37	0.197	1.53
	P56-ROX-080612	8/6/2012		43.60	NE	0.101	<0.025		<0.025 UJ		0.0442	<0.025	<0.005	0.0197	0.0439	<0.025	0.0109	<0.025 UJ	<0.025 UJ	<0.005	<0.005		0.0131 J	0.005 J	<0.025 UJ	0.11	0.0083	0.118
	P56-ROX-103112	10/31/2012		44.80	NE	1.29	<0.005		<0.005		0.0752	<0.005	<0.001	0.167	0.105	<0.005	0.187	<0.005	<0.005	<0.001	<0.001		0.387	0.0901	<0.005	1.62	0.144	1.73
	P56-ROX-011713	1/17/2013		45.65	NE	0.0088	<0.025		<0.025		0.0398	<0.025	<0.005	0.0322	0.0456	<0.025	0.0119	<0.025	<0.025	<0.005	<0.005		0.0172 J	0.0092 J	<0.025	0.0745	<0.005	0.0745
	P56-ROX-041213	4/12/2013		46.12	NE	0.691	<0.01		<0.01		0.0581	<0.01	<0.002	0.0964 J	0.0805	<0.01	0.0799	<0.01	<0.01	<0.002	<0.002		0.27	0.0486	<0.01	1	0.0243	1.03
	P56-ROX-071513	7/15/2013		43.25	NE	2	<0.005		<0.005		0.0968	<0.005	<0.001	0.316	0.145	<0.005	0.311	<0.005	<0.005	<0.001	<0.001		0.551	0.134	<0.005	2.67	0.21	2.85
	P56-ROX-101013	10/10/2013		44.48	NE	1.58	<0.005		<0.005		0.0822	<0.005	0.00058 J	0.156	0.105	<0.005	0.157	<0.005	<0.005	<0.001	<0.001		0.33	0.0714	<0.005	1.7	0.0617	1.76
	P56-ROX-012214	1/22/2014		46.35	NE	0.305	<0.005		<0.005		0.0399	<0.005	<0.001	0.0566	0.0426	<0.005	0.0263	<0.005	<0.005	<0.001	<0.001		0.074	0.0172	<0.005	0.224	0.0093	0.233
	P56-ROX-041414	4/14/2014		47.32	NE	0.608	<0.005		<0.005		0.0781	<0.005	<0.001	0.0836	0.0951	<0.005	0.0669	<0.005	<0.005	<0.001	<0.001		0.205	0.0472	<0.005	0.742	0.0156	0.758
	P56-ROX-070814	7/8/2014		45.97	NE	1.71 J	<0.005		<0.005		0.106 J	<0.005	<0.001	0.156 J	0.133 J	<0.005	0.288 J	<0.005	<0.005	<0.001	<0.001		0.487 J	0.166 J	<0.005	2.04 J	0.122 J	2.09 J
	P56-ROX-101314	10/13/2014		45.05	NE	0.164	<0.005		<0.005 UJ		0.0645	<0.005 UJ	<0.001	0.0679	0.0709	<0.005	0.0183	<0.005	<0.005	<0.001	<0.001		0.0657	0.0194	<0.005	0.17 J	0.0066	0.176 J
	P56-ROX-011915	1/19/2015	40.82 - 65.82	46.58	NE	0.104	<0.005		<0.005		0.0532	<0.005	<0.001	0.0261	0.0574	<0.005	0.0114	<0.005	<0.005	<0.001	<0.001		0.0466	0.0135	<0.005	0.143	0.0043	0.148
P-57	P57-ROX-050712	5/7/2012	40.46 - 65.46	42.92	NE	1.07	<0.5		<0.5		<0.5	<0.5	0.453	0.0894	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		0.632	0.159 J	<0.5	0.928	0.0563 J	0.984
	P57-ROX-080612	8/6/2012		43.53	NE	0.795	<0.25		<0.25 UJ		<0.25	<0.25	0.238	0.119	<0.25	<0.25	0.0577	<0.25	<0.25	<0.05	<0.05		0.506	0.123 J	<0.25 UJ	0.74	0.0328 J	0.773
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	0.759 E	<0.005		<0.005 UJ		0.0432	<0.005	0.212	0.115	0.0519	<0.005	0.0558	<0.005	<0.005	<0.001	<0.001		0.505 E	0.137	<0.005 UJ	0.692	0.0348	0.727
	P57-ROX-110512	11/5/2012		44.98	NE	1.09	<2.5		<2.5		<2.5	<2.5	<0.5	1.53 J	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.577 J	<2.5	<2.5	1.03	<0.5	1.03
	P57-ROX-012913	1/29/2013		45.92	NE	1.1	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	0.331 J	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-041113	4/11/2013		46.29	NE	1.19	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.494 J	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-071613	7/16/2013		43.38	NE	1.59	<0.005 UJ		<0.005		0.0698 J	<0.005	0.112 J	0.203 J	0.0802 J	<0.005	0.202 J	<0.005	<0.005	<0.001	<0.001		<5	0.129 J	<0.005 UJ	1.81	0.256 J	2.01
	P57-ROX-101413	10/14/2013		44.38	NE	1.1	<0.005		<0.005		0.0539	<0.005	0.107	0.206	0.0586	<0.005	0.0421	<0.005	<0.005	<0.001	<0.001		0.763 J	0.12	<0.005	0.468	0.0206	0.489
	P57-ROX-020314	2/3/2014		46.57	NE	0.697 J	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P57-ROX-041514	4/15/2014		46.70	NE	1.08	<0.005		0.0062		0.0492	<0.005	0.0563	0.272	0.0585	<0.005	0.0248	0.0015 J	<0.005	<0.001	<0.001		0.503 E J	0.114	<0.005	0.296	0.0143	0.311
	P57-ROX-070814	7/8/2014		45.95	NE	1.12	<0.005 UJ		<0.005 UJ		0.0656 J	<0.005 UJ	<0.001 UJ	0.128 J	0.0605 J	<0.005 UJ	0.154 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.375 J	0.0913 J	<0.005 UJ	1.46	0.237	1.7
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	1.21	<0.005 UJ		<0.005 UJ		0.0689 J	<0.005 UJ	<0.001 UJ	0.139 J	0.0633 J	<0.005 UJ	0.16 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.392 J	0.0954 J	<0.005 UJ	1.56	0.234	1.79
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	1.77 J J	<10		<10 UJ		<10	<10 UJ	<2	<10	<10	<10	0.849 J	<10	<10	<2	<2		1.18 J	<10	<10	2.37 J	0.949 J	3.32 J
	P57-ROX-101414	10/14/2014		45.00	NE	3.86 J	<10		<10 UJ		<10	<10 UJ	<2	2.05 J	<10	<10	2.65	<10	<10	<2	<2		2.37 J	<10	<10	5.79 J	2.1	7.89 J
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.773	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.652 J	<2.5	<2.5	0.342 J	<0.5	0.342 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-58	P58-ROX-050712	5/7/2012	40.21 - 65.21	40.90	NE	1.03	<0.5		<0.5		<0.5	<0.5	<0.1	0.112 J	0.106 J	<0.5	0.137	<0.5	<0.5	<0.1	<0.1		0.776	0.108 J	<0.5	0.666	0.0982 J	0.764
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	1	<0.5		<0.5		<0.5	<0.5	<0.1	0.0697 J	0.108 J	<0.5	0.145	<0.5	<0.5	<0.1	<0.1		0.757	0.109 J	<0.5	0.636	0.0968 J	0.733
	P58-ROX-080612	8/6/2012		41.63	NE	0.889	<0.1		<0.1 UJ		0.0649 J	<0.1	<0.02	0.142	0.0909 J	<0.1	0.117	<0.1	<0.1	<0.02	<0.02		0.705	0.0955 J	<0.1 UJ	0.652	0.0976	0.749
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	0.931	<0.05		<0.05		0.0718	<0.05	<0.01	0.15	0.0996	<0.05	0.128	<0.05	<0.05	<0.01	<0.01		0.737	0.102	<0.05	0.656	0.104	0.759
	P58-ROX-110612	11/6/2012		43.09	NE	0.844	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	0.124	<0.5	<0.5	<0.1	<0.1		0.658	0.108 J	<0.5	0.544	0.0807 J	0.624
	P58-ROX-121012	12/10/2012		43.09	NE																						
	P58-ROX-012213	1/22/2013		44.21	NE	1.27	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	0.728 J
	P58-ROX-041113	4/11/2013		44.40	NE	1.28 J	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		0.926 J	<10	<10	<2	<2	<2
	P58-ROX-071613	7/16/2013		41.49	NE	1.07	<0.005 UJ		<0.005		0.101	<0.005	<0.001	0.234	0.131	<0.005	0.147	<0.005	<0.005	<0.001	<0.001		0.634 J	0.13	<0.005 UJ	0.723	0.12	0.843
	P58-ROX-101413	10/14/2013		42.19	NE	1.53	<0.005		<0.005		0.0999	0.0055	0.0015	0.234	0.135	<0.005	0.2	<0.005	<0.005	<0.001	<0.001		1.17 J	0.131	<0.005	0.74	0.112	0.852
	P58-ROX-020314	2/3/2014		44.66	NE	0.767 J	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P58-ROX-041514	4/15/2014		45.66	NE	0.891 J	<0.005		<0.005		0.0777 J	<0.005	<0.001	0.277 J	0.104 J	<0.005	0.127 J	<0.005	<0.005	<0.001	<0.001		0.53 E J	0.0992 J	<0.005	0.552 J	0.0908 J	0.643 J
	P58-ROX-071814	7/18/2014		43.80	NE	<2	<10		<10		<10	<10	<2	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10	<2	<2	<2
	P58-ROX-101514	10/15/2014		43.14	NE	0.793 J	<2.5		<2.5		1.43 J	<2.5	<0.5	<2.5	0.781 J	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.72 J	0.453 J	<2.5	<0.5	0.253 J	0.718
	P58-ROX-012315	1/23/2015	40.21 - 65.21	45.32	NE	1.13	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		0.714 J	<5	<5	0.686 J	<1	0.686 J
P-59	P59-ROX-050912	5/9/2012	47.91 - 72.91	44.11	NE	1.93	<0.25		<0.25		0.0585 J	<0.25	<0.05	0.0925	0.123 J	<0.25	2.35	<0.25	<0.25	<0.05	<0.05		0.67	0.171 J	<0.25	4.56	1.08	5.64
	P59-ROX-080212	8/2/2012		44.07	NE	1.74	<0.1		<0.1		0.0452 J	<0.1	<0.02	0.0886	0.0974 J	<0.1	0.506	<0.1	<0.1	<0.02	<0.02		0.563	0.158	<0.1	4.35	0.376	4.73
	P59-ROX-110212	11/2/2012		45.98	NE	1.87	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.105 J	<0.5	1.09	<0.5	<0.5	<0.1	<0.1		0.558	0.154 J	<0.5	4.49	0.686	5.17
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	1.94	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.111 J	<0.5	1.1	<0.5	<0.5	<0.1	<0.1		0.592	0.167 J	<0.5	4.68	0.721	5.4
	P59-ROX-013013	1/30/2013		46.60	NE	1.9	<0.25		<0.25		0.0455 J	<0.25 UJ	<0.05 UJ	0.376	0.085 J	<0.25	0.296	<0.25	<0.25	<0.05	<0.05		0.563	0.0491 J	<0.25	4.19	0.264	4.45
	P59-ROX-041213	4/12/2013		46.95	NE	2.85	<0.25		<0.25		0.062 J	<0.25	<0.05	0.664	0.136 J	<0.25	0.523	<0.25	<0.25	<0.05	<0.05		0.946	<0.25	<0.25	6.52	0.646	7.16
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	2.57	<0.25		<0.25		0.0543 J	<0.25	<0.05	0.547	0.117 J	<0.25	0.463	<0.25	<0.25	<0.05	<0.05		0.843	<0.25	<0.25	5.89	0.591	6.48
	P59-ROX-071613	7/16/2013		44.13	NE	2.4	<0.005 UJ		<0.005		0.074 J	<0.005	<0.001	0.215 J	0.149 J	<0.005	1.03	<0.005	<0.005	<0.001	<0.001		0.784	0.219	<0.005 UJ	5.76	0.431	6.19
	P59-ROX-101013	10/10/2013		45.50	NE	3.19	<0.005		<0.005		0.086	<0.005	0.0012	0.285	0.176	<0.005	2.89	<0.005	<0.005	<0.001	<0.001		1.14	0.273	<0.005	7.47	1.28	8.75
	P59-ROX-020314	2/3/2014		47.35	NE	1.86	<0.1		<0.1		0.0409 J	<0.1	<0.02	0.0321 J	0.0824 J	<0.1	0.66	<0.1	<0.1	<0.02	<0.02		0.621	0.193	<0.1	3.79	0.438	4.23
	P59-ROX-041514	4/15/2014		48.60	NE	1.69	<0.005		0.054		0.0495	<0.005	<0.001	0.196	0.0798	<0.005	0.746	0.0027 J	<0.005	<0.001	<0.001		0.385	0.214	<0.005	4.83	0.902	5.73
	P59-ROX-070814	7/8/2014		47.69	NE	1.92	<0.005		<0.005		0.0948 J	<0.005	<0.001	0.228 J	0.16 J	<0.005	1.55	<0.005	<0.005	<0.001	<0.001		0.607	0.285 J	<0.005	4.48	0.929	5.41
	P59-ROX-101414	10/14/2014		46.18	NE	2.33	<0.005		<0.005 UJ		0.0932 J	<0.005 UJ	0.0041 J	0.38 J	0.188 J	<0.005	1.13	<0.005	<0.005	<0.001	<0.001		0.901	0.26 J	<0.005	5.14 J	1.03	6.17 J
	P59-ROX-011915	1/19/2015	47.91 - 72.91	47.42	NE	2.2	<0.5		<0.5		0.0619 J	<0.5	<0.1	0.572	0.108 J	<0.5	0.375	<0.5	<0.5	<0.1	<0.1		0.609	0.21 J	<0.5	4.95	0.245	5.2
P-66	P66-ROX-051012	5/10/2012	34.72 - 59.72	32.48	NE	0.0015	<0.005		<0.005		0.123	<0.005	0.0771	<0.0001	0.152	<0.005	0.0021	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0012	0.0012	0.0024
	P66-ROX-080312	8/3/2012		30.51	NE	0.0013	<0.005		<0.005		0.0874	<0.005	0.103	0.0013	0.112	<0.005	0.0013	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0011	0.0011	0.0022
	P66-ROX-103112	10/31/2012		34.75	NE	0.0012	<0.005		<0.005		0.122	<0.005	0.0733	<0.005	0.156	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-011813	1/18/2013		35.70	NE	0.0014	<0.005		<0.005		0.146	<0.005	0.104	<0.005	0.193	<0.005	0.0015	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00093 J	0.00093 J
	P66-ROX-041113	4/11/2013		36.03	NE	0.0036	<0.005		<0.005		0.287	<0.005	0.086	<0.005	0.384	<0.005	0.0012	<0.005	<0.005	<0.001	<0.001		0.0041 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-071213	7/12/2013		33.20	NE	0.0022	<0.005 UJ		<0.005		0.191	<0.005	<0.001	<0.005	0.229	<0.005	0.0018	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	0.001	0.0015
	P66-ROX-101013	10/10/2013		33.66	NE	0.0045	<0.005		<0.005		0.151	<0.005	0.085	0.0104	0.204	<0.005	0.0013	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00096 J	0.00096 J
	P66-ROX-110713	11/7/2013		33.66	NE	0.0016	<0.005		<0.005		0.0958	<0.005	0.0528	0.0057	0.0658	<0.005	0.00086 J	<0.005	<0.005	0.0015	<0.001		<0.005	<0.005	<0.005	<0.001	0.00057 J	0.00057 J
	P66-ROX-012914	1/29/2014		36.39	NE	0.0013	<0.005		<0.005		0.131	<0.005	<0.001	<0.005	0.157	<0.005	0.0017	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.0045	0.0045
	P66-ROX-041114	4/11/2014		37.10	NE	0.0014	<0.005		<0.005		0.115	<0.005	<0.001	0.0014 J	0.136	<0.005	0.0017	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	0.00072 J	0.0013
	P66-ROX-070714	7/7/2014		35.60	NE	0.0016	<0.005		<0.005		0.144	<0.005	<0.001	<0.005	0.102	<0.005	0.0022	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.001	0.00099 J	0.002
	P66-ROX-101414	10/14/2014		34.48	NE	0.0013	<0.005		<0.005 UJ		0.129	<0.005	0.0111	<0.005	0.137	<0.005	0.0016	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001 UJ	0.0009 J	0.0018 J
	P66-ROX-011615	1/16/2015	34.72 - 59.72	36.62	NE	0.0016	<0.005		<0.005		0.121	<0.005	0.0171	0.006	0.136	<0.005	0.0018	<0.005	<0.005	<0.001	<0.001		0.00073 J	0.00029 J	<0.005	0.00093 J	0.0012	0.0021
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	0.0014	<0.005		<0.005		0.116	<0.005	0.0172	0.0053	0.127	<0.005	0.0016	<0.005	<0.005	<0.001	<0.001		0.00041 J	0.00019 J	<0.005	0.001	0.0013	0.0022
P-74	P74-ROX-050712	5/7/2012	44.43 - 69.43	39.92	NE	0.0081	<0.005		<0.005		<0.005	<0.005	<0.001	0.00024	0.001 J	<0.005	0.0017	<0.005	<0.005	<0.001	<0.001		0.0155	0.0063	<0.005	0.0273	0.0093	0.0366
	P74-ROX-080612	8/6/2012		40.71	NE	0.0782	<0.05		<0.05 UJ		<0.05	<0.05	<0.01	0.0177	<0.05	<0.05	0.159	<0.05	<0.05	<0.01	<0.01		0.187	0.0663	<0.05 UJ	0.388	0.125	0.512
	P74-ROX-110112	11/1/2012		41.72	NE	0.0493	<0.1		<0.1		<0.1	<0.1	<0.02	0.0834 J	<0.1	<0.1	0.232	<0.1	<0.1	<0.02	<0.02		0.125	0.0414 J	<0.1	0.246	0.0811	0.328
	P74-ROX-011713	1/17/2013		42.65	NE	0.0997	<0.1		<0.1		<0.1	<0.1	<0.02	0.141	<0.1	<0.1	0.278	<0.1	<0.1	<0.02	<0.02		0.249	0.0973 J	<0.1	0.547	<0.02	0.555
	P74-ROX-041113	4/11/2013		42.83	NE	0.0086	<0.005		<0.005		<0.005	<0.005	<0.001	0.0016 J	<0.005	<0.005	0.003	<0.005	<0.005	<0.001	<0.001		0.0184	0.0138	<0.005	0.0456	0.0146	0.0601
	P74-ROX-071513	7/15/2013		40.11	NE	0.0306	<0.005		<0.005		0.0031 J	<0.005	<0.001	0.024	0.0054	<0.005	0.0064	<0.005	<0.005	<0.001	<0.001		0.101	0.0365	<0.005	0.109	0.027	0.136
	P74-ROX-101413	10/14/2013		41.72	NE	0.0653	<0.005		<0.005		0.0052	0.0074	0.0011	0.0257	0.0094	<0.005	0.0344	<0.005	<0.005	<0.001	<0.001		0.192	0.0739	<0.005	0.237	0.0483	0.285
	P74-ROX-012414	1/24/2014		43.35	NE	0.115	<0.005		<0.005		0.0058	<0.005	<0.001	0.0322	0.0112	<0.005	0.153	<0.005	<0.005	<0.001	<0.001		0.292	0.11	<0.005	0.316	0.0579	0.374
	P74-ROX-041514	4/15/2014		44.74	NE	0.0043	<0.005		<0.005		<0.005	<0.005	<0.001	0.00074 J	<0.005	<0.005	0.00078 J	<0.005	<0.005	<0.001	<0.001		0.0083	0.0039 J	<0.005	0.0193	0.0015	0.0208
	P74-ROX-070814	7/8/2014		43.02	NE	0.0374	<0.005		<0.005		0.0018 J J	<0.005	<0.001	0.0128	0.0036 J	<0.005	0.0087	<0.005	<0.005	<0.001	<0.001		0.117	0.0518	<0.005	0.121	0.0122	0.133
	P74-ROX-101414	10/14/2014		41.48	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001 UJ	<0.001	0.00043 J J
	P74-ROX-011915	1/19/2015	44.43 - 69.43	43.47	NE	0.082	<0.005		<0.005		0.0029 J	<0.005	0.0056	0.0193	0.0053	<0.005	0.102	<0.005	<0.005	<0.001	<0.001		0.135	0.0589	<0.005	0.197	0.019	0.216

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93A	P93A-ROX-050812	5/8/2012	48.17 - 63.17	42.75	NE	0.38 J	<0.005 UJ		<0.005 UJ		0.0218 J	<0.005 UJ	0.0557 J	0.0472	0.0239 J	<0.005 UJ	0.0407 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.194 J	0.0416 J	<0.005 UJ	0.647 J	0.0841 J	0.731 J
	P93A-ROX-080912	8/9/2012		43.66	NE	0.225	<0.005		<0.005		0.0126	<0.005	0.0485	0.0496	0.0137	<0.005	0.0091	<0.005	<0.005	<0.001	<0.001		0.145	0.0273	<0.005	0.436	0.0642	0.5
	P93A-ROX-110712	11/7/2012		45.00	NE	0.265	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.43	0.076 J	0.506
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	0.262	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.404	0.073 J	0.477
	P93A-ROX-012313	1/23/2013		45.89	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	0.255 J	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	0.162	<0.005		<0.005		0.0101	<0.005	0.0054 J	0.0303	0.0113	<0.005	0.0072	<0.005	<0.005	<0.001	<0.001		0.0915	0.0116	<0.005 UJ	0.273	0.0426	0.316
	P93A-ROX-101113	10/11/2013		44.18	NE	0.264	<0.005		<0.005		0.0142	<0.005	0.0034	0.0621	0.015	<0.005	0.0133	<0.005	<0.005	<0.001	<0.001		0.146	0.0163	<0.005 UJ	0.451	0.0789	0.53
	P93A-ROX-012914	1/29/2014		46.53	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071814	7/18/2014		45.70	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93A-ROX-101514	10/15/2014		45.06	NE	0.229 J J	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		0.442 J	<2.5	<2.5	<0.5	0.263 J	0.65
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.226 J J	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	0.258 J	0.635
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	0.0856 J	<0.002 UJ		<0.01 UJ		0.0073 J	0.0011 J J	0.0013 J	0.0243 J	0.008 J	<0.001 UJ	0.0039 J	<0.001 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ		0.127 E J	0.0282 J	<0.01 UJ	0.138 J	0.0347 J	0.173 J
P-93B	P93B-ROX-050812	5/8/2012	74.60 - 76.60	42.79	NE	0.0379 J	<0.005		<0.005		0.0188 J	<0.005	<0.001	0.002	0.0272 J	<0.005	0.0512 J	<0.005	<0.005	<0.001	<0.001		0.0196 J	0.0054 J	<0.005	0.116 J	0.0251 J	0.141 J
	P93B-ROX-080912	8/9/2012		43.69	NE	0.0741	<0.005		<0.005		0.0266	<0.005	<0.001	0.0049	0.0406	<0.005	0.0786	<0.005	<0.005	<0.001	<0.001		0.0372	0.0107	<0.005	0.245	0.0468	0.292
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.1	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.0986 J	<0.1	0.0986 J
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	0.0695 J	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	0.0719 J	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	0.237	<0.1	0.237
	P93B-ROX-012313	1/23/2013		45.89	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5 UJ	<1	<1	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	0.0652	<0.005		<0.005		0.0247	<0.005	0.0035 J	0.0093	0.0357	<0.005	0.0646	<0.005	<0.005	<0.001	<0.001		0.025	0.0069	0.0176 J	0.195	0.0418	0.236
	P93B-ROX-101613	10/16/2013		44.43	NE	<2	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<2	<10		<10		<10	<10	<2 UJ	<10	<10	<10	<2	<10	<10	<2	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-012814	1/28/2014		46.58	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<1	<5		<5 UJ		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071714	7/17/2014		45.75	NE	0.0236 J	<0.005 UJ		<0.005 UJ		0.0227 J	<0.005 UJ	<0.001 UJ	0.0053 J	0.0297 J	<0.005 UJ	0.0129 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.008 J	0.0037 J J	<0.005 UJ	0.0662 J	0.0047 J	0.0708
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.5	<2.5		<2.5 UJ		<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-012315	1/23/2015		47.24	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012315-DUP	1/23/2015	74.60 - 76.60	47.24	NE	<1	<5		<5		<5	<5	<1	<5	<5	<5	<1	<5	<5	<1	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-021915	2/19/2015		47.24	NE	<0.5	<1		<5		<0.5	<2.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<1	<5	<1	<0.5	<1.5
P-93C	P93C-ROX-050812	5/8/2012	94.26 - 96.26	42.68	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.004	<0.00011	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0053	0.000065 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0056	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0044	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0045	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	0.0041	<0.005		<0.005		0.002 J	<0.005	0.0049 J	<0.005	0.002 J	<0.005	0.007	<0.005	<0.005	<0.001	<0.001		0.0016 J	<0.005	<0.005 UJ	0.0076	0.0015	0.0091
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.05	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.25	<0.05	<0.25	<0.25	<0.05	<0.05		<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0047 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0043	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0061 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0046	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.1	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	P93C-ROX-021915	2/19/2015		48.22	NE	<1	<2		<10		<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1		<2	<2	<10	<2	<1	<3

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																					
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93D	P93D-ROX-050812	5/8/2012	125.75 - 127.75	42.96	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00077 J	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0092 U	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0023	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012213	1/22/2013		44.21	NE	0.00069 J	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.001	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00066 J J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	0.0017 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0011 J	<0.005 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.01	<0.05		<0.05		<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01		0.0083 J	<0.05	<0.05	<0.01	<0.01	<0.01
	P93D-ROX-110414	11/4/2014		45.14	NE	0.0013	<0.005		<0.005		<0.005	<0.005	0.002	<0.005	0.00067 J	<0.005	0.0018	<0.005	<0.005	<0.001	<0.001		0.00057 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012315	1/23/2015	125.75 - 127.75	42.28	NE	<0.25	<1.3		<1.3		<1.3	<1.3	<0.25	<1.3	<1.3	<1.3	<0.25	<1.3	<1.3	<0.25	<0.25		<1.3	<1.3	<1.3	<0.25	<0.25	<0.25
	P93D-ROX-021915	2/19/2015		42.28	NE	<2.5	<5		<25		<2.5	<13	<2.5	<13	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<5	<5	<25	<5	<2.5	<7.5
P-114	P114-ROX-050912	5/9/2012	32.67 - 52.67	28.09	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.00083 J	<0.0001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.00039 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0076 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	0.0013 J	<0.001	0.0013 J
	P114-ROX-012313	1/23/2013		30.22	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0051	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0023 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0022 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0036	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012814	1/28/2014		32.11	NE	<0.001	<0.005		<0.005 UJ		<0.005	<0.005	0.0153	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071814	7/18/2014		30.87	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0037	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-101714	10/17/2014		29.43	NE	0.00045 J J	<0.005		<0.005		<0.005	<0.005	0.0098 J	<0.005	0.00087 J J	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.001		<0.005	0.00043 J J	<0.005 UJ	0.00059 J J	<0.001	0.00059 J J
	P114-ROX-012115	1/21/2015	32.67 - 52.67	31.53	NE	<0.001	<0.005		<0.005		<0.005	<0.005	0.0268 J	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.00046 J J	<0.005	<0.005	0.00068 J J	<0.001	0.00093 J J
ROST-3-MW (ROST-3-PZ)	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	0.0167	<0.005		<0.005		<0.005	<0.005	<0.001	0.00048	0.00096 J	<0.005	0.0038	<0.005	<0.005	<0.001	<0.001		0.0095	0.0023 J	<0.005	0.0607	0.0151	0.0758
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	0.0047	<0.005		<0.005		<0.005	<0.005	<0.001	0.00038	<0.005	<0.005	0.0015	<0.005	<0.005	<0.001	<0.001		0.0042 J	0.0012 J	<0.005	0.0289	0.0074	0.0363
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	0.0018	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.0026 J	<0.005	<0.005	0.0122	0.0037	0.0159
	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	0.0296	<0.005		<0.005		0.0066	<0.005	<0.001	0.0076	0.0156	<0.005	0.0016	<0.005	<0.005	<0.001	<0.001		0.0786	0.022	<0.005 UJ	0.114	0.0159	0.13
	ROST3MW-ROX-040513	4/5/2013		42.24	NE	0.0136	<0.005		<0.005		0.0032 J	<0.005	<0.001	0.132 J	0.0082	<0.005	0.0076	<0.005	<0.005	<0.001	<0.001		0.0531	0.0145	<0.005	0.0603	0.0126	0.0729
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	0.218	<0.005		<0.005 UJ		0.0146	<0.005	<0.001	0.0411	0.0279	<0.005	0.014	<0.005	<0.005	<0.001	<0.001		0.164	0.0373	<0.005 UJ	0.644	0.124	0.768
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	0.0182	<0.005 UJ		<0.005		0.0017 J	<0.005	<0.001	0.0045 J	0.0029 J	<0.005	0.0018	<0.005	<0.005	<0.001	<0.001		0.0168	0.0035 J	<0.005	0.0422	0.0123	0.0546
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	0.008	<0.005		<0.005		0.00099 J	<0.005	<0.001	<0.005	0.002 J	<0.005	0.0012	<0.005	<0.005	<0.001	<0.001		0.0207	0.0057	<0.005	0.0377	0.0063	0.044
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	0.0055	<0.005		<0.005		0.00043 J	<0.005	<0.001	0.00084 J	0.00082 J	<0.005	0.0015	<0.005	<0.005	<0.001	<0.001		0.0121	0.003 J	<0.005	0.0287	0.0028	0.0315
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	0.008	<0.005		<0.005		0.00053 J	<0.005	<0.001	0.0045 J	0.00098 J	<0.005	0.0024	<0.005	<0.005	<0.001	<0.001		0.0132	0.0032 J	<0.005	0.0371	0.0041	0.0412
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	0.0398	<0.005		<0.005		0.0021 J	<0.005	<0.001 UJ	0.0061	0.0028 J	<0.005	0.0032	<0.005	<0.005	<0.001	<0.001		0.018	0.005	<0.005 UJ	0.0651	0.0205	0.0856
	ROST3MW-ROX-011515	1/15/2015	37.81 - 47.81	41.83	NE	0.0144	<0.005		<0.005		0.0016 J	<0.005	<0.001	0.0061	0.0021 J	<0.005	0.0011	<0.005	<0.005	<0.001	<0.001		0.0126	0.0036 J	<0.005	0.0166	0.0042	0.0209
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.001	<0.005		<0.005		<0.005	<0.005	<0.001	0.0018	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	0.177	<0.005 UJ		<0.005		0.0036 J	<0.005	<0.001	0.0331	0.0059	<0.005	0.0596	<0.005	<0.005	<0.001	<0.001		0.0374	0.0076	<0.005	0.373	0.207	0.581
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	0.0014	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0021	<0.001	0.0021
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	0.0013	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001		0.002 J	0.0014 J	<0.005	0.0018	<0.001	0.0018
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	0.0028 J	<0.005		<0.005 UJ		0.00061 J J	<0.005 UJ	<0.001	<0.005	0.0011 J	<0.005 UJ	0.0006 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ		0.0016 J	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	0.0651	<0.005		<0.005 UJ		0.0025 J	<0.005	<0.001	0.0189	0.0041 J	<0.005	0.041	<0.005	<0.005	<0.001	<0.001		0.0194	0.0044 J	<0.005 UJ	0.126	0.0649	0.191
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	0.0064	<0.005 UJ		<0.005		0.00066 J	<0.005	<0.001	0.0054	0.0012 J	<0.005	0.0013	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0101	0.0054	0.0155
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	0.0039	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00073 J	<0.005	0.0014	<0.005	<0.005	<0.001	<0.001		0.0017 J	<0.005	<0.005	0.0124	0.0057	0.018
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	0.00059 J	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.00057 J	<0.005	<0.005	<0.001	<0.001		<0.005	<0.005	<0.005	0.0015	0.0015	0.003
	ROST4C-ROX-071114	7/10/2014		42.22	NE	0.0594	<0.005		<0.005		0.00037 J	<0.005	<0.001	0.0104 J	<0.005	<0.005	0.0421	<0.005 UJ	<0.005	<0.001	<0.001		0.00082 J	<0.005	<0.005	0.0574	0.0815	0.139
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	0.0688	<0.005		<0.005		0.0011 J	<0.005	<0.001 UJ	0.0169	0.0011 J	<0.005	0.0196	<0.005	<0.005	<0.001	<0.001		0.0046 J	0.00047 J	<0.005 UJ	0.112	0.0634	0.176
	ROST4PZC-ROX-011515	1/15/2015	34.95 - 44.95	41.65	NE	0.0035	<0.005		<0.005		0.00036 J	<0.005	<0.001	<0.005	0.00056 J	<0.005	0.0005 J	<0.005	<0.005	<0.001	<0.001		0.0011 J	<0.005	<0.005	0.0026	0.0031	0.0057

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethylbenzene	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
				Screening Values (mg/L)		0.7 [1]	0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.66 [3]	0.07 [1]	0.14 [1]	0.7 [3]	0.1 [1]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
T-12	T12-ROX-050912	5/9/2012	46.72 - 72.72	42.62	NE	1.88	<0.025		<0.025		0.0572	<0.025	<0.005	0.0924	0.101	<0.025	0.388	<0.025	<0.025	<0.005	<0.005		0.476	0.0765	<0.025	2.87	0.251	3.12
	T12-ROX-080212	8/2/2012		41.92	NE	0.573	<0.05		<0.05		0.0297 J	<0.05	<0.01	0.0625	0.0486 J	<0.05	0.197	<0.05	<0.05	<0.01	<0.01		0.403	0.0474 J	<0.05	1.32	0.0709	1.39
	T12-ROX-110512	11/5/2012		43.91	NE	1.73	<0.05		<0.05		0.0468 J	<0.05	<0.01	0.125	0.0831	<0.05	0.322	<0.05	<0.05	<0.01	<0.01		0.385	0.0543	<0.05	2.55	0.176	2.73
	T12-ROX-011813	1/18/2013		44.50	NE	0.426	<0.025		<0.025		0.031	<0.025	<0.005	0.129	0.0466	<0.025	0.184	<0.025	<0.025	<0.005	<0.005		0.42	0.0407	<0.025	1.11	0.0252	1.13
	T12-ROX-041513	4/15/2013		44.99	NE	1.03	<0.05		<0.05		0.0405 J	<0.05	<0.01	0.266 J	0.076	<0.05	0.592	<0.05	<0.05	<0.01	<0.01		0.309	<0.05	<0.05	1.2	0.104	1.3
	T12-ROX-071613	7/16/2013		42.33	NE	0.45	<0.005 UJ		<0.005		0.0363 J	<0.005	<0.001	0.122 J	0.0627 J	<0.005	0.186 J	<0.005	<0.005	<0.001	<0.001		0.361 J	0.0238 J	<0.005 UJ	0.794 J	0.0145 J	0.808 J
	T12-ROX-101513	10/15/2013		43.73	NE	1.82	<0.025		<0.025		0.0618	<0.025	<0.005	0.215 J	0.114	<0.025	0.697	<0.025	<0.025	<0.005	<0.005		0.575	0.0607	<0.025	2.43	0.139	2.57
	T12-ROX-012414	1/24/2014		45.26	NE	0.518	<0.005		<0.005		0.0362	<0.005	<0.001	0.171	0.0676	<0.005	0.421	<0.005	<0.005	<0.001	<0.001		0.526	0.0507	<0.005	1.12	0.0469	1.23
	T12-ROX-041514	4/15/2014		46.72	NE	0.376	<0.005		<0.005		0.0306	<0.005	<0.001	0.12	0.0534	<0.005	0.406	<0.005	<0.005	<0.001	<0.001		0.22 J	0.0339	<0.005	0.841	0.0401	0.864
	T12-ROX-070814	7/8/2014		45.13	NE	0.614	<0.005		<0.005		0.0577 J	<0.005	<0.001	0.146	0.0912	<0.005	0.686	<0.005	<0.005	<0.001	<0.001		0.425	0.0589	<0.005	1.25	0.0909	1.3
	T12-ROX-101714	10/17/2014		44.40	NE	1.75	<0.05		<0.05		0.0459 J	<0.05	<0.01	0.184 J	0.0707	<0.05	0.722	<0.05 UJ	<0.05	<0.01	<0.01		0.244	0.0391 J	<0.05 UJ	2.25	0.114	2.36
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	0.596	<0.05		<0.05		0.0432 J	<0.05	0.0033 J	0.196	0.0745	<0.05	0.337	<0.05	<0.05	<0.01	<0.01		0.391	0.0521	<0.05	1.3	0.0747	1.38

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-050112	5/1/2012	48.80 - 58.80	39.09	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00032 J	<0.011
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.00011	<0.00011	<0.011	<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	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW1-ROX-121712	12/17/2012		41.22	NE																						
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.000024 U	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0011 U	<0.011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.000026 U	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	0.000027 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00065 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.003 J J	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0057 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW1-ROX-011215	1/12/2015	48.80 - 58.80	42.73	NE	0.00003 J	0.000027 J	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-02	MW2-ROX-050112	5/1/2012	49.87 - 59.87	40.25	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	0.0055 J
	MW2-ROX-073012	7/30/2012		40.60	NE	0.000051 J	<0.00011	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00036 J	0.0045 J
	MW2-ROX-102612	10/26/2012		42.35	NE	0.000093 J	<0.00011	<0.011	<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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0034 J
	MW2-ROX-011113	1/11/2013		42.94	NE	0.00016	0.000019 J	<0.011 UJ	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.005 J
	MW2-ROX-071113	7/11/2013		40.82	NE	0.000035 J	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.00063 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.005 J
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.00011	0.00018	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW2-ROX-071414	7/14/2014		43.13	NE	0.000084 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00037 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW2-ROX-011615	1/16/2015	49.87 - 59.87	44.1	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-03	MW3-ROX-043012	4/30/2012	34.67 - 44.67	26.19	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.00011	<0.00011	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.00059 U	<0.01
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.0001	0.000023 J	<0.01 UJ	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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW3-ROX-071113	7/11/2013		26.32	NE	0.000028 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0038	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00038 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0054	0.0013 J	<0.0054	<0.011	<0.0054	0.000028 J	<0.0001	<0.0022	<0.011	<0.0054	<0.011
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW3-ROX-011515	1/15/2015	34.67 - 44.67	29.65	NE	0.000027 J	<0.00011	<0.011	0.000021 J J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
MW-04	MW4-ROX-050312	5/3/2012	46.06 - 56.06	37.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.0014 J	<0.01
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.0012 J	<0.01
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.00012	<0.00012	<0.012 UJ	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW4-ROX-030413	3/4/2013		40.20	NE																						
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.000036 U	<0.00011	<0.011	<0.00011	<0.000055	0.00004 J	0.000034 J	0.000061 J	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0055 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00011	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW4-ROX-012115	1/21/2015	46.06 - 56.06	41.27	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-05	MW5-ROX-050312	5/3/2012	33.97 - 43.97	25.89	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	0.0011 J	<0.01
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW5-ROX-011113	1/11/2013		28.75	NE	0.000071 J	0.000066 J	<0.011 UJ	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	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.0001	<0.0001	<0.01	<0.0001	0.0001 J	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00011	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW5-ROX-071414	7/14/2014		28.59	NE	0.000075 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW5-ROX-011515	1/15/2015	33.97 - 43.97	29.34	NE	0.00012	<0.00011	<0.011	0.00007 J J	0.000035 J J	<0.00011	<0.000053	0.00002 J J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000025 J J	0.000017 J J	<0.0021	<0.011	<0.0053	<0.011
MW-06A	MW6A-ROX-050212	5/2/2012	34.83 - 44.83	27.77	NE	<0.0001	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.0051	<0.0001	0.000066 J	<0.002	<0.01	<0.0051	<0.01
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.00011	<0.00011 UJ	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6A-ROX-100713	10/7/2013		28.87	NE	0.0001 J	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.00082 U	<0.011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	0.000093 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	0.00078 J	<0.011
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00057 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.00066 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.00011	0.000075 J	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-011415	1/14/2015	34.83 - 44.83	31.54	NE	0.000089 J	0.00004 J	<0.011	0.00006 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-06B	MW6B-ROX-050212	5/2/2012	64.05 - 69.05	27.82	NE	<0.0001	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.00011	<0.00011 UJ	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.00057 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00084 U	<0.011
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	0.000051 J	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000042 J	<0.0022	<0.011	<0.0054	<0.011
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6B-ROX-011415	1/14/2015	64.05 - 69.05	31.59	NE	<0.00011	0.000016 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-06C	MW6C-ROX-050212	5/2/2012	84.95 - 89.95	27.62	NE	<0.0001	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0001	<0.0001 UJ	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.00056 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0013 U	<0.011
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000041 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	0.000034 J	<0.00011	<0.000056	0.000035 J	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000037 J	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6C-ROX-011415	1/14/2015	84.95 - 89.95	31.41	NE	0.000017 J	<0.00011	<0.011	0.000024 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-06D	MW6D-ROX-050212	5/2/2012	104.72 - 109.72	27.45	NE	<0.0001	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.00022 J	<0.01
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.00011	<0.00011 UJ	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.001 U	<0.011
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.016	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6D-ROX-011415	1/14/2015	104.72 - 109.72	31.26	NE	<0.00011	<0.00011	<0.011	0.000026 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
MW-07	MW7-ROX-050412	5/4/2012	42.92 - 52.92	39.19	NE	0.00028	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW7-ROX-080712	8/7/2012		39.50	NE	0.00024	0.000037 J	<0.01 UJ	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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.00058 U	<0.01
	MW7-ROX-103012	10/30/2012		41.23	NE	0.00031	<0.00012	<0.012 UJ	<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	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	0.00034	<0.00011	<0.011 UJ	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW7-ROX-011513	1/15/2013		42.21	NE	0.00073	0.00011	<0.011 UJ	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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	0.00066	0.000093 J	<0.01 UJ	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-041013	4/10/2013		42.70	NE	0.0012	0.00015	<0.011	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	<0.0054	<0.00011	<0.00011	0.00083 J	<0.011	<0.0054	<0.011
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	0.0012	0.00016	<0.011	0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00088 J	<0.011	<0.0053	<0.011
	MW7-ROX-071713	7/17/2013		39.60	NE	0.00019	0.000031 J	<0.011	0.000028 J	0.00004 J	0.000044 J	0.000045 J	0.00008 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000077 J	<0.0022	<0.011	<0.0054	<0.011
	MW7-ROX-101613	10/16/2013		40.64	NE	0.00035	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW7-ROX-013014	1/30/2014		42.94	NE	0.00028	<0.0001	<0.01	0.00029	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW7-ROX-041614	4/16/2014		43.79	NE	0.00034	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-071614	7/16/2014		42.05	NE	0.00024	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.00022	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-101614	10/16/2014		41.31	NE	0.00024	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW7-ROX-012215	1/22/2015	42.92 - 52.92	43.45	NE	0.00026	0.000051 J	<0.011	0.000056 J J	<0.00005 U	0.000028 J	0.00013 J	0.000034 J	0.000026 J	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.000046 U	0.000025 J	<0.0021	<0.011	<0.0053	0.00072 J
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	0.00025	0.000044 J	<0.01	0.00046 J	<0.000052	<0.0001	<0.000052 UJ	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00039 J	<0.0052	<0.01	<0.0052	<0.000021 U	<0.0001	<0.0021	<0.01	<0.0052	0.00071 J
MW-08	MW8-ROX-050412	5/4/2012	33.60 - 43.60	30.21	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	0.00044 J	<0.011	<0.0053	0.0595
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.0001	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0557
	MW8-ROX-080712	8/7/2012		30.97	NE	0.00023	0.00013	<0.011 UJ	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	<0.0054	<0.00011	<0.00011	0.00035 J	<0.011	<0.0016 U	0.015
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	0.0002	0.00029	<0.011 UJ	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	<0.0056	<0.00011	<0.00011	0.0004 J	<0.011	<0.0018 U	0.0158
	MW8-ROX-103012	10/30/2012		32.32	NE	0.00026	0.00011	<0.011 UJ	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	<0.0053	0.00066 B	0.00059 B	<0.0021	<0.011	<0.0053	0.0085 J
	MW8-ROX-011513	1/15/2013		33.30	NE	0.00017	0.000085 J	<0.011 UJ	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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.019
	MW8-ROX-041013	4/10/2013		33.77	NE	0.00018	0.000059 J	<0.011	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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0358
	MW8-ROX-071713	7/17/2013		30.43	NE	0.0002	<0.0001	<0.01	0.000049 J	<0.000052	0.000021 J	<0.000052	0.00004 J	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.009 J
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	0.00019	0.000056 J	<0.011	0.000061 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0004 J	<0.011	<0.0054	0.0089 J
	MW8-ROX-101613	10/16/2013		31.59	NE	0.00021	0.000089 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0005 J	<0.011	<0.0054	0.0066 J
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	0.0002	0.000058 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.0004 J	<0.012	<0.0059	0.0062 J
	MW8-ROX-013014	1/30/2014		34.02	NE	0.0002	0.000089 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00053 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.0005 J	<0.01	<0.0051	0.0124
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	0.00021	0.000083 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00072 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00053 J	<0.011	<0.0054	0.0121
	MW8-ROX-041614	4/16/2014		34.73	NE	0.00018	0.000074 J	<0.011	<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	<0.0056	<0.00011	<0.00011	0.0005 J	<0.011	<0.0056	<0.011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	0.00016	0.000063 J	<0.01	<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	<0.0051	<0.0001	<0.0001	0.00045 J	<0.01	<0.0051	<0.01
	MW8-ROX-071614	7/16/2014		33.01	NE	0.00018	0.000068 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00041 J	<0.01	0.00057 J	<0.01
	MW8-ROX-101614	10/16/2014		32.23	NE	0.00021	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0099 J
	MW8-ROX-012215	1/22/2015	33.60 - 43.60	34.22	NE	0.00027	0.000073 J	<0.01	0.000035 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0172

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-09	MW9-ROX-050312	5/3/2012	46.45 - 56.45	41.03	NE													0.0016 J J	0.00045 JB J								
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW9-ROX-011113	1/11/2013		43.90	NE	0.000068 J	0.000064 J	<0.011 UJ	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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0001 UJ	<0.0001 UJ	<0.01 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	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0016 UJ	<0.01 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	0.000035 J	<0.00011	<0.00011		<0.011	<0.0056	<0.0022	<0.0056			<0.00011	<0.00011	<0.0022		<0.0056	
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	0.000024 J	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00054 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00036 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW9-ROX-011315	1/13/2015	46.45 - 56.45	44.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
MW-10	MW10-ROX-050112	5/1/2012	44.43 - 54.43	40.86	NE	<0.0001	<0.0001	<0.01 UJ	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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.00011	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-121712	12/17/2012		43.08	NE																						
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.0001	<0.0001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0018 U	<0.011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0027 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000096 J	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00054 J	<0.0053	<0.011 UJ	<0.0054 UJ	<0.00011	0.000074 J	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.00068 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00052 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW10-ROX-011315	1/13/2015	44.43 - 54.43	44.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	0.00042 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
MW-11	MW11-ROX-043012	4/30/2012	41.66 - 51.66	38.66	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.00012	<0.00012	<0.012 UJ	<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	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.00011	<0.00011	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00042 U	<0.011
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.0001 UJ	<0.0001 UJ	<0.01 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	<0.005 UJ	<0.0001 UJ	<0.0001 UJ	<0.002 UJ	<0.01 UJ	<0.005 UJ	<0.01 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0052 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0011 U	<0.011
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW11-ROX-011315	1/13/2015	41.66 - 51.66	41.93	NE	<0.00011	<0.00011	<0.011	<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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-12	MW12-ROX-043012	4/30/2012	41.92 - 51.92	38.98	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.00011	<0.00011	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.00077 U	<0.011
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.00011	<0.00011	<0.011	<0.00011	0.00012 J	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.00062 U	<0.011 UJ
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0001	<0.0001	<0.01	<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 UJ	<0.0052 UJ	<0.0001	<0.0001	<0.0021	<0.01 UJ	<0.0052	<0.01 UJ
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.00011	<0.00011	<0.01	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.01	<0.01 UJ	<0.0051	<0.00039 U	<0.0051	<0.01	<0.0051	<0.00011	<0.00011	<0.002	<0.01	<0.0051	<0.01
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW12-ROX-011215	1/12/2015	41.92 - 51.92	42.33	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-13	MW13-ROX-050712	5/7/2012	25.57 - 35.57	25.79	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW13-ROX-080812	8/8/2012		26.67	NE	0.0001 J	0.00019	<0.011 UJ	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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.00011	<0.000063 U	<0.011	<0.000058 U	<0.00014 U	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00079 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW13-ROX-100913	10/9/2013		26.94	NE	0.000098 J	0.000071 J	<0.01	<0.0001	0.000022 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00068 J	<0.0052	<0.01	<0.0052	0.000034 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW13-ROX-041114	4/11/2014		30.15	NE	0.00013	0.000066 J	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.00011	0.000061 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.00012	0.00019	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW13-ROX-011615	1/16/2015	25.57 - 35.57	29.09	NE	0.00014	0.00009 J	<0.011	0.000053 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.00003 J	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-14	MW14-ROX-051012	5/10/2012	33.42 - 43.42	NM	NE	0.00046	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	0.00084 J	<0.0052	<0.01
	MW14-ROX-080312	8/3/2012		NM	NE	0.00095	0.00015	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	0.00076 J	0.00096 J	<0.0053	<0.011
	MW14-ROX-103112	10/31/2012		32.02	NE	0.00074	0.00008 J	<0.01 UJ	<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	<0.005	<0.0001	<0.0001	0.0003 J	<0.01	<0.005	<0.01 UJ
	MW14-ROX-011813	1/18/2013		33.05	NE	0.00092	0.00013	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW14-ROX-041113	4/11/2013		33.31	NE	0.00068	0.000098 J	<0.011	<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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00046 B	<0.000062 U	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00066 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW14-ROX-101013	10/10/2013		30.80	NE	0.00065	0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	0.00019 J	<0.011	<0.0057	<0.011
	MW14-ROX-012914	1/29/2014		33.67	NE	0.00062	0.00012	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00056 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW14-ROX-041114	4/11/2014		34.30	NE	0.00037	0.000089 J	<0.012	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00011	<0.00011	<0.0024	<0.012	<0.006	<0.012
	MW14-ROX-070714	7/7/2014		32.82	NE	0.00033	0.000063 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00048 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW14-ROX-101414	10/14/2014		31.65	NE	0.00054	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW14-ROX-011615	1/16/2015	33.42 - 43.42	33.58	NE	0.00027	0.00006 J	<0.011	0.000015 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0001 UJ	<0.0001 UJ	<0.01 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	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0052 UJ	<0.01 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00061 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00059	<0.00012	<0.00059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.00011	<0.00011	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW16-ROX-011315	1/13/2015	37.06 - 47.06	43.59	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.00018	<0.0001	<0.01 UJ	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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	0.0146
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.00018	<0.00011	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	0.0149
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00018	0.000049 J J	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269
	MW22-ROX-071113	7/11/2013		39.35	NE	0.00026	0.00048	<0.011	0.000035 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0017 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.104
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00018	0.00047	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.0021 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0978
	MW22-ROX-100913	10/9/2013		40.39	NE	0.00019	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0863
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0826
	MW22-ROX-012014	1/20/2014		42.49	NE	0.00015	<0.00011	<0.053	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.053	<0.053	<0.027	<0.011	<0.027	<0.053	<0.027	<0.00011	<0.00011	<0.011	<0.053	<0.027	0.0399 J
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	0.00014	<0.00011	<0.054	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.054	<0.054	<0.027	<0.011	<0.027	<0.054	<0.027	<0.00011	<0.00011	<0.011	<0.054	<0.027	0.0364 J
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0001 J	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.0316 J
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	0.00012	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.032 J
	MW22-ROX-071414	7/14/2014		41.85	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00045 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0281
	MW22-ROX-101014	10/10/2014		41.43	NE	0.00029	0.00019	<0.013	0.00019	<0.000063	<0.00013	<0.000063	<0.00013	<0.00013	<0.013	<0.013	<0.0063	<0.0025	<0.0063	<0.013	<0.0063	<0.00013	<0.00013	<0.0025	<0.013	<0.0063	<0.013
	MW22-ROX-011615	1/16/2015	37.88 - 47.88	42.19	NE	0.00015	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0329
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.0002	<0.005	<0.005	<0.005
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0001	<0.0001 UJ	<0.01 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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW24-ROX-071113	7/11/2013		40.35	NE	0.000024 J	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW24-ROX-011315	1/13/2015	38.89 - 48.89	43.17	NE	0.000074 J	0.000077 J	<0.011	0.000022 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.00011	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0025 J
	MW25-ROX-012215	1/22/2015	35.59 - 45.59	38.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00059 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW26-ROX-011215	1/12/2015	38.15 - 48.15	41.09	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW27-ROX-011515	1/15/2015	39.79 - 49.79	42.06	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	0.0001 J J	0.00013 J	0.000029 J J	0.000078 J J	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	0.000051 J J	<0.0021	<0.011	<0.00029 U	<0.011
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW28-ROX-011515	1/15/2015	33.61 - 43.61	41.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	0.0007 J	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.0012 J
P-54	P54-ROX-050412	5/4/2012	38.00 - 63.00	38.77	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P54-ROX-080212	8/2/2012		38.95	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P54-ROX-011113	1/11/2013		41.56	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P54-ROX-041013	4/10/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P54-ROX-071113	7/11/2013		39.07	NE	0.000032 J	0.000016 J	<0.01	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00052 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P54-ROX-100813	10/8/2013		39.94	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P54-ROX-011514	1/15/2014		42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00058 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	P54-ROX-071114	7/10/2014		41.71	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P54-ROX-100814	10/8/2014		40.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P54-ROX-011415	1/14/2015	38.00 - 63.00	41.79	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
P-55	P55-ROX-050912	5/9/2012	39.82 - 64.82	42.44	NE	0.00036	0.000095 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	0.00069	0.00019	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	0.001 J	<0.01	<0.01	0.004 J
	P55-ROX-012113	1/21/2013		43.60	NE	0.00054	0.00014	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.001 J	<0.01	0.00073 J	0.0024 J
	P55-ROX-041513	4/15/2013		43.63	NE	0.00073	0.00021	<0.01	<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	<0.0052	<0.0001	<0.0001	0.0017 J	<0.01	<0.0052	<0.01
	P55-ROX-071613	7/16/2013		40.06	NE	0.00066	0.0002	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.00066 U	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	0.0024 J
	P55-ROX-101013	10/10/2013		41.67	NE	0.00071	0.00019	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.0006 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0016 J	<0.011	<0.0055	0.0014 J
P-56	P56-ROX-050812	5/8/2012	40.82 - 65.82	43.09	NE	0.00057	0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P56-ROX-080612	8/6/2012		43.60	NE	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	<0.0051	<0.0001	<0.0001	0.00051 J	<0.01	<0.0014 U	<0.01
	P56-ROX-103112	10/31/2012		44.80	NE	0.0011	<0.0001	<0.01 UJ	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	<0.0051	<0.0001	<0.0001	0.00066 J	<0.01	<0.0051	<0.01 UJ
	P56-ROX-011713	1/17/2013		45.65	NE	0.00039	0.000083 J	<0.01 UJ	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0044	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P56-ROX-041213	4/12/2013		46.12	NE	0.00053	0.000088 J	<0.011	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	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P56-ROX-071513	7/15/2013		43.25	NE	0.00065	0.00013	<0.011	0.00014	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	<0.00011	<0.00011	0.00075 J	<0.011	<0.0055	0.0086 J
	P56-ROX-101013	10/10/2013		44.48	NE	0.0006	0.000092 J	<0.011	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	<0.0055	<0.00011	<0.00011	0.00059 J	<0.011	<0.0055	0.0042 J
	P56-ROX-012214	1/22/2014		46.35	NE	0.00055	<0.0001	<0.01	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00047 J	<0.01	<0.0052	<0.01
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051	0.000081 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.00067 J	<0.012	<0.0059	<0.012
	P56-ROX-070814	7/8/2014		45.97	NE	0.00035	0.000081 J	<0.011 UJ	0.0001 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00049 J	<0.011	<0.0056	<0.011
	P56-ROX-101314	10/13/2014		45.05	NE	0.00057	0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.001 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00055 J	<0.011	<0.0054	<0.011
	P56-ROX-011915	1/19/2015	40.82 - 65.82	46.58	NE	0.00068	0.000079 J	<0.011	0.000097 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
P-57	P57-ROX-050712	5/7/2012	40.46 - 65.46	42.92	NE	0.00033	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P57-ROX-080612	8/6/2012		43.53	NE	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	<0.005	<0.0001	<0.0001	0.00079 J	<0.01	<0.00096 U	0.0029 J
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	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	<0.005	<0.0001	<0.0001	0.00073 J	<0.01	<0.001 U	0.0029 J
	P57-ROX-110512	11/5/2012		44.98	NE	0.00053	<0.0001	<0.01	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	<0.005	<0.0001	0.000049 J	0.0006 J	<0.01	<0.005	<0.01 UJ
	P57-ROX-012913	1/29/2013		45.92	NE	0.00061	0.00013	<0.012 UJ	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	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	0.0023 J J
	P57-ROX-041113	4/11/2013		46.29	NE	0.00063	0.00012	<0.01	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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P57-ROX-071613	7/16/2013		43.38	NE	0.00047	0.0001 J	<0.011	0.000077 J	0.00012	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.0022	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.00088 J	<0.011	<0.0056	0.002 J
	P57-ROX-101413	10/14/2013		44.38	NE	0.00045	0.000071 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0012 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00082 J	<0.011	<0.0054	0.0029 J
	P57-ROX-020314	2/3/2014		46.57	NE	0.00041	0.000075 J	<0.011	<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	<0.0053	<0.00011	<0.00011	0.00067 J	<0.011	<0.0053	<0.011
	P57-ROX-041514	4/15/2014		46.70	NE	0.00036	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0007 J	<0.011	<0.0056	<0.011 UJ
	P57-ROX-070814	7/8/2014		45.95	NE	0.00029	0.000069 J	<0.011 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	<0.0053	<0.00011	<0.00011	0.0007 J	<0.011	<0.0053	<0.011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00029	0.000075 J	<0.011 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	<0.0054	<0.00011	<0.00011	0.00071 J	<0.011	<0.0054	<0.011
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	0.0003	<0.00012	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.0023	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	P57-ROX-101414	10/14/2014		45.00	NE	0.00036	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	0.00059	0.00014	<0.011	0.000073 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0013 J	<0.011	<0.0053	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-58	P58-ROX-050712	5/7/2012	40.21 - 65.21	40.90	NE	0.00059	0.00019	<0.01	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	<0.0051	<0.0001	<0.0001	0.0017 J	<0.01	<0.0051	<0.01
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	0.00044	0.00015	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P58-ROX-080612	8/6/2012		41.63	NE	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	<0.005	0.0001	<0.0001	0.0022	<0.01	<0.005	<0.01
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	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	<0.005	0.000099 J	<0.0001	0.0025	<0.01	<0.005	<0.01
	P58-ROX-110612	11/6/2012		43.09	NE																						
	P58-ROX-121012	12/10/2012		43.09	NE	0.00093	0.00024	<0.011	0.00083	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0103	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.002 J	<0.011	<0.0054	<0.011
	P58-ROX-012213	1/22/2013		44.21	NE	0.0011	0.0006	<0.011 UJ	<0.00011	0.00038	0.00022	0.00012	0.00012	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00039	0.000068 J	0.0038	<0.011	<0.0054	<0.011
	P58-ROX-041113	4/11/2013		44.40	NE	0.0015	0.0005	<0.011	<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	<0.0054	0.00032	<0.00011	0.0044	<0.011	<0.0054	<0.011
	P58-ROX-071613	7/16/2013		41.49	NE	0.00076	0.00027	<0.011	0.000096 J	0.00018	0.000073 J	0.000045 J	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	0.00012	<0.00011	0.0025	<0.011	<0.0055	<0.011
	P58-ROX-101413	10/14/2013		42.19	NE	0.00084	<0.00011	<0.011	<0.00011	<0.000054	0.000067 J	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0099	<0.0054	<0.011	<0.0054	0.000099 J	<0.00011	0.0024	<0.011	<0.0054	0.0016 J
	P58-ROX-020314	2/3/2014		44.66	NE	0.00061	0.00018	<0.01	<0.0001	0.000035 J	0.000047 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000079 J	<0.0001	0.0016 J	<0.01	<0.0052	<0.01
	P58-ROX-041514	4/15/2014		45.66	NE	0.0011	0.00072	0.0028 J	0.00071	0.00082	0.00063	0.00072	0.00071	0.00071	<0.011 UJ	0.0051 J	0.0015 J	<0.00099 U	0.00091 J	0.0044 J	0.0043 J	0.00073	0.00075	0.0023	<0.011 UJ	0.00077 J	<0.011 UJ
	P58-ROX-071814	7/18/2014		43.80	NE	0.00067	0.00021	<0.011	<0.00011	0.000083	0.000086 J	0.000045 J	0.000035 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.0018 J	<0.011	<0.0055	<0.011
	P58-ROX-101514	10/15/2014		43.14	NE	0.00058	0.00023	<0.011	<0.00011	0.00013	0.00011	0.000074	0.000065 J	<0.00011	<0.011	<0.011	0.014	<0.00042 U	<0.0054	<0.011	<0.0054	0.00018	<0.00011	0.0022	<0.011	<0.0054	<0.011
	P58-ROX-012315	1/23/2015	40.21 - 65.21	45.32	NE	0.0006	0.00018	<0.011	0.000053 J	0.000026 J	0.00002 J	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000032 J	<0.00011	0.0019 J	<0.011	<0.0053	<0.011
P-59	P59-ROX-050912	5/9/2012	47.91 - 72.91	44.11	NE	0.00022	<0.0001	<0.01	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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0085 J
	P59-ROX-080212	8/2/2012		44.07	NE	0.00042	0.0001 J	<0.011 UJ	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	<0.0053	<0.00011	<0.00011	0.00036 J	<0.011	<0.0053	0.0088 J
	P59-ROX-110212	11/2/2012		45.98	NE	0.00043	<0.00011	<0.011	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	<0.0053	<0.00011	<0.00011	0.00031 J	<0.011	<0.0053	0.0102 J J
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	0.00042	<0.0001	<0.01	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	<0.0052	<0.0001	<0.0001	0.00029 J	<0.01	<0.0052	0.0092 J J
	P59-ROX-013013	1/30/2013		46.60	NE	0.00047	<0.0001	<0.01 UJ	0.00012	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0041	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0581
	P59-ROX-041213	4/12/2013		46.95	NE	0.00057	0.00013	<0.011	<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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0919
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	0.00058	0.00012	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0914
	P59-ROX-071613	7/16/2013		44.13	NE	0.00035	0.000071 J	<0.011	0.000092 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054 UJ	<0.0022	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00041 J	<0.011	<0.0054	0.0583
	P59-ROX-101013	10/10/2013		45.50	NE	0.00055	0.000084 J	<0.011	0.00021	0.000068	<0.00011	0.000039 J	<0.00011	<0.00011	<0.011 UJ	0.0009 J	<0.0054	0.00069 J	<0.0054	<0.011	<0.0054	0.000088 J	<0.00011	<0.0022	<0.011	<0.0054	0.078
	P59-ROX-020314	2/3/2014		47.35	NE	0.00046	<0.0001	<0.01	0.00018	0.000035 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000046 J	<0.0001	<0.0021	<0.01	<0.0052	0.147 J
	P59-ROX-041514	4/15/2014		48.60	NE	0.0013	<0.00011	<0.011	0.00018	0.00006	0.000042 J	0.000044 J	0.000035 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.0001 J	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ
	P59-ROX-070814	7/8/2014		47.69	NE	0.0015	0.000091 J	<0.011 UJ	0.00012	0.000029 J	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	0.000027 J	<0.00011	<0.0023	<0.011	<0.0057	0.17
	P59-ROX-101414	10/14/2014		46.18	NE	0.00045 J	<0.00054	<0.011	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	0.0035 J	<0.0022	<0.0054	<0.011	<0.0054	<0.00054	<0.00054	<0.0022	<0.011	<0.0054	0.0492
	P59-ROX-011915	1/19/2015	47.91 - 72.91	47.42	NE	0.00075	0.00013	<0.011	0.00021	0.000038 J	0.000021 J	<0.000054	0.00002 J	<0.00011	<0.011	<0.011	<0.0054	0.00042 J	<0.0054	<0.011	<0.0054	0.000047 J	<0.00011	<0.0022	<0.011	<0.0054	0.153
P-66	P66-ROX-051012	5/10/2012	34.72 - 59.72	32.48	NE	0.00078	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	0.0018 J	<0.01	<0.005	<0.01
	P66-ROX-080312	8/3/2012		30.51	NE	0.00073	0.00025	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P66-ROX-103112	10/31/2012		34.75	NE	0.00078	0.00022	<0.01 UJ	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	<0.005	<0.0001	<0.0001	0.0019 J	<0.01	<0.005	<0.01 UJ
	P66-ROX-011813	1/18/2013		35.70	NE	0.00074	0.00034	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	0.0018 J	<0.011	<0.0053	<0.011
	P66-ROX-041113	4/11/2013		36.03	NE	0.0011	0.00028	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0025	<0.011	<0.0053	<0.011
	P66-ROX-071213	7/12/2013		33.20	NE	0.00087	<0.00011	<0.011	<0.0002 U	0.00018 B	<0.00015 U	0.00017 B	<0.00019 U	0.00015	<0.011 UJ	<0.011	<0.0056	0.0124	<0.0056	<0.011	<0.0056	0.00017	0.00017	0.0016 J	<0.011	<0.0056	<0.011
	P66-ROX-101013	10/10/2013		33.66	NE	0.00066	0.0002	<0.011	<0.00011	0.000028 J	<0.00011	<0.000056	0.000036 J	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	<0.011
	P66-ROX-110713	11/7/2013		33.66	NE																						
	P66-ROX-012914	1/29/2014		36.39	NE	0.00099	0.00032	<0.011	<0.00011	0.000039 J	0.000044 J	0.000048 J	0.000052 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000047 J	0.000035 J	0.0019 J	<0.011	<0.0053	<0.011
	P66-ROX-041114	4/11/2014		37.10	NE	0.00058	0.00017	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.00068 U	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	P66-ROX-070714	7/7/2014		35.60	NE	0.00033	0.00016	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P66-ROX-101414	10/14/2014		34.48	NE	0.00045	0.00018	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0012 J	<0.011	<0.0055	<0.011
	P66-ROX-011615	1/16/2015	34.72 - 59.72	36.62	NE	0.00067	0.00026	<0.011	0.000065 J J	0.00003 J J	<0.00011 UJ	<0.000053 UJ	<0.00011	<0.00011 UJ	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000029 J J	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	0.00068	0.00027	<0.011	0.00031 J	0.00043 J	0.0003 J	0.00032 J	0.00015	0.00023 J	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00032 J	0.000062 J	<0.0022	<0.011	<0.0054	<0.011
P-74	P74-ROX-050712	5/7/2012	44.43 - 69.43	39.92	NE	<0.0001	<0.0001	<0.01	<0.0001	0.00012	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P74-ROX-080612	8/6/2012		40.71	NE	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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.0012 U	0.0039 J
	P74-ROX-110112	11/1/2012		41.72	NE	0.00023	<0.0001	<0.01 UJ	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	<0.0052	<0.0001	<0.0001	0.00031 J	0.001 J	<0.0052	0.008 J J
	P74-ROX-011713	1/17/2013		42.65	NE	0.00019	0.0001	<0.01 UJ	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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0021 J
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P74-ROX-071513	7/15/2013		40.11	NE	<0.000063 U	<0.00011	<0.011	0.000032 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	0.0013 J	<0.0054	<0.011
	P74-ROX-101413	10/14/2013		41.72	NE	0.0002	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00097 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00033 J	0.0012 J	<0.0054	0.0019 J
	P74-ROX-012414	1/24/2014		43.35	NE	0.00023	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00063 J	0.00097 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P74-ROX-041514	4/15/2014		44.74	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012 UJ
	P74-ROX-070814	7/8/2014		43.02	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P74-ROX-101414	10/14/2014		41.48	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	0.00096 J	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P74-ROX-011915	1/19/2015	44.43 - 69.43	43.47	NE	0.00018	0.000061 J	<0.011	0.000046 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.02

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050812	5/8/2012	48.17 - 63.17	42.75	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93A-ROX-080912	8/9/2012		43.66	NE	0.00015	<0.00011	<0.011	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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.00022 U	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00027 J	<0.01	<0.0052	<0.01
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	0.00029 B	<0.0001	<0.01	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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93A-ROX-012313	1/23/2013		45.89	NE	0.00016	<0.0001	<0.01 UJ	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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	0.00014	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.011	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01
	P93A-ROX-041113	4/11/2013		46.29	NE	0.00023	<0.0001	<0.01	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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	0.00021	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.00011	0.000032 J	<0.011	0.00003 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00024 J	<0.011	<0.0056	<0.011
	P93A-ROX-101113	10/11/2013		44.18	NE	0.00017	<0.0001	<0.01	<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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-012914	1/29/2014		46.53	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93A-ROX-041714	4/17/2014		47.41	NE	0.00013	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93A-ROX-071814	7/18/2014		45.70	NE	0.00017	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.0041	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.00037 U	<0.011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	0.00016	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P93A-ROX-101514	10/15/2014		45.06	NE	0.0002	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0004 U	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0003 J	<0.01	<0.0052	<0.01
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	0.00022 J	<0.00011 UJ	<0.011 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.011 UJ	<0.011 UJ	0.0044 J J	<0.0041 UJ	<0.0054 UJ	<0.011 UJ	<0.0054 UJ	<0.00011 UJ	<0.00011 UJ	0.00033 J J	<0.011 UJ	<0.0054 UJ	<0.011 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.001	<0.001	<0.005	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	<0.0002	<0.005	<0.005	<0.005	<0.005
P-93B	P93B-ROX-050812	5/8/2012	74.60 - 76.60	42.79	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.00011	0.000087 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0036	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00051 U	<0.011
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0001	0.000073 JB	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.000047 U	0.000058 J	<0.01	<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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93B-ROX-012313	1/23/2013		45.89	NE	0.00014	0.000072 J	<0.011 UJ	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	<0.0053	0.00012	0.00012	<0.0021	<0.011	<0.0053 UJ	0.0021 J
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.00011	<0.00011	<0.011	<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	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.0001	0.000065 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0001	0.000091 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-012814	1/28/2014		46.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.00072 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0012 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0015 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00045 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93B-ROX-012315	1/23/2015		47.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00063 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93B-ROX-012315-DUP	1/23/2015	74.60 - 76.60	47.24	NE	0.000019 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93B-ROX-021915	2/19/2015		47.24	NE																					
P-93C	P93C-ROX-050812	5/8/2012	94.26 - 96.26	42.68	NE	<0.00011	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	P93C-ROX-080912	8/9/2012		43.57	NE	0.000089 J	0.000022 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0043	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.00046 U	<0.01
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.0001	<0.0001	<0.01 UJ	<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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.0049	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.000045 U	<0.00011	<0.011	0.000021 J	<0.000056	0.00015	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93C-ROX-080813	8/8/2013		43.31	NE																					
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93C-ROX-021915	2/19/2015		48.22	NE																					

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93D	P93D-ROX-050812	5/8/2012	125.75 - 127.75	42.96	NE	<0.0001	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93D-ROX-080812	8/8/2012		43.71	NE	0.00017	0.000051 J	<0.01 UJ	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93D-ROX-110812	11/8/2012		NM	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.000026 U	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00057 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.0001	<0.0001	<0.01	<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 UJ	<0.005 UJ	<0.0001	<0.0001	<0.002	<0.01 UJ	<0.005	<0.01 UJ
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0045	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0005 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93D-ROX-110414	11/4/2014		45.14	NE																						
	P93D-ROX-012315	1/23/2015	125.75 - 127.75	42.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-021915	2/19/2015		42.28	NE																						
P-114	P114-ROX-050912	5/9/2012	32.67 - 52.67	28.09	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0001	0.000029 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0039	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P114-ROX-012313	1/23/2013		30.22	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0059	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0001	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P114-ROX-071813	7/18/2013		27.22	NE	0.00013 B	<0.00011	<0.011	0.00011	0.000045 J	0.000034 J	0.000064	0.000067 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	0.000073 J	<0.0022	<0.011	<0.0055	<0.011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.00011	<0.00011	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P114-ROX-012814	1/28/2014		32.11	NE	<0.00011	<0.00011	<0.011	0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00066 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P114-ROX-042114	4/21/2014		32.22	NE	0.00011	<0.0001	<0.01	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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P114-ROX-071814	7/18/2014		30.87	NE	0.000082 J	<0.0001	<0.01	<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	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P114-ROX-101714	10/17/2014		29.43	NE	0.000078 J	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P114-ROX-012115	1/21/2015	32.67 - 52.67	31.53	NE	0.00019	<0.00011	<0.011	0.000096 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
ROST-3-MW (ROST-3-PZ)	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	0.000023 J	<0.0001	<0.01	<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	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.00011	<0.00011	<0.011 UJ	<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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	0.0033 J	<0.011
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.00011	<0.00011	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ
	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	0.00025	0.000059 J	<0.01 UJ	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	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005 UJ	<0.01
	ROST3MW-ROX-040513	4/5/2013		42.24	NE	0.00016	<0.00011 UJ	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	0.00029	<0.00011	<0.011	0.000091 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00061 J	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	0.00025 J	<0.011 UJ	<0.0054	0.0016 J J
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	0.0001 J	<0.00011	<0.011	<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 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.00011	<0.00011	<0.011	<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 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00046 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	ROST3MW-ROX-011515	1/15/2015	37.81 - 47.81	41.83	NE	0.000027 J	<0.00011	<0.011	0.000019 J J	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	0.00027	0.000072 J	<0.01	0.00011	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.00027 J	<0.01	<0.005	<0.01
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	0.00039 B	<0.00011	<0.011	<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	<0.0053	<0.00011	<0.00011	0.00036 J	<0.011	0.0012 J	0.003 J
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	0.000054 J	<0.0001	<0.01 UJ	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	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.00011	<0.00011	<0.011 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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	0.000066 J	0.000018 J	<0.011	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	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	0.00019	0.000073 J	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0032	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	0.00012	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.01 UJ	<0.012	<0.0059	<0.0024	<0.0059	<0.01 UJ	<0.005 UJ	<0.00012	<0.00012	<0.0024	<0.01 UJ	<0.0059	<0.01 UJ
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0053	0.0007 J	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.011	<0.0053	<0.011
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	ROST4PZC-ROX-011515	1/15/2015	34.95 - 44.95	41.65	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	0.0042	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	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)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
T-12	T12-ROX-050912	5/9/2012	46.72 - 72.72	42.62	NE	0.00032	<0.0001	<0.01	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	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	T12-ROX-080212	8/2/2012		41.92	NE	0.00044	0.000082 J	<0.011 UJ	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	<0.0054	<0.00011	<0.00011	0.0003 J	<0.011	<0.0054	0.0153
	T12-ROX-110512	11/5/2012		43.91	NE	0.00044	<0.0001	<0.01	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	<0.005	<0.0001	<0.0001	0.00029 J	<0.01	<0.005	0.0028 J J
	T12-ROX-011813	1/18/2013		44.50	NE	0.0005	0.000093 J	<0.011 UJ	<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	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0065 J
	T12-ROX-041513	4/15/2013		44.99	NE	0.00063	0.00009 J	<0.01	<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	<0.0051	<0.0001	<0.0001	0.00048 J	<0.01	<0.0051	<0.01
	T12-ROX-071613	7/16/2013		42.33	NE	0.00055	0.0001 J	<0.011	0.00015	0.00013	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	0.001 J	<0.0054 UJ	<0.0044 U	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00042 J	<0.011	<0.0054	0.0096 J
	T12-ROX-101513	10/15/2013		43.73	NE	0.00036	<0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.000028 J	<0.00011	0.00029 J	<0.011	<0.0054	0.0047 J
	T12-ROX-012414	1/24/2014		45.26	NE	0.0005	<0.0001	<0.01	0.00014	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0073 J
	T12-ROX-041514	4/15/2014		46.72	NE	0.00037	<0.00011	<0.011	0.00012	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00031 J	<0.011	<0.0056	<0.011 UJ
	T12-ROX-070814	7/8/2014		45.13	NE	0.00024	<0.00011	<0.011 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	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	T12-ROX-101714	10/17/2014		44.40	NE	0.00036	0.000072 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	0.00039	0.000064 J	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0069 J

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						SVOCs																			
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				Screening Values (mg/L)			0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-01	MW1-ROX-050112	5/1/2012	48.80 - 58.80	39.09	NE	<0.0051	<0.00054 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.0053	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW1-ROX-121712	12/17/2012		41.22	NE																					
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000021 U	<0.0052	<0.0001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.0053 UJ	<0.0012 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.0051	<0.0051	<0.0051	<0.01	0.000033 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000043 U	<0.0051	<0.0001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000031 J	<0.0053 UJ	<0.00011
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.0054	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000023 U	<0.0057 UJ	<0.00011
	MW1-ROX-070914	7/9/2014		42.09	NE	<0.0054	0.0016 JB	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000085 J	0.00012 JB J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW1-ROX-100614	10/6/2014		41.1	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW1-ROX-011215	1/12/2015	48.80 - 58.80	42.73	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000017 J	0.000027 J	<0.0053		<0.00011	<0.0053	<0.00003 U	<0.000036 U	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00003 J	<0.0053	<0.00011
MW-02	MW2-ROX-050112	5/1/2012	49.87 - 59.87	40.25	NE	<0.0052	<0.0005 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0105	0.021	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.0053	<0.00047 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0097	0.0229	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00004 J	<0.0053	0.000039 J
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000061 J	0.00011	<0.0054		<0.00011	<0.0054	0.0091	0.0182	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	<0.0054	0.000046 J
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	0.00004 J	<0.00011	<0.0056		<0.00011	<0.0056	0.008	0.0162	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000044 J	<0.0056	0.000039 J
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.012	0.0256	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0123 J	0.0249	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000051 U	<0.0055 UJ	<0.00011
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.009	0.0201	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0094	0.0208	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000043 U	<0.0053	<0.00011
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.006	<0.00046 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.0083	0.0193	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.0054	<0.00045 U	<0.0054	<0.011	0.00012	0.00014	<0.0054		<0.00011	<0.0054	0.01	0.0215	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00017 U	<0.0054	0.000096 J
	MW2-ROX-101014	10/10/2014		42.49	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.01	0.0214	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW2-ROX-011615	1/16/2015	49.87 - 59.87	44.1	NE	<0.0053	<0.00034 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0108	0.0236	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011
MW-03	MW3-ROX-043012	4/30/2012	34.67 - 44.67	26.19	NE	<0.0052	<0.00047 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.0053	<0.00066 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0025 J	<0.005	<0.01	0.000047 J	0.000052 J	<0.005		<0.0001	<0.005	<0.0002	0.000081 J	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000068	<0.005 UJ	0.000036 J
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00044 J	0.00038	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000039 U	<0.0054 UJ	<0.000072 U
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00013 J	0.00014 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.0053 UJ	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.0056	<0.00056 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000019 U	<0.0056	<0.00011
	MW3-ROX-071114	7/10/2014		29.05	NE	<0.0054	<0.00028 U	<0.0054	<0.011	<0.0001	<0.0001	<0.0054		<0.0001	<0.0054	0.000067 J	<0.0002	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00003 U	<0.0054	<0.0001
	MW3-ROX-100914	10/9/2014		28.18	NE	<0.0056	<0.00023 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW3-ROX-011515	1/15/2015	34.67 - 44.67	29.65	NE	<0.0056	0.00028 J J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00033 J	0.0003 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000018 J J	<0.0056	<0.00011
MW-04	MW4-ROX-050312	5/3/2012	46.06 - 56.06	37.45	NE	<0.005	<0.00062 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00032	0.00025	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.0051	<0.00061 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.0051	0.00075 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00054	0.00045 B	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0018 J	<0.0001
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.0051	0.00057 J	<0.0051	<0.01	<0.000047 U	<0.0001	<0.0051		<0.0001	<0.0051	0.00049	0.0004 B	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000031 U	0.0023 J	<0.0001
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00025	0.00016 J	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.00014 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.0608	<0.00011
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.006 UJ	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	0.000099 J	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	0.0665	<0.00012
	MW4-ROX-030413	3/4/2013		40.20	NE																					
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00022	0.000082 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000054	0.11	<0.00011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.0053 UJ	<0.00062 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000076 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.103	<0.00011
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000052 J	<0.0055	0.00037	0.00023	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.00003 U	0.0661	<0.00011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00016 J	0.00015 J	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000054	0.0168 J	<0.00011
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.0054	<0.0013 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00027	0.00022	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000022 U	0.0164 J	<0.00011
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.0056	<0.00076 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000072 J	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW4-ROX-071614	7/16/2014		40.18	NE	<0.0052	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00024	0.00022	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000041 U	<0.0052	<0.0001
	MW4-ROX-101614	10/16/2014		39.49	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.0024	<0.0024	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.000029 J	0.0115	<0.00012
	MW4-ROX-012115	1/21/2015	46.06 - 56.06	41.27	NE	<0.0053	0.0011 J	<0.0053	<0.011	<0.000018 U	<0.00011	<0.0053		<0.00011	<0.0053	0.00012 JB	<0.00011 U	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000019 U	<0.0053	<0.000022 U

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				Screening Values (mg/L)			0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-05	MW5-ROX-050312	5/3/2012	33.97 - 43.97	25.89	NE	<0.0051	<0.0005 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	0.00072 J	0.0117	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.0052	0.00057 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.003	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000025 U	0.0015 J	<0.0001
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.0091	0.000084 J	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0043	0.000084 J	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000048 J	<0.0055	<0.00011
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.004	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.00099 U	<0.005		<0.0001	<0.005	0.0015	<0.0002 UJ	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000074 U	<0.005	<0.0001
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0038	0.00009 J	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0035	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.0056	<0.00087 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.0038	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW5-ROX-071414	7/14/2014		28.59	NE	<0.0053	<0.00037 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00052 B	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000088 U	<0.0053	<0.00011
	MW-5-ROX-100914	10/9/2014		27.75	NE	<0.0054	<0.00023 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00099 J	<0.0022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00003 U	0.00072 J	<0.00011
	MW5-ROX-011515	1/15/2015	33.97 - 43.97	29.34	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000037 J J	<0.00011	<0.0053		0.000023 J J	<0.0053	0.00071 J	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000039 J J	<0.0053	0.000038 J J
MW-06A	MW6A-ROX-050212	5/2/2012	34.83 - 44.83	27.77	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.00049 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0051 UJ	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000072 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.0053	0.0018 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.000084	<0.0053 UJ	0.000053 J
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.0056	<0.00075 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000054	<0.0056	<0.00011
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.0054	<0.00077 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000055	<0.0054	<0.00011
	MW6A-ROX-071014	7/10/2014		30.75	NE	<0.0054	<0.00026 U	<0.0054	<0.011	<0.00011	0.00013	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000046 J	<0.0054	<0.00011
	MW6A-ROX-100814	10/8/2014		29.84	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW6A-ROX-011415	1/14/2015	34.83 - 44.83	31.54	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000037 J J	0.000076 J	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000046 J	<0.0053	0.000027 J
MW-06B	MW6B-ROX-050212	5/2/2012	64.05 - 69.05	27.82	NE	<0.005	0.00039 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0051	0.0007 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.0051	0.00079 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	0.0026 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.0054	0.0012 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.0002 J	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.0054 UJ	<0.0054	<0.0054	0.0224	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		0.000043 J	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.0053	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000018 J	<0.0053	<0.00011
	MW6B-ROX-071014	7/10/2014		30.81	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6B-ROX-100814	10/8/2014		29.87	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW6B-ROX-011415	1/14/2015	64.05 - 69.05	31.59	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	0.000017 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-06C	MW6C-ROX-050212	5/2/2012	84.95 - 89.95	27.62	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.005	0.001 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005	0.0022 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0052	0.00077 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00016 J	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.0055 UJ	0.00043 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.0059	<0.0004 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012
	MW6C-ROX-071014	7/10/2014		30.60	NE	<0.0056	<0.00032 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		0.000035 J	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6C-ROX-100814	10/8/2014		29.67	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6C-ROX-011415	1/14/2015	84.95 - 89.95	31.41	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000022 J J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	0.000028 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000025 J	<0.0056	0.000021 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06D	MW6D-ROX-050212	5/2/2012	104.72 - 109.72	27.45	NE	<0.005	0.00047 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.0005 U	<0.00021	<0.00021	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000052	<0.005	<0.0001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.0053	0.00069 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.0055	<0.00039 U	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.0056	<0.00027 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.0054	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6D-ROX-100814	10/8/2014		29.53	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6D-ROX-100814-DUP	10/8/2014		29.53	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6D-ROX-011415	1/14/2015	104.72 - 109.72	31.26	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000031 J J	0.000018 J	<0.0054		<0.00011	<0.0054	0.000015 J	0.000033 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000033 J	<0.0054	0.000027 J
	MW6D-ROX-011415-DUP	1/14/2015		31.26	NE	<0.0056	0.00027 J J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
MW-07	MW7-ROX-050412	5/4/2012	42.92 - 52.92	39.19	NE	<0.005	<0.00095 U	<0.005	<0.01	0.000039 J	0.00019	<0.005		<0.0001	<0.005	0.0075	0.0087	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00028	0.0944	<0.0001
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00016	<0.0051		<0.0001	<0.0051	0.0055	0.0065	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00019	0.0576	<0.0001
	MW7-ROX-103012	10/30/2012		41.23	NE	<0.0058	<0.0058	<0.0058	<0.012	<0.00012	0.00023	<0.0058		<0.00012	<0.0058	0.0061 J	0.0077	<0.012	<0.012	<0.0058	<0.0058 UJ	<0.0058	<0.012	0.00036	0.0615 J	<0.00005 U
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.008 J	0.0098	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00037	0.0812 J	<0.00005 U
	MW7-ROX-011513	1/15/2013		42.21	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	0.00004 J	0.00061	<0.0053		<0.00011	<0.0053	0.0187	0.0224	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00086	0.0865 J	0.000089 J
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00057	<0.0052		<0.0001	<0.0052	0.0173	0.0207	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00078	0.0735 J	0.000078 J
	MW7-ROX-041013	4/10/2013		42.70	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000039 J	0.00081	<0.0054		<0.00011	<0.0054	0.0271	0.0351	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.147	0.00015
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000068 J	0.00087	<0.0053		<0.00011	<0.0053	0.0274	0.0357	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0015	0.148	0.00016
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		0.000078 J	<0.0054	0.0043	0.006	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.118	0.000039 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00022	<0.0055		<0.00011	<0.0055	0.0082	0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00019	0.0849	<0.00011
	MW7-ROX-013014	1/30/2014		42.94	NE	<0.005	<0.0007 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.0059	0.0083	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00029	0.0314	<0.0001
	MW7-ROX-041614	4/16/2014		43.79	NE	<0.0052	<0.00071 U	<0.0052	<0.01	<0.0001	0.00026	<0.0052		<0.0001	<0.0052	0.0074	0.0103	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00033 B	0.0988	<0.0001
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.0052	<0.00027 U	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0052	0.0079	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028	0.0618	<0.0001
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.0052	<0.00038 U	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0052	0.0077	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00026	0.0638	<0.0001
	MW7-ROX-101614	10/16/2014		41.31	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.0002	<0.0056		<0.00011	<0.0056	0.0049	0.0074	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00028	0.155	<0.00011
	MW7-ROX-101614-DUP	10/16/2014		41.31	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	0.00019	<0.0057		<0.00011	<0.0057	0.0047	0.007	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00027	0.133	<0.00011
	MW7-ROX-012215	1/22/2015	42.92 - 52.92	43.45	NE	<0.0053	0.00035 J	<0.0053	<0.011	<0.000063 U	0.00024	<0.0053		0.00003 J	<0.0053	0.0053	0.0068	<0.011	0.00059 J	<0.0053	<0.0053	<0.0053	<0.011	0.00049	0.145	<0.000099 U
	MW7-ROX-012215-DUP	1/22/2015		43.45	NE	<0.0052	0.00027 J	<0.0052	<0.01	<0.000021 U	0.00022	<0.0052		<0.0001	<0.0052	0.0052	0.0066	<0.01	0.00056 J	<0.0052	<0.0052	<0.0052	<0.01	0.00045	0.136	<0.000058 U
MW-08	MW8-ROX-050412	5/4/2012	33.60 - 43.60	30.21	NE	<0.0053	<0.00063 U	<0.0053	<0.011	<0.00011	0.00024	<0.0053		<0.00011	<0.0053	0.0085	0.0099	0.0302	0.0657	<0.0053	<0.0053	<0.0053	<0.011	0.00014	0.258 J	<0.00011
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0086	0.0102	0.0275	0.0569	<0.005	<0.005	<0.005	<0.01	0.00014	0.12 J	<0.0001
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0091	0.0109	0.0075 J	0.0231	<0.0054	<0.0054	<0.0054	<0.011	0.00015	0.136	<0.00011
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.0092	0.0111	0.0081 J	0.024	<0.0056	<0.0056	<0.0056	<0.011	0.00014	0.134	<0.00011
	MW8-ROX-103012	10/30/2012		32.32	NE	<0.0053	0.00082 J	0.00063 J	<0.011	0.00059 B	0.00053	<0.0053		0.00059 B	<0.0053	0.0097	0.0112	0.0058 J	0.0158	<0.0053	<0.0053 UJ	0.00052 J	0.003 J	0.00057	0.165 J	0.00054 B
	MW8-ROX-011513	1/15/2013		33.30	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	0.00041	<0.0056		<0.00011	<0.0056	0.011	0.0129	0.0332	0.102	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00016	0.0997 J	<0.00011
	MW8-ROX-041013	4/10/2013		33.77	NE	<0.0053	0.0013 J	<0.0053	<0.011	0.000056 J	0.00032	<0.0053		<0.00011	<0.0053	0.0091	0.0113	0.0388	0.084	<0.0053	<0.0053	<0.0053	<0.011	0.00019	0.253 J	0.000042 J
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0097 J	0.0113	0.0046 J	0.0106	<0.0052	<0.0052	<0.0052	<0.01	0.00015	0.328	0.000062 J
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00036	<0.0054		<0.00011	<0.0054	0.0087 J	0.0098	0.0037 J	0.0091 J	<0.0054	<0.0054	<0.0054	<0.011	0.00016	0.303	<0.00011
	MW8-ROX-101613	10/16/2013		31.59	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0117	0.0136	0.0022 J	0.0052 J	<0.0054	<0.0054	<0.0054	<0.011	0.00011	0.0996	<0.00011
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	0.00037	<0.0059		<0.00012	<0.0059	0.0108	0.0128	0.0019 J	0.0046 J	<0.0059	<0.0059	<0.0059	<0.012	0.000097	0.108	<0.00012
	MW8-ROX-013014	1/30/2014		34.02	NE	<0.0051	<0.0011 U	<0.0051	<0.01	<0.0001	0.00054	<0.0051		<0.0001	<0.0051	0.0137	0.0123	0.0128	0.0198	<0.0051	<0.0051	<0.0051	<0.01	0.00018	0.105	<0.0001
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<0.0054	<0.00092 U	<0.0054	<0.011	<0.00011	0.00052	<0.0054		<0.00011	<0.0054	0.0136	0.0123	0.0129	0.019	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.135	<0.00011
	MW8-ROX-041614	4/16/2014		34.73	NE	<0.0056	<0.00073 U	<0.0056	<0.011	<0.00011	0.00046	<0.0056		<0.00011	<0.0056	0.0142	0.0097	<0.011	0.0062 J	<0.0056	<0.0056	<0.0056	<0.011	0.00015 B J	0.135	<0.00011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<0.0051	<0.0006 U	<0.0051	<0.01	<0.0001	0.00043	<0.0051		<0.0001	<0.0051	0.0129	0.0086	<0.01	0.0053 J	<0.0051	<0.0051	<0.0051	<0.01	0.00016 B J	0.118	<0.0001
	MW8-ROX-071614	7/16/2014		33.01	NE	<0.0052	<0.00045 U	<0.0052	<0.01	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0125	0.0048	0.0037 J	0.0045 J	<0.0052	<0.0052	<0.0052	<0.01	0.0002 B	0.111	<0.0001
	MW8-ROX-101614	10/16/2014		32.23	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00054	<0.0056		<0.00011	<0.0056	0.0145	0.0045	0.019	0.0558	<0.0056	<0.0056	<0.0056	<0.011	0.00023	0.126	<0.00011
	MW8-ROX-012215	1/22/2015	33.60 - 43.60	34.22	NE	<0.0052	0.00027 J	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.011	0.0046	0.0102	0.0242	<0.0052	<0.0052	<0.0052	<0.01	0.00016 B	0.146	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				Screening Values (mg/L)			0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-09	MW9-ROX-050312	5/3/2012	46.45 - 56.45	41.03	NE																					
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005	<0.00054 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	0.000066 J	0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.00014 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00012	<0.0054	0.000057 J
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0052 UJ	<0.0018 UJ	<0.0052 UJ	<0.01 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	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022			<0.0056	<0.0056	<0.0056		<0.000028 U		<0.00011
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.0056	<0.00062 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.0001 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056 U	<0.0056	<0.00011
	MW9-ROX-070914	7/9/2014		44.35	NE	<0.0054	<0.0006 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW9-ROX-100714	10/7/2014		43.52	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.0024	<0.0024	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012
	MW9-ROX-011315	1/13/2015	46.45 - 56.45	44.21	NE	<0.0052	0.00023 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000016 JB	<0.0052	<0.0001
MW-10	MW10-ROX-050112	5/1/2012	44.43 - 54.43	40.86	NE	<0.0052	<0.00041 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.000033 J	<0.0052 UJ	<0.0001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005	<0.00043 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000052 J	0.000086 J	<0.0056		<0.00011	<0.0056	<0.00022	0.00009 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000076	<0.0056	0.00004 J
	MW10-ROX-121712	12/17/2012		43.08	NE																					
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000021 U	<0.005	<0.0001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.01	<0.01	<0.01	<0.001	<0.0001	<0.0001	<0.002		<0.0001	<0.01		<0.01	<0.01	<0.01	<0.004	<0.02	<0.003	<0.004	<0.0001	<0.005	<0.0001
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.0054 UJ	<0.0019 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		0.000072 J	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000037 JB	<0.0054 UJ	<0.00011
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.0053	<0.00085 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000042 U	<0.0053	<0.00011
	MW10-ROX-070914	7/9/2014		44.35	NE	<0.0054	<0.00065 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW10-ROX-100714	10/7/2014		43.58	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.0023	<0.0023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW10-ROX-011315	1/13/2015	44.43 - 54.43	44.27	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.000018 U	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
MW-11	MW11-ROX-043012	4/30/2012	41.66 - 51.66	38.66	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.0058	<0.00057 U	<0.0058	<0.012	<0.00012	<0.00012	<0.0058		<0.00012	<0.0058	<0.00023	<0.00023	<0.012	<0.012 UJ	<0.0058	<0.0058	<0.0058	<0.012	<0.000058	<0.0058	<0.00012
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 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	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.000015 UJ	<0.005 UJ	<0.0001 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000026 U	<0.0055	<0.00011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.0056	<0.0007 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000023 U	<0.0056	<0.00011
	MW11-ROX-070914	7/9/2014		41.75	NE	<0.0057	<0.00042 U	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00003 J	<0.0057	<0.00011
	MW11-ROX-100714	10/7/2014		40.89	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.0021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW11-ROX-011315	1/13/2015	41.66 - 51.66	41.93	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.00002 U	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-12	MW12-ROX-043012	4/30/2012	41.92 - 51.92	38.98	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.0053	<0.00063 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0051 UJ	<0.0051	<0.0051	<0.01	0.000045 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000032 U	<0.0051	<0.0001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000044 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.0055	<0.0055	<0.0055	0.0018 J J	<0.000055	<0.0053 UJ	<0.00011
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01 UJ	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01 UJ	<0.000022 U	<0.0052 UJ	<0.0001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.0051	<0.0006 U	<0.0051	<0.01	<0.00011	<0.00011	<0.0051		<0.00011	<0.0051	<0.00023	<0.00023	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000021 J	<0.0051	<0.00011
	MW12-ROX-070914	7/9/2014		41.97	NE	<0.0056	<0.00098 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW12-ROX-100614	10/6/2014		40.98	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW12-ROX-011215	1/12/2015	41.92 - 51.92	42.33	NE	<0.0056	0.00023 J	<0.0056	<0.011	0.00002 J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000018 J	<0.0056	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				Screening Values (mg/L)			0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-13	MW13-ROX-050712	5/7/2012	25.57 - 35.57	25.79	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00021	<0.00014 UJ	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.00054 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.0055 UJ	0.0027 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	0.00011 J	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	0.00011 J	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.000042	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.000067 U	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000076	<0.0054 UJ	<0.00004
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.000096 U	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.006	<0.00079 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.000033 J	<0.006	<0.00012
	MW13-ROX-070714	7/7/2014		28.49	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-101014	10/10/2014		27.48	NE	<0.006	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.0024	<0.0024	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.000032 J	<0.006	<0.00012
	MW13-ROX-011615	1/16/2015		29.09	NE	<0.0053	<0.00034 U	<0.0053	<0.011	0.000022 J	0.000035 J	<0.0053		<0.00011	<0.0053	0.00004 J	0.00008 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	0.000046 J
MW-14	MW14-ROX-051012	5/10/2012	33.42 - 43.42	NM	NE	<0.0052	0.00043 J	<0.0052	<0.01	<0.0001	0.00022	<0.0052		<0.0001	<0.0052	0.0101	0.0015	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW14-ROX-080312	8/3/2012		NM	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00071	<0.0053		<0.00011	<0.0053	0.019	0.0038	<0.011	<0.011	0.00032 J	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005	0.00044 J	<0.005	<0.01	<0.0001	0.00029	<0.005		<0.0001	<0.005	0.0192	0.004	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.000051	<0.005 UJ	<0.0001
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	0.00064	<0.005		<0.0001	<0.005	0.0215	0.0084	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000068 J	0.00016	<0.0054		<0.00011	<0.0054	0.0124	0.0018	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0001	<0.0054	0.000053 J
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.0053 UJ	0.00043 J	<0.0053	<0.011	<0.00011	<0.000093 U	<0.0053		<0.00011	<0.0053	0.0127	0.0027	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000032 U	<0.0053 UJ	<0.000067 U
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	0.00034	<0.0057		<0.00011	<0.0057	0.0184	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.0054	0.00045 J	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0075	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.006	<0.00082 U	<0.006	<0.012	<0.00011	0.0003	<0.006		<0.00011	<0.006	0.0018	<0.00023	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.000057	<0.006	<0.00011
	MW14-ROX-070714	7/7/2014		32.82	NE	<0.0054	0.00031 J	<0.0054	<0.011	<0.00011	0.00024	<0.0054		<0.00011	<0.0054	0.0014	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024 J	<0.0054	<0.00011
	MW14-ROX-101414	10/14/2014		31.65	NE	<0.0056	<0.00056 U	<0.0056	<0.011	<0.00011	0.00024	<0.0056		<0.00011	<0.0056	0.0014 J	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011
	MW14-ROX-011615	1/16/2015	33.42 - 43.42	33.58	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00013	<0.0053		<0.00011	<0.0053	0.00012 J	0.000026 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000021 J	<0.0053	<0.00011
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000085 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.000058 J	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000018 U	<0.0056	<0.00011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 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	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000031 U	<0.0052	<0.0001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.0059	<0.00067 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012
	MW16-ROX-071014	7/10/2014		43.15	NE	<0.0054	<0.00021 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW16-ROX-100714	10/7/2014		42.27	NE	<0.006	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.0024	<0.0024	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012
	MW16-ROX-011315	1/13/2015	37.06 - 47.06	43.59	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.000016 U	<0.000022 U	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.0052 UJ	0.0024 J	<0.0052	<0.01	<0.0001	0.00018	<0.0052		<0.0001	<0.0052	0.0276	0.05	0.018	0.0322	<0.0052	<0.0052	<0.0052	<0.01	0.00019	0.0111	<0.0001
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.0053 UJ	0.0024 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.028	0.0501	0.0187	0.0349	<0.0053	<0.0053	<0.0053	<0.011	0.0002	0.0122	<0.00011
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.0053	0.00057 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.0241	0.0413	0.0236	0.0403	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00019	0.0123 J	<0.00011
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0232 J	0.0393	0.0159	0.029	<0.0054	<0.0054	<0.0054	<0.011	0.0002 B	0.0094 J	<0.00011
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.0056	0.00052 J	<0.0056	<0.011	<0.00011	0.00017	<0.0056		<0.00011	<0.0056	0.0216 J	0.037	0.0147	0.0269	<0.0056	<0.0056	<0.0056	<0.011	0.0002 B	0.0088 J	<0.00011
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		<0.00011	<0.0054	0.0276	0.0468	0.0152	0.0319	<0.0054	<0.0054	<0.0054	<0.011	0.00019	<0.0054	<0.00011
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.0002	<0.0054		<0.00011	<0.0054	0.0265	0.0451	0.0139	0.0296	<0.0054	<0.0054	<0.0054	<0.011	0.00016	<0.0054	<0.00011
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.027	<0.027	<0.027	<0.053	<0.00011	0.00017	<0.027		<0.00011	<0.027	0.0258	0.0459	0.0124 J	0.0313 J	<0.027	<0.027	<0.027	<0.053	0.0002 B	0.0071 J	<0.00011
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.027	<0.027	<0.027	<0.054	<0.00011	0.00015	<0.027		<0.00011	<0.027	0.0232	0.0416	0.0118 J	0.0296 J	<0.027	<0.027	<0.027	<0.054	0.0002 B	0.007 J	<0.00011
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.028	<0.0016 U	<0.028	<0.056	<0.00011	<0.00011	<0.028		<0.00011	<0.028	0.0174	0.0287	0.0156 J	0.035 J	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.028	<0.0018 U	<0.028	<0.056	<0.00011	0.00012	<0.028		<0.00011	<0.028	0.0199	0.0322	0.0159 J	0.038 J	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011
	MW22-ROX-071414	7/14/2014		41.85	NE	<0.0054	<0.00057 U	<0.0054	<0.011	<0.00011	0.00015	<0.0054		<0.00011	<0.0054	0.0198	0.0355	0.0102 J	0.0204	<0.0054	<0.0054	<0.0054	<0.011	<0.00018 U	<0.0054	<0.00011
	MW22-ROX-101014	10/10/2014		41.43	NE	<0.0063	<0.0063	<0.0063	<0.013	<0.00013	0.00014	<0.0063		<0.00013	<0.0063	0.0193	0.0339	0.0064 J	0.011 J	<0.0063	<0.0063	<0.0063	<0.013	0.00036	0.0079	<0.00013
	MW22-ROX-011615	1/16/2015	37.88 - 47.88	42.19	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00051	<0.0053		<0.00011	<0.0053	0.0153	0.0184	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000064	0.0119	<0.00011
MW-23	MW23-ROX-012615	1/26/2015	29.02 - 39.02	30.90	NE	<0.005	<0.005	<0.005	<0.005	<0.001	0.00096 J	<0.005 UJ		<0.0002	<0.005	0.0019	0.00056 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.0037	<0.005	<0.001
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0052	0.00049 J	<0.0052	<0.01	0.000088 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	0.000066 J
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022 UJ	0.000062 J	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000038 U	<0.0053 UJ	<0.00011
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.0056	<0.00092 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW24-ROX-071114	7/10/2014		42.97	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-100814	10/8/2014		42.16	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW24-ROX-011315	1/13/2015	38.89 - 48.89	43.17	NE	<0.0053	0.00023 J	<0.0053	<0.011	<0.00011	0.000059 J	<0.0053		<0.00011	<0.0053	0.00009 JB	<0.000099 U	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000037 J	<0.0053	<0.00011
MW-25	MW25-ROX-102114	10/21/2014	35.59 - 45.59	36.44	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00093 J	0.00057 J	0.0011 J	0.0028 J	<0.0056	<0.0056	<0.0056	<0.011	0.000033 J	0.173	<0.00011
	MW25-ROX-012215	1/22/2015	35.59 - 45.59	38.45	NE	<0.0052	0.00028 J	<0.0052	<0.01	<0.000018 U	<0.0001	<0.0052		<0.0001	<0.0052	0.00036 J	0.00015 J	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.107	<0.000019 U

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TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-26	MW26-ROX-102114	10/21/2014	38.15 - 48.15	39.43	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW26-ROX-011215	1/12/2015	38.15 - 48.15	41.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0021	<0.000017 U	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000015 J	<0.0052	<0.0001
MW-27	MW27-ROX-102114	10/21/2014	39.79 - 49.79	41.57	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW27-ROX-011515	1/15/2015	39.79 - 49.79	42.06	NE	<0.0053	0.00026 J J	<0.0053 UJ	<0.011	<0.00011	0.000023 J J	<0.0053		0.000047 J J	<0.0053	<0.0021	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000028 J J	<0.0053	0.000019 J J
MW-28	MW28-ROX-102114	10/21/2014	33.61 - 43.61	36.44	NE	<0.0053	0.00026 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00075 J	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000017 J	<0.0053	<0.00011
	MW28-ROX-011515	1/15/2015	33.61 - 43.61	41.14	NE	<0.0055	0.00033 J J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.00047 J	<0.0022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
P-54	P54-ROX-050412	5/4/2012	38.00 - 63.00	38.77	NE	<0.0051	<0.00085 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0026 J	<0.0001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000032 J	<0.0053	<0.00011
	P54-ROX-041013	4/10/2013		41.80	NE	<0.0057 UJ	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	P54-ROX-071113	7/11/2013		39.07	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021 UJ	0.000083 J	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000049 U	<0.0052 UJ	<0.0001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-011514	1/15/2014		42.20	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.006	<0.00062 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012
	P54-ROX-071114	7/10/2014		41.71	NE	<0.0054	<0.00028 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00011 J	0.00013 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000051 U	<0.0054	<0.00011
	P54-ROX-100814	10/8/2014		40.88	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	P54-ROX-011415	1/14/2015	38.00 - 63.00	41.79	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000021 J J	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00002 J	<0.0056	0.00003 J
P-55	P55-ROX-050912	5/9/2012	39.82 - 64.82	42.44	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00069	<0.0051		<0.0001	<0.0051	0.0118	0.0179	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00066	<0.0051	<0.0001
	P55-ROX-012113	1/21/2013	40.43 - 50.43	43.60	NE	<0.01	<0.01	<0.01	<0.001	<0.0001	0.00133	<0.002		<0.0001	<0.01		0.042	<0.01	<0.01	<0.004	<0.02	<0.003	<0.004	0.00211	0.004 J	<0.0001
	P55-ROX-012113	1/21/2013		43.60	NE	<0.0051	0.00069 J	<0.0051	<0.01	<0.0001	0.00093	<0.0051		<0.0001	<0.0051	0.0176	0.0254	<0.01	0.0018 J	<0.0051	<0.0051	<0.0051	<0.01	0.0017	0.0034 J	<0.0001
	P55-ROX-041513	4/15/2013		43.63	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.0013	<0.0052		<0.0001	<0.0052	0.0268	0.0389	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0021	<0.0052	<0.0001
	P55-ROX-071613	7/16/2013		40.06	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.0015	<0.0056		<0.00011	<0.0056	0.0244	0.0353	<0.011 UJ	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0019	0.0048 J J	<0.00011
	P55-ROX-101013	10/10/2013		41.67	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.0014	<0.0055		<0.00011	<0.0055	0.0279	0.0415	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0017	0.002 J	<0.00011
P-56	P56-ROX-050812	5/8/2012	40.82 - 65.82	43.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0186	0.0236	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
	P56-ROX-080612	8/6/2012		43.60	NE	<0.0051	<0.00075 U	<0.0051	<0.01	<0.0001	0.0003	<0.0051		<0.0001	<0.0051	0.0143	0.0178	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0013	<0.0051	<0.0001
	P56-ROX-103112	10/31/2012		44.80	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.024	0.0307	<0.01	0.0011 J	<0.0051	<0.0051 UJ	<0.0051	<0.01	0.0013	<0.0051 UJ	<0.0001
	P56-ROX-011713	1/17/2013		45.65	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00032	<0.005		<0.0001	<0.005	0.0147	0.0131	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0012	0.0014 J	<0.0001
	P56-ROX-041213	4/12/2013		46.12	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00032	<0.0055		<0.00011	<0.0055	0.0208	0.0239	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0012	<0.0055	<0.00011
	P56-ROX-071513	7/15/2013		43.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00059	<0.0055		<0.00011	<0.0055	0.0315	0.0431	<0.011 UJ	0.0064 J	<0.0055	<0.0055	<0.0055	<0.011	0.0015	<0.0055 UJ	<0.00011
	P56-ROX-101013	10/10/2013		44.48	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00044	<0.0055		<0.00011	<0.0055	0.0251	0.03	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0013	<0.0055	<0.00011
	P56-ROX-012214	1/22/2014		46.35	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00035	<0.0052		<0.0001	<0.0052	0.0193	0.0228	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0012	<0.0052	<0.0001
	P56-ROX-041414	4/14/2014		47.32	NE	<0.0059	0.00051 J	<0.0059	<0.012	<0.00012	0.00038	<0.0059		<0.00012	<0.0059	0.0223	0.0269	<0.012	0.0008 J	<0.0059	<0.0059	<0.0059	<0.012	0.0012	<0.0059	<0.00012
	P56-ROX-070814	7/8/2014		45.97	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00036	<0.0056		<0.00011	<0.0056	0.0181	0.0243	<0.011	0.0165	<0.0056	<0.0056	<0.0056	<0.011	0.001	<0.0056	<0.00011
	P56-ROX-101314	10/13/2014		45.05	NE	<0.0054	<0.00035 U	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0235	0.0296	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0015	<0.0054	<0.00011
	P56-ROX-011915	1/19/2015	40.82 - 65.82	46.58	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.0003	<0.0054		<0.00011	<0.0054	0.0197	0.0223	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	<0.0054	0.00003 J
P-57	P57-ROX-050712	5/7/2012	40.46 - 65.46	42.92	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00045	<0.0052		<0.0001	<0.0052	0.0169	0.0212	<0.01	0.0023 J	<0.0052	<0.0052	<0.0052	<0.01	0.00035	0.141	<0.0001
	P57-ROX-080612	8/6/2012		43.53	NE	<0.005	<0.00087 U	<0.005	<0.01	<0.0001	0.0006	<0.005		<0.0001	<0.005	0.0244	0.0326	<0.01	0.0013 J	<0.005	<0.005	<0.005	<0.01	0.00053	0.0697 J	<0.0001
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005	<0.00089 U	<0.005	<0.01	<0.0001	0.00063	<0.005		<0.0001	<0.005	0.0242	0.0321	<0.01	0.0013 J	<0.005	<0.005	<0.005	<0.01	0.00054	0.0921 J	<0.0001
	P57-ROX-110512	11/5/2012		44.98	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00062	<0.005		0.00005 J	<0.005	0.0249	0.0305	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00048	0.0547 J	<0.0001
	P57-ROX-012913	1/29/2013		45.92	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	0.00094	<0.0059		<0.00012	<0.0059	0.0369	0.0447	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.00074	<0.0059 UJ	<0.00012
	P57-ROX-041113	4/11/2013		46.29	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00076	<0.0051		<0.0001	<0.0051	0.0348	0.0453	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00074	0.146	<0.0001
	P57-ROX-071613	7/16/2013		43.38	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000038 J	0.0008	<0.0056		<0.00011	<0.0056	0.0267	0.0365	<0.011 UJ	0.0086 J	<0.0056	<0.0056	<0.0056	<0.011	0.00073	0.164 J	<0.000052 U
	P57-ROX-101413	10/14/2013		44.38	NE	<0.0054	0.00049 J	<0.0054	<0.011	<0.00011	0.00067	<0.0054		<0.00011	<0.0054	0.0252	0.0324	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00049	0.202	0.000047 J
	P57-ROX-020314	2/3/2014		46.57	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00062	<0.0053		<0.00011	<0.0053	0.0234	0.0314	<0.011	0.0027 J	<0.0053	<0.0053	<0.0053	<0.011	0.00052	0.168 J	<0.00011
	P57-ROX-041514	4/15/2014		46.70	NE	<0.0056	<0.00058 U	<0.0056	<0.011	<0.00011	0.00061	<0.0056		<0.00011	<0.0056	0.0238	0.032	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00045 J	0.106 J	<0.00011
	P57-ROX-070814	7/8/2014		45.95	NE	<0.0053	0.00026 J	<0.0053	<0.011	<0.00011 UJ	0.00055	<0.0053	0.024 JN	<0.00011	<0.0053	0.022	0.0306	<0.011	0.0303	<0.0053	<0.0053	<0.0053	<0.011	0.00047	0.141	<0.00011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	<0.0054	0.00027 J	<0.0054	<0.011	<0.00011 UJ	0.00054	<0.0054	0.023 JN	<0.00011	<0.0054	0.022	0.03	<0.011	0.0299	<0.0054	<0.0054	<0.0054	<0.011	0.00048	0.136	<0.00011
	P57-ROX-101414-DUP	10/14/2014		45.00	NE	<0.0058	<0.00082 U	<0.0058	<0.012	<0.00012	0.00065	<0.0058		<0.00012	<0.0058	0.0243	0.0338	<0.012	0.0138	<0.0058	<0.0058	<0.0058	<0.012	0.00058	0.271 J	<0.00012
	P57-ROX-101414	10/14/2014		45.00	NE	<0.0056	<0.00086 U	<0.0056	<0.011	<0.00011	0.00068	<0.0056		<0.00011	<0.0056	0.026	0.0345	<0.011	0.0152	<0.0056	<0.0056	<0.0056	<0.011	0.00059	0.274 J	<0.00011
	P57-ROX-012315	1/23/2015	44.19 - 54.19	47.52	NE	<0.0053	0.00039 J	<0.0053	<0.011	<0.00002 U	0.00098	<0.0053		<0.00011	<0.0053	0.0385	0.0507	<0.011	0.0044 J	<0.0053	<0.0053	<0.0053	<0.011	0.00062	0.159	<0.000027 U

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-050712	5/7/2012	40.21 - 65.21	40.90	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.0009 J	<0.0051		<0.0001	<0.0051	0.0351 J	0.0435 J	<0.01	0.0181	<0.0051	<0.0051	<0.0051	<0.01	0.00056 J	0.161	0.0001
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00067 J	<0.0052		<0.0001	<0.0052	0.0267 J	0.0338 J	<0.01	0.0122	<0.0052	<0.0052	<0.0052	<0.01	0.00041 J	0.147	0.000076 J
	P58-ROX-080612	8/6/2012		41.63	NE	<0.005	<0.00053 U	<0.005	<0.01	0.000068 J	0.0014	<0.005		<0.0001	<0.005	0.0524	0.0691	<0.01	0.0146	<0.005	<0.005	<0.005	<0.01	0.001	0.15	<0.0001 UJ
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.005	<0.00063 U	<0.005	<0.01	0.000066 J	0.0015	<0.005		<0.0001	<0.005	0.0596	0.079	<0.01	0.0195	<0.005	<0.005	<0.005	<0.01	0.0011	0.19	0.00021 J
	P58-ROX-110612	11/6/2012		43.09	NE																					
	P58-ROX-121012	12/10/2012		43.09	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	0.0014	<0.0054		<0.00011	<0.0054	0.0616	0.0807	<0.011	0.0124	<0.0054	<0.0054	<0.0054	<0.011	0.00085	0.178	0.00012
	P58-ROX-012213	1/22/2013		44.21	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.003	<0.0054		0.000072 J	<0.0054	0.068	0.0846	<0.011	0.0198	<0.0054	<0.0054	<0.0054	<0.011	0.0023	0.208	0.00077
	P58-ROX-041113	4/11/2013		44.40	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.0022	<0.0054		<0.00011	<0.0054	0.0692	0.0961	<0.011	0.014	<0.0054	<0.0054	<0.0054	<0.011	0.0021	0.0985	0.00055
	P58-ROX-071613	7/16/2013		41.49	NE	<0.0055	<0.0055	<0.0055	<0.011	0.000071 J	0.0013	<0.0055		<0.00011	<0.0055	0.0544	0.0708	<0.011 UJ	0.0359	<0.0055	<0.0055	<0.0055	<0.011	0.00099	0.247	<0.0002 U
	P58-ROX-101413	10/14/2013		42.19	NE	<0.0054	0.00058 J	<0.0054	<0.011	0.000066 J	0.0014	<0.0054		<0.00011	<0.0054	0.0488	0.0628	<0.011	0.0481	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00095	0.213	0.00021
	P58-ROX-020314	2/3/2014		44.66	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000058 J	0.0011	<0.0052		<0.0001	<0.0052	0.0353	0.0474	<0.01	0.0073 J	<0.0052	<0.0052	<0.0052	<0.01	0.00069	0.123 J	0.00014
	P58-ROX-041514	4/15/2014		45.66	NE	<0.0053 UJ	<0.0013 U	0.00072 J	<0.011 UJ	0.00079	0.0017	0.00088 J		0.00072	<0.0053 UJ	0.0284	0.0381	<0.011 UJ	0.0136 J	<0.0053	0.0021 J J	<0.0053 UJ	<0.011 UJ	0.0013	0.123 J	0.00085
	P58-ROX-071814	7/18/2014		43.80	NE	<0.0055	<0.00032 U	<0.0055	<0.011	0.000062 J	0.0012	<0.0055		0.0005	<0.0055	0.0412	0.0554	<0.011	0.012	<0.0055	<0.0055	<0.0055	<0.011	0.00092	0.173	0.00022
	P58-ROX-101514	10/15/2014		43.14	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000064 J	0.0015	<0.0054		<0.00011	<0.0054	0.0504	0.0674	<0.011	0.0237	<0.0054	<0.0054	<0.0054	<0.011	0.001	0.145	0.00024
	P58-ROX-012315	1/23/2015	40.21 - 65.21	45.32	NE	<0.0053	0.00038 J	<0.0053	<0.011	<0.000028 U	0.0011	<0.0053		<0.00011	<0.0053	0.0428	0.0565	<0.011	0.0025 J	<0.0053	<0.0053	<0.0053	<0.011	0.00064	0.162	0.000097 JB
P-59	P59-ROX-050912	5/9/2012	47.91 - 72.91	44.11	NE	<0.005	<0.005	<0.005	<0.01	0.000062 J	0.00034	<0.005	0.0056 JN	<0.0001	<0.005	0.0117	0.018	<0.01	0.0062 J	<0.005	<0.005	<0.005	<0.01	0.00053	0.0241	0.000092 J
	P59-ROX-080212	8/2/2012		44.07	NE	<0.0053	<0.0053	<0.0053	<0.011	0.00015	0.00048	<0.0053		<0.00011	<0.0053	0.0136	0.0207	0.0018 J	0.0032 J	<0.0053	<0.0053	<0.0053	<0.011	0.001	0.0419	0.00021
	P59-ROX-110212	11/2/2012		45.98	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000063 J	0.0005	<0.0053		<0.00011	<0.0053	0.0187	0.0282	0.0065 J	0.0137	<0.0053	<0.0053	<0.0053	<0.011	0.00075	0.0766 J	0.00009 J
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000066 J	0.00048	<0.0052		<0.0001	<0.0052	0.0179	0.0268	0.0056 J	0.0116	<0.0052	<0.0052	<0.0052	<0.01	0.00073	0.0656 J	0.000093 J
	P59-ROX-013013	1/30/2013		46.60	NE	<0.0052 UJ	0.0022 J	<0.0052	<0.01	<0.000079 U	0.00069	<0.0052		<0.0001	<0.0052	0.0222	0.0305	0.154	0.107	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.001	0.141 J	<0.00011 U
	P59-ROX-041213	4/12/2013		46.95	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000077 J	0.00064	<0.0054		<0.00011	<0.0054	0.0247	0.0369	0.174	0.0842	<0.0054	<0.0054	<0.0054	<0.011	0.0012	0.119	0.000098 J
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000078 J	0.00065	<0.0053		<0.00011	<0.0053	0.0265	0.0383	0.154	0.0794	<0.0053	<0.0053	<0.0053	<0.011	0.0012	0.101	0.0001 J
	P59-ROX-071613	7/16/2013		44.13	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000061 J	0.00063	<0.0054		<0.00011	<0.0054	0.0189	0.0302	0.17	0.042	<0.0054	<0.0054	<0.0054	<0.011	0.00087	0.121 J	<0.000078 U
	P59-ROX-101013	10/10/2013		45.50	NE	<0.0054	<0.0054	0.00091 J	<0.011	0.00015	0.0007	<0.0054		<0.00011	<0.0054	0.0192	0.0305	0.201	0.0528	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.0524	0.00028
	P59-ROX-020314	2/3/2014		47.35	NE	<0.0052	<0.0052	<0.0052	<0.01	0.00012	0.00067	<0.0052		<0.0001	<0.0052	0.0141	0.0214	0.31 J	0.0142	<0.0052	<0.0052	<0.0052	<0.01	0.0014	0.0444 J	0.00019
	P59-ROX-041514	4/15/2014		48.60	NE	<0.0053	<0.0053	<0.0053	<0.011	0.00015	0.00066	<0.0053		<0.00011	<0.0053	0.0233	0.0317	<0.011	0.0186 J	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.0016	0.13 J	0.0003
	P59-ROX-070814	7/8/2014		47.69	NE	<0.0057	0.00045 J	<0.0057	<0.011	0.000053 J J	0.00046	<0.0057		<0.00011	<0.0057	0.0181	0.0291	0.0793	0.0184	<0.0057	<0.0057	<0.0057	<0.011	0.00088	<0.0057	0.0001 J
	P59-ROX-101414	10/14/2014		46.18	NE	<0.0054	<0.00042 U	<0.0054	<0.011	<0.00054	0.00087	<0.0054		<0.00054	<0.0054	0.0268	0.0425	0.0387	0.0092 J	<0.0054	<0.0054	<0.0054	<0.011	0.0015	0.0361	<0.00054
	P59-ROX-011915	1/19/2015	47.91 - 72.91	47.42	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00014	0.00073	<0.0054		<0.00011	<0.0054	0.0145	0.0216	0.0789	0.0145	<0.0054	<0.0054	<0.0054	<0.011	0.0013	0.0169	0.00027
P-66	P66-ROX-051012	5/10/2012	34.72 - 59.72	32.48	NE	<0.005	0.00054 J	<0.005	<0.01	0.000056 J	0.0015	<0.005		<0.0001	<0.005	0.0647	0.025	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00057	<0.005	0.000082 J
	P66-ROX-080312	8/3/2012		30.51	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000082 J	0.0011	<0.0053		<0.00011	<0.0053	0.0541	0.028	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00057	<0.0053	0.00013
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	<0.005	<0.005	<0.01	<0.000051 U	0.0017	<0.005		<0.0001	<0.005	0.0689	0.0268	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	0.00054	<0.005 UJ	<0.00007 U
	P66-ROX-011813	1/18/2013		35.70	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	0.000076 J	0.0019	<0.0053		<0.00011	<0.0053	0.0655	0.0315	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0019 J	0.00011
	P66-ROX-041113	4/11/2013		36.03	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000072 J	0.0017	<0.0053		<0.00011	<0.0053	0.0681	0.0131	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00091	<0.0053	0.000087 J
	P66-ROX-071213	7/12/2013		33.20	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00019 U	0.0018	<0.0056		0.00017	<0.0056	0.0688	0.0642	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00088	0.0035 J J	<0.0002 U
	P66-ROX-101013	10/10/2013		33.66	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000052 J	0.0013	<0.0056		<0.00011	<0.0056	0.0571	0.0218	<0.011	0.0034 J	<0.0056	<0.0056	<0.0056	<0.011	0.0005	<0.0056	0.00009 J
	P66-ROX-110713	11/7/2013		33.66	NE																					
	P66-ROX-012914	1/29/2014		36.39	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000065 J	0.0016	<0.0053		0.000041 J	<0.0053	0.0701	0.0284	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00077	<0.0053	0.000099 J
	P66-ROX-041114	4/11/2014		37.10	NE	<0.0058	<0.00088 U	<0.0058	<0.012	<0.00012	0.0013	<0.0058		<0.00012	<0.0058	0.0649	0.023	<0.012	<0.012	<0.0058	<0.0058	<0.0058	<0.012	0.00049	<0.0058	0.000049 J
	P66-ROX-070714	7/7/2014		35.60	NE	<0.0056	0.0003 J	<0.0056	<0.011	<0.00011	0.00078	<0.0056		<0.00011	<0.0056	0.0445	0.006	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00041 J	<0.0056	<0.00011
	P66-ROX-101414	10/14/2014		34.48	NE	<0.0055	<0.00066 U	<0.0055	<0.011	<0.00011	0.0011	<0.0055		<0.00011	<0.0055	0.0595	0.0075	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00064	<0.0055	0.000043 J
	P66-ROX-011615	1/16/2015	34.72 - 59.72	36.62	NE	<0.0053	<0.00022 U	<0.0053	<0.011	0.000047 J J	0.0014	<0.0053		<0.00011	<0.0053	0.0739	0.0178	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00072 J	<0.0053	0.000077 J J
	P66-ROX-011615-DUP	1/16/2015		36.62	NE	<0.0054	<0.0054	<0.0054	<0.011	0.001 J	0.0015	<0.0054		0.00014	<0.0054	0.0682	0.0165	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0016 J	<0.0054	0.00086 J
P-74	P74-ROX-050712	5/7/2012	44.43 - 69.43	39.92	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00016 J	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000047 J	0.0089	<0.0001
	P74-ROX-080612	8/6/2012		40.71	NE	<0.005	<0.00082 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.009	0.0103	0.0014 J	0.001 J	<0.005	<0.005	<0.005	<0.01	<0.00012 U	0.0158	<0.0001
	P74-ROX-110112	11/1/2012		41.72	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.0003	<0.0052		<0.0001	<0.0052	0.0123	0.0136	0.0054 J	0.002 J	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00013	0.0307 J	<0.0001
	P74-ROX-011713	1/17/2013		42.65	NE	<0.0051	<0.0051	<0.0051	<0.01	0.000038 J	0.00038	<0.0051		<0.0001	<0.0051	0.0156	0.0198	<0.01	0.001 J	<0.0051	<0.0051	<0.0051	<0.01	0.00023	0.0298	0.000048 J
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0046 U	<0.0001
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00014	0.00011	<0.0054		<0.00011	<0.0054	0.0019	0.00019 J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00008 U	0.008	0.000074 J
	P74-ROX-101413	10/14/2013		41.72	NE	<0.0054	0.00047 J	<0.0054	<0.011	0.00015	0.00025	<0.0054		<0.00011	<0.0054	0.0073	0.0079	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.000079	0.0125	0.000057 J
	P74-ROX-012414	1/24/2014		43.35	NE	<0.0051	0.00048 J	<0.0051	<0.01	0.000088 J	0.00028	<0.0051		<0.0001	<0.0051	0.0088	0.0106	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00014 U	0.0278	0.000049 J
	P74-ROX-041514	4/15/2014		44.74	NE	<0.0059	<0.0014 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.0017 J	0.0022 J	<0.012	<0.012	<0.0059	<0.0059 UJ	<0.0059	<0.012	0.000054 JB J	<0.0059 UJ	<0.00012
	P74-ROX-070814	7/8/2014		43.02	NE	<0.0057	0.00039 J	<0.0057	<0.011	<0.00011	0.00011	<0.0057		<0.00011	<0.0057	0.0034	0.003	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.000054 J	<0.0057	<0.00011
	P74-ROX-101414	10/14/2014		41.48	NE	<0.005	<0.0019 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P74-ROX-011915	1/19/2015	44.43 - 69.43	43.47	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000053 J	0.00023	<0.0053		<0.00011	<0.0053	0.0077	0.0107	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00015 B	0.0169	0.000038 J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-050812	5/8/2012	48.17 - 63.17	42.75	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00021	<0.0051		<0.0001	<0.0051	0.0121	0.0151	<0.01	0.0014 J	<0.0051	<0.0051	<0.0051	<0.01	0.00021	<0.0051	<0.0001
	P93A-ROX-080912	8/9/2012		43.66	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00021	<0.0054		<0.00011	<0.0054	0.0097	0.013	<0.011	0.00096 J	<0.0054	<0.0054	<0.0054	<0.011	0.00025	0.208	<0.00011
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00029	<0.0052		<0.0001	<0.0052	0.015	0.0194	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028 B	0.19	<0.0001
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.016	0.0206	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00034 B	0.217	<0.0001
	P93A-ROX-012313	1/23/2013		45.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0096	0.0093	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00024	0.168	<0.0001
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0094	0.009	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00023	0.165	<0.0001
	P93A-ROX-041113	4/11/2013		46.29	NE	<0.005	<0.005	<0.005	<0.01	0.000046 J	0.0003	<0.005		<0.0001	<0.005	0.0146 J	0.0098	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00035	0.2	0.00004 J
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00025	<0.005		<0.0001	<0.005	0.0146 J	0.0096	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00024	0.179	<0.0001
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00023	<0.0056		<0.00011	<0.0056	0.0089	0.0062	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00021	0.107	<0.00011
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00028	<0.005		<0.0001	<0.005	0.0128	0.0085	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00013	0.0837 J	<0.0001
	P93A-ROX-012914	1/29/2014		46.53	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		<0.00011	<0.0054	0.0133	0.0072	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00022 B	0.105	<0.00011
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.0056	<0.0012 U	<0.0056	<0.011	<0.00011	0.00027	<0.0056		<0.00011	<0.0056	0.0086	0.0048	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00018 B J	0.0735	<0.00011
	P93A-ROX-071814	7/18/2014		45.70	NE	<0.0057	<0.00077 U	<0.0057	<0.011	<0.00011	0.00024	<0.0057		<0.00011	<0.0057	0.0084	0.0053	<0.011	<0.011	0.0059	<0.0057	<0.0057	<0.011	0.00017 B	0.0355	<0.00011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<0.0057	<0.00041 U	<0.0057	<0.011	<0.00011	0.00025	<0.0057		<0.00011	<0.0057	0.0095	0.0062	<0.011	<0.011	0.0052 J	<0.0057	<0.0057	<0.011	0.00017 B	0.0396	<0.00011
	P93A-ROX-101514	10/15/2014		45.06	NE	<0.0052	0.00024 J	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.0114	0.0095	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0003	0.0471	<0.0001
	P93A-ROX-101514-DUP	10/15/2014		45.06	NE	<0.0054 UJ	0.00046 J J	<0.0054 UJ	<0.011 UJ	<0.00011 UJ	0.00039 J	<0.0054 UJ		<0.00011 UJ	<0.0054 UJ	0.0122 J	0.0101 J	<0.011 UJ	<0.011 UJ	0.0011 J J	<0.0054 UJ	<0.0054 UJ	<0.011 UJ	0.0003 J	0.05 J	<0.00011 UJ
	P93A-ROX-012715	1/27/2015	43.07 - 53.07	46.05	NE	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005		<0.0002	<0.005	0.008	0.0038	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	0.00026 J	0.09	<0.001
P-93B	P93B-ROX-050812	5/8/2012	74.60 - 76.60	42.79	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	0.178	<0.00011
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00026	0.00045 B	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.13	<0.0001
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0003	0.0005 B	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.114	<0.0001
	P93B-ROX-012313	1/23/2013		45.89	NE	0.00024 J J	0.003 J	<0.0053	<0.011	0.00013	0.00012	0.00058 J		0.00012	<0.0053	<0.00021	0.00012 J	<0.011	0.0014 J	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.176	0.00013
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0051	0.0013 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.122	<0.0001
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.0056	0.0005 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000034 J	0.151	<0.00011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.069	<0.0001
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.082	<0.0001
	P93B-ROX-012814	1/28/2014		46.58	NE	<0.0055	0.00045 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000022 U	0.074	<0.00011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0051	0.00048 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000024 U	0.0927	<0.0001
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0719	<0.0001
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.0053	<0.00098 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0861	<0.00011
	P93B-ROX-071714	7/17/2014		45.75	NE	<0.0052	<0.00046 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000023 U	<0.0052 UJ	<0.0001
	P93B-ROX-101514	10/15/2014		45.15	NE	<0.0056	0.00024 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.128	<0.00011
	P93B-ROX-012315	1/23/2015		47.24	NE	<0.0053	0.00025 J	<0.0053	<0.011	<0.00011	<0.000017 U	<0.0053		<0.00011	<0.0053	0.00002 J	<0.0021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0979	<0.00011
	P93B-ROX-012315-DUP	1/23/2015	74.60 - 76.60	47.24	NE	<0.0053	0.00031 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.000023 J	0.000041 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	0.123	<0.00011
	P93B-ROX-021915	2/19/2015		47.24	NE																					
P-93C	P93C-ROX-050812	5/8/2012	94.26 - 96.26	42.68	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.0055 UJ	0.0025 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000026 J	0.0352	<0.00011
	P93C-ROX-080813	8/8/2013		43.31	NE																					
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.005 J	<0.0001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.0051	0.00051 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0052	<0.00048 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	P93C-ROX-071714	7/17/2014		45.61	NE	<0.0052	<0.00035 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000024 U	<0.0087 UJ	<0.0001
	P93C-ROX-101514	10/15/2014		44.99	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	P93C-ROX-011915	1/19/2015	92.47 - 97.47	48.22	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.000033 U	<0.000042 U	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000033 U	0.0309	<0.00011
	P93C-ROX-021915	2/19/2015		48.22	NE																					

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93D	P93D-ROX-050812	5/8/2012	125.75 - 127.75	42.96	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	<0.00042 U	0.00076 J	0.0011 J	<0.0052	<0.0052	<0.0052	<0.01	0.000054	<0.0052	<0.0001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00027	0.00036	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000042 J	<0.0053	<0.00011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0087 U	<0.0001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.0056 UJ	0.00045 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.000059 U	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	<0.000056	<0.0056 UJ	<0.00011
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005	<0.005	<0.005	<0.01	0.000087 J	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.005	<0.005	<0.005	<0.01 UJ	<0.00005	<0.005 UJ	0.000084 J
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	<0.0053	<0.00011
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.0053	0.00036 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00003 U	<0.0053	<0.00011
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.0052	<0.00025 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000022 U	<0.0052 UJ	<0.0001
	P93D-ROX-101514	10/15/2014		45.14	NE	<0.0054	0.00031 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.0022	<0.0022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000019 J	0.0458	<0.00011
	P93D-ROX-110414	11/4/2014		45.14	NE																					
	P93D-ROX-012315	1/23/2015	125.75 - 127.75	42.28	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.0021	0.000019 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.044	<0.00011
	P93D-ROX-021915	2/19/2015		42.28	NE																					
P-114	P114-ROX-050912	5/9/2012	32.67 - 52.67	28.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0002	<0.0002	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.00005	<0.0052	<0.0001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-012313	1/23/2013		30.22	NE	<0.0053 UJ	0.0024 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0052	0.00047 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000071 J	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000059	<0.0055	<0.00011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000052 J	<0.0053	<0.00011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P114-ROX-012814	1/28/2014		32.11	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015 B	<0.0054	<0.00011
	P114-ROX-042114	4/21/2014		32.22	NE	<0.0051	0.0026 JB	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01 UJ	<0.000051	<0.0051	<0.0001
	P114-ROX-071814	7/18/2014		30.87	NE	<0.0051	<0.00028 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00012 U	<0.0051	<0.0001
	P114-ROX-101714	10/17/2014		29.43	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.0023	<0.0023	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P114-ROX-012115	1/21/2015	32.67 - 52.67	31.53	NE	<0.0056	0.00091 J	<0.0056	<0.011	<0.00002 U	0.000048 J	<0.0056		<0.00011	<0.0056	<0.000092 U	<0.00012 U	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000046 U	<0.0056	<0.000042 U
ROST-3-MW (ROST-3-PZ)	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.0052	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0002 J	0.00017 J	<0.01	0.0087 J	<0.0052	<0.0052	<0.0052	<0.01	0.000043 J	<0.0052	<0.0001
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.0054	0.0049 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00031	0.00038 J	<0.011	0.0056 J	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.0053	0.0017 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00028	0.00031	<0.011	0.0019 J	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0061	0.0087	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00068	<0.005	<0.0001
	ROST3MW-ROX-040513	4/5/2013		42.24	NE	<0.0054	0.00044 J	<0.0054	<0.011	<0.00011	0.00017	<0.0054		<0.00011	<0.0054	0.0029	0.0039	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00055	<0.0054 UJ	<0.00011
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00043	<0.0054		<0.00011	<0.0054	0.0105 J	0.0142	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00073	<0.0054 UJ	<0.000044 U
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00012	<0.0054		<0.00011	<0.0054	0.0024	0.0026	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00014	<0.0054 UJ	0.000044 J
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0011	0.00099	<0.011 UJ	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.0002	<0.0053 UJ	<0.00011
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.006	<0.00076 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.00075	0.0008	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.0001	<0.006	<0.00012
	ROST3MW-ROX-071414	7/14/2014		41.88	NE	<0.0054	<0.0004 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00092	0.00097	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00016 U	<0.0054	<0.00011
	ROST3MW-ROX-100914	10/9/2014		41.31	NE	<0.0056	<0.00026 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.00075 J	0.00057 J	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00014 B	<0.0056	<0.00011
	ROST3MW-ROX-011515	1/15/2015	37.81 - 47.81	41.83	NE	<0.0057	0.00045 J J	<0.0057	<0.011	0.000022 J J	0.000035 J J	<0.0057		<0.00011	<0.0057	0.001 J	0.00024 J	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.0001 J	<0.0057	0.000033 J J
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.00058 U	<0.005	<0.01	<0.0001	0.00022	<0.005		<0.0001	<0.005	0.0044	0.0049	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00082	<0.005	0.000041 J
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.0053	0.0015 J	<0.0053	<0.011	<0.000041 U	0.00032 B	<0.0053		<0.00011	<0.0053	0.0102	0.0136	<0.011	0.00098 J	<0.0053	<0.0053	<0.0053	<0.011	0.0014	0.0023 J	<0.000081 U
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.0052	0.0018 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	0.00041	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002	<0.0052	<0.0001
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000064 J	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00012	<0.0053	<0.00011
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.000069 J	<0.0055		<0.00011	<0.0055	0.00062	0.000078 J	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00018	<0.0055 U	<0.00011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000099 J	0.00027	<0.0054		<0.00011	<0.0054	0.0027 J	0.0021	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00052	0.00057 J J	<0.00009 U
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.002	0.00095	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	<0.0053	<0.00011
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.00019 J	<0.00024	<0.01 UJ	<0.01 UJ	<0.0059	<0.0059	<0.0059	<0.01 UJ	0.000077	<0.005 UJ	<0.00012
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.0056	<0.00038 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000065 J	<0.00022	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000051 J	<0.0056	<0.00011
	ROST4C-ROX-071114	7/10/2014		42.22	NE	<0.0053	<0.00031 U	<0.0053	<0.011	<0.0001	<0.0001	<0.0053		<0.0001	<0.0053	0.00021	<0.0002	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00012 U	<0.0053	<0.0001
	ROST4PZC-ROX-100914	10/9/2014		41.30	NE	<0.0056	<0.00032 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.0022	<0.0022	<0.011	0.00071 J	<0.0056	<0.0056	<0.0056	<0.011	<0.000088 U	0.00088 J	<0.00011
	ROST4PZC-ROX-011515	1/15/2015	34.95 - 44.95	41.65	NE	<0.0057	0.0003 J J	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	0.000038 J	0.000018 J J	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00004 J J	<0.0057	0.000022 J J

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	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)	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]	0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
T-12	T12-ROX-050912	5/9/2012	46.72 - 72.72	42.62	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00024	<0.005		<0.0001	<0.005	0.0164	0.0254	<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.01	0.00062	0.0094	0.000039 J
	T12-ROX-080212	8/2/2012		41.92	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000046 J	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0294	0.0021 J	0.0027 J	<0.0054	<0.0054	<0.0054	<0.011	0.00089	0.042	0.000062 J
	T12-ROX-110512	11/5/2012		43.91	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0232	0.0354	0.00096 J	0.0015 J	<0.005	<0.005	<0.005	<0.01	0.00083	<0.005 UJ	0.000048 J
	T12-ROX-011813	1/18/2013		44.50	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	0.00046	<0.0053		<0.00011	<0.0053	0.0241	0.0322	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0011	0.0265	0.000067 J
	T12-ROX-041513	4/15/2013		44.99	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00037	<0.0051		<0.0001	<0.0051	0.0289	0.0444	0.0047 J	0.0042 J	<0.0051	<0.0051	<0.0051	<0.01	0.0011	0.0149	0.000063 J
	T12-ROX-071613	7/16/2013		42.33	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000044 J	0.00034	<0.0054		<0.00011	<0.0054	0.0236	0.0331	0.0029 J J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	0.0514 J	<0.00009 U
	T12-ROX-101513	10/15/2013		43.73	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0319	0.0018 J	0.0032 J	<0.0054	<0.0054	<0.0054	<0.011	0.00077	0.0083	0.00009 J
	T12-ROX-012414	1/24/2014		45.26	NE	<0.0051	0.00044 J	<0.0051	<0.01	<0.0001	0.00035	<0.0051		<0.0001	<0.0051	0.0215	0.0326	0.0022 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.001	0.0498	0.00006 J
	T12-ROX-041514	4/15/2014		46.72	NE	<0.0056	<0.00034 U	<0.0056	<0.011	<0.00011	0.0003	<0.0056		<0.00011	<0.0056	0.0189	0.0283	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00078	0.0672 J	0.00005 J
	T12-ROX-070814	7/8/2014		45.13	NE	<0.0054	0.00038 J	<0.0054	<0.011	<0.00011	0.00022	<0.0054		<0.00011	<0.0054	0.015	0.0245	0.0092 J	0.0033 J	<0.0054	<0.0054	<0.0054	<0.011	0.00051	<0.0054	<0.00011
	T12-ROX-101714	10/17/2014		44.40	NE	<0.0056	0.00061 J	<0.0056	<0.011	<0.00011	0.00031	<0.0056		<0.00011	<0.0056	0.022	0.0369	0.003 J	0.0059 J	<0.0056	<0.0056	<0.0056	<0.011	0.00079	0.0154	<0.00011
	T12-ROX-011915	1/19/2015	46.83 - 72.83	45.27	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00032	<0.0053	0.0069 JN	<0.00011	<0.0053	0.021	0.0332	0.0055 J	0.0016 J	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0155	0.000055 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 1 Tables).

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

5 Beginning in 4Q13, professional judgment criteria used to review common laboratory contaminants was reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

6 The laboratory has been requested to perform a library search in all samples for butane, hexane, isopentane, 1,2,3-trimethylbenzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

Indicates a historical exceedance of screening criteria.

Indicates a current exceedance of screening criteria.

Empty cell without a value indicates previous quarter analyte result was rejected, the analyte was not analyzed, or the TIC was not identified.

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 non-detect.
U = Result is non-detect.

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
MW-23

Location	Sample ID	Depth	Sample Date	Hydrocarbons			VOCs																	
				TPH-GRO (VOA)			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane (Methyl chloroform)			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
							3.4			2			0.0035			0.02			23			0.06					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	18.7			< 0.0079	U		< 0.0032	U		< 0.0032	U		< 0.0032	U		< 0.0032	U		< 0.0032	U		< 0.0079	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	18.7			< 0.0072	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0072	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 12	U		< 0.0045	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0045	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromo-3-chloropropane			1,2-Dibromoethane			1,2-Dichlorobenzene			1,2-Dichloroethane		
				0.46			0.000017			5			87			0.002			0.0004			17			0.02		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0079	U		< 0.0079	U		< 0.0079	U		0.0165			< 0.0036	U		< 0.0036	U		< 0.0032	U		< 0.0032	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0072	U		< 0.0072	U		< 0.0072	U		0.0302			< 0.0036	U		< 0.0036	U		< 0.0029	U		< 0.0029	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0045	U		< 0.0045	U		< 0.0045	U		< 0.0045	U		< 0.0029	U		< 0.0029	U		< 0.0018	U		< 0.0018	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				1,2-Dichloropropane			1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			2,2-Dichloropropane			2-Butanone		
				0.03			2						0.83			2			0.031						17		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0032	U		0.0039	J		< 0.0032	U		< 0.0079	U		< 0.0032	U		< 0.039	U	UJ	< 0.0079	U	UJ	< 0.016	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0029	U		0.0072			< 0.0029	U		< 0.0072	U		< 0.0029	U		< 0.036	U	UJ	< 0.0072	U	UJ	< 0.014	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0018	U		< 0.0045	U		< 0.0018	U		< 0.0045	U		< 0.0018	U		< 0.023	U	UJ	< 0.0045	U	UJ	< 0.0091	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				2-Chloroethyl vinyl ether			2-Chlorotoluene			2-Hexanone (Methyl N-Butyl Ketone)			4-Chlorotoluene			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Acetone			Acrolein			Acrylonitrile		
							4			0.16						2.5			25			0.014			0.0006		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.78	U		< 0.0079	U		< 0.016	U		< 0.0079	U		< 0.0079	U	UJ	0.0493			< 0.039	U		< 0.039	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 1	U		< 0.0072	U		< 0.014	U		< 0.0072	U		< 0.0072	U	UJ	0.0497			< 0.036	U		< 0.036	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.59	U		< 0.0045	U		< 0.0091	U		< 0.0045	U		< 0.0045	U	UJ	< 0.0091	U		< 0.023	U		< 0.023	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				Benzene			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Carbon disulfide			Carbon tetrachloride		
				0.03			0.86						0.6			0.8			0.2			32			0.07		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.00079	U		< 0.0079	U		< 0.0079	U		< 0.0032	U		< 0.0032	U		< 0.0032	U		0.0053	J		< 0.0032	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	0.00059	J		< 0.0072	U		< 0.0072	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		0.0037	J		< 0.0029	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.00045	U		< 0.0045	U		< 0.0045	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		0.0006	J		< 0.0018	U	

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APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
MW-23

Location	Sample ID	Depth	Sample Date	VOCs																				
				Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			cis-1,2-Dichloroethene			cis-1,3-Dichloropropene			Cymene (p-Isopropyltoluene)		
				1			0.4			1500			0.3			110			0.4								
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0032	U		< 0.0032	U		< 0.0079	U		< 0.0032	U		< 0.0079	U		< 0.0032	U		< 0.0032	U		0.0035	J	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0029	U		< 0.0029	U		< 0.0072	U		< 0.0029	U		< 0.0072	U		< 0.0029	U		< 0.0029	U		0.0064	J	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0018	U		< 0.0018	U		< 0.0045	U		< 0.0018	U		< 0.0045	U		< 0.0018	U		< 0.0018	U		0.00035	J	

Location	Sample ID	Depth	Sample Date	VOCs																				
				Dibromomethane			Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			Ethyl methacrylate			Ethylbenzene			Hexachlorobutadiene			Isopropylbenzene (Cumene)			m,p-Xylenes		
				28			43			0.02						13			2.2			91					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0079	U		< 0.0032	U		< 0.0032	U		< 0.0079	U	UJ	0.0025	J		< 0.0079	U		0.0022	J		0.0028	J	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0072	U		< 0.0029	U		< 0.0029	U		< 0.0072	U	UJ	0.004			< 0.0072	U		0.0036	J		0.006		
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0045	U		< 0.0018	U		< 0.0018	U		< 0.0045	U	UJ	< 0.0018	U		< 0.0045	U		< 0.0045	U		< 0.0018	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				Methyl tert-Butyl Ether (MTBE)			Naphthalene			n-Butylbenzene			n-Propylbenzene			o-Xylenes			sec-Butylbenzene			Styrene			tert-Butylbenzene		
							12			52			31			190						4					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0032	U		0.0081			0.004	J		0.0023	J		0.0069			0.002	J		< 0.0079	U		< 0.0079	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0029	U		0.0143			0.0083			0.0044	J		0.0122			0.0034	J		< 0.0072	U		0.0006	J	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0018	U		0.00098	J		0.00036	J		< 0.0045	U		0.0003	J		< 0.0045	U		< 0.0045	U		< 0.0045	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene			Trichloroethene			Trichlorofluoromethane			Vinyl acetate			Vinyl chloride		
				0.06			12			0.7						0.06			34			170			0.01		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 0.0032	U		0.00046	J		< 0.0032	U		< 0.0032	U		< 0.0032	U		< 0.0032	U		< 0.0079	U		< 0.0032	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 0.0029	U		0.0009	J		< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0072	U		< 0.0029	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.0018	U		0.00046	J		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0045	U		< 0.0018	U	

Location	Sample ID	Depth	Sample Date	VOCs			SVOCs																	
				Xylenes (total)			1,2-Diphenylhydrazine			1-Methylnaphthalene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol		
				150						130			270			0.2			1			9			0.2		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	0.0097		J	< 1.8	U		4.18			< 3.5	U		< 3.5	U		< 3.5	U		< 3.5	U		< 7	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	0.0181		J	< 1.8	U		3.46			< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 7.1	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	0.0003	J		< 0.29	U		0.0295	J		< 0.58	U		< 0.58	U		< 0.58	U		< 0.58	U		< 1.2	U	

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APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
MW-23

Location	Sample ID	Depth	Sample Date	SVOCs																			
				2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Chloronaphthalene			2-Chlorophenol			2-Methylnaphthalene			2-Methylphenol (o-Cresol)			2-Nitroaniline			2-Nitrophenol		
				0.0008			0.0007			49			4			1.9			15			0.7					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 3.5	U		< 3.5	U		< 1.8	U		< 1.8	U		2.87			< 3.5	U		< 3.5	U		< 3.5	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 3.6	U		< 3.6	U		< 1.8	U		< 1.8	U		2.14			< 3.6	U		< 3.6	U		< 3.6	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U		< 0.58	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				3 & 4-Methylphenol (m & p-Cresol)			3,3'-Dichlorobenzidine			3-Nitroaniline			4,6-Dinitro-2-methylphenol (4,6-dinitro-o-cresol)			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol (p-Chloro-m-cresol)			4-Chlorophenyl phenyl ether			4-Nitrophenol		
							0.007																				
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 3.5	U		< 1.8	U		< 3.5	U		< 3.5	U		< 1.8	U		< 3.5	U		< 1.8	U		< 7	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 3.6	U		< 1.8	U		< 3.6	U		< 3.6	U		< 1.8	U		< 3.6	U		< 1.8	U		< 7.1	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.58	U		< 0.29	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.29	U		< 1.2	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				4-Nitrophenylamine			Acenaphthene			Acenaphthylene			Aniline			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
				0.14			570			85			0.064			12000			0.9			0.09			0.9		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 3.5	U		0.522			0.211			< 3.5	U		1.08			0.63			0.327			0.227		
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 3.6	U		0.476			0.186			< 3.6	U		1.07			0.7			0.381			0.241		
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.58	U		0.0051	J		0.0059			< 0.58	U		0.0136			0.0114			0.0131			0.0116		

Location	Sample ID	Depth	Sample Date	SVOCs																			
				Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic Acid			Benzyl alcohol			bis(2-Chloroethoxy)methane			bis(2-Chloroethyl)ether			Bis(2-chloroisopropyl)ether			bis(2-Ethylhexyl)phthalate		
				2300			9			400			3						0.0004						46		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	0.336			0.0663			< 3.5	U		< 3.5	U		< 1.8	U		< 1.8	U		< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	0.374			0.0777			< 3.6	U		< 3.6	U		< 1.8	U		< 1.8	U		< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	0.0131			0.0046	J		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U	

Location	Sample ID	Depth	Sample Date	SVOCs																			
				Butyl benzyl phthalate			Chrysene (1,2-Benzphenanthracene)			Dibenzo(a,h)anthracene			Dibenzofuran			Diethyl phthalate			Dimethyl phthalate			Di-n-butyl phthalate			Di-n-octyl phthalate		
				930			88			0.09			3			470						2300			1600		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 1.8	U		1.13			0.147			0.844			< 1.8	U		< 1.8	U		< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 1.8	U		1.19			0.165			0.736			< 1.8	U		< 1.8	U		< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.29	U		0.0189			0.0057	J		< 0.12	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U	

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APPENDIX A
SUMMARY OF SOIL ANALYTICAL DETECTIONS
MW-23

Location	Sample ID	Depth	Sample Date	SVOCs																				
				Fluoranthene			Fluorene			Hexachlorobenzene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene			Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)			Nitrobenzene		
				3100			560			0.4			10			0.5			0.9			8			0.1		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	0.388			2.12			< 1.8	U		< 3.5	U		< 1.8	U		0.121			< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	0.398			1.93			< 1.8	U		< 3.6	U		< 1.8	U		0.138			< 1.8	U		< 1.8	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	0.0066			0.0218			< 0.29	U		< 0.58	U		< 0.29	U		0.0082			< 0.29	U		< 0.29	U	

Location	Sample ID	Depth	Sample Date	SVOCs																				
				N-Nitrosodimethylamine			N-Nitrosodi-n-propylamine			N-Nitrosodiphenylamine			p-Chloroaniline			Pentachlorophenol			Phenanthrene			Phenol			Pyrene		
				0.000007			0.00005			1			0.7			0.03			210			100			2300		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 1.8	U		< 1.8	U		< 1.8	U		< 3.5	U		< 3.5	U		12.7			< 1.8	U		2.72		
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 1.8	U		< 1.8	U		< 1.8	U		< 3.6	U		< 3.6	U		12.7			< 1.8	U		2.9		
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.29	U		< 0.29	U		< 0.29	U		< 0.58	U		< 0.58	U		0.174			< 0.29	U		0.0461		

Location	Sample ID	Depth	Sample Date	SVOCs		
				Pyridine		
				78		
				Result (mg/kg)	Lab Quals	URS Quals
MW-23	MW23-ROX-011915 (4-6)	4 - 6 ft	1/19/2015	< 3.5	U	
MW-23	MW23-ROX-011915 (4-6)-DUP	4 - 6 ft	1/19/2015	< 3.6	U	
MW-23	MW23-ROX-012015 (32-36)	32 - 36 ft	1/20/2015	< 0.58	U	

Laboratory Qualifiers

< "U" = Not detected at the reporting limit.

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

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

B = Analyte is detected in the method blank.

URS Qualifiers

J **=** The result is estimated.

UJ = The result is estimated non-detect.

= Exceedance of residential soil screening criteria, see Notes for criteria source

Notes: L brary searches for TICs are used to look for the presence of non-target analytes.

TICs reported are those present at levels above ten percent of associated internal standard responses.

1 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table A.

2 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

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APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	Hydrocarbons			VOCs																	
				TPH-GRO (VOA)			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane (Methyl chloroform)			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
							3.4			2			0.0035			0.02			23			0.06					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 12	U		< 0.0057	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0057	U	
P-57	P57-40-120814	40 ft	12/8/2014	31.1			< 0.0056	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0056	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 6.7	U		< 14	U		< 5.5	U		< 5.5	U		< 5.5	U		< 5.5	U		< 5.5	U		< 14	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 5.6	U		< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0058	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	1490			< 1.3	U		< 0.51	U		< 0.51	U		< 0.51	U		< 0.51	U		< 0.51	U		< 1.3	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 11	U		< 0.0053	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0053	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 12	U		< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0058	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	142		J	< 0.34	U		< 0.14	U		< 0.14	U		< 0.14	U		< 0.14	U		< 0.14	U		< 0.34	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	77.7		J	< 0.61	U		< 0.24	U		< 0.24	U		< 0.24	U		< 0.24	U		< 0.24	U		< 0.61	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 6.2	U		< 0.0054	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0054	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,3-Trimethylbenzene			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromo-3-chloropropane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				0.46			0.000017						5			87			0.002			0.0004			17		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0057	U		< 0.0057	U					< 0.0057	U		0.0035	J		< 0.0026	U		< 0.0026	U		< 0.0023	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0056	U		< 0.0056	U					< 0.0056	U		0.101			< 0.0027	U		< 0.0027	U		< 0.0022	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 14	U		< 14	U					< 14	U		124			< 0.0027	U		< 0.0027	U		< 5.5	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0058	U		< 0.0058	U					< 0.0058	U		< 0.0058	U		< 0.0027	U		< 0.0027	U		< 0.0023	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.3	U		< 1.3	U		60	JN		< 1.3	U		53.7			< 0.0029	U		< 0.0029	U		< 0.51	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0053	U		< 0.0053	U					< 0.0053	U		< 0.0053	U		< 0.0029	U		< 0.0029	U		< 0.0021	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0058	U		< 0.0058	U					< 0.0058	U		< 0.0058	U		< 0.0026	U		< 0.0026	U		< 0.0023	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.34	U		< 0.34	U					< 0.34	U		< 0.34	U		< 0.0029	U		< 0.0029	U		< 0.14	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.61	U		< 0.61	U					< 0.61	U		< 0.61	U		< 0.0029	U		< 0.0029	U		< 0.24	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0054	U		< 0.0054	U					< 0.0054	U		< 0.0054	U		< 0.0028	U		< 0.0028	U		< 0.0022	U	

Location	Sample ID	Depth	Sample Date	VOCs																				
				1,2-Dichloroethane			1,2-Dichloropropane			1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			1-Butanone, 1-cyclohexyl-		
				0.02			0.03			2						0.83			2			0.031					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0023	U		< 0.0023	U		< 0.0057	U		< 0.0023	U		< 0.0057	U		< 0.0023	U		< 0.028	U				
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0022	U		< 0.0022	U		0.0319			< 0.0022	U		< 0.0056	U		< 0.0022	U		< 0.028	U				
P-57	P57-50-120814	50 ft	12/8/2014	< 5.5	U		< 5.5	U		31.4			< 5.5	U		< 14	U		< 5.5	U		< 68	U				
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0023	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.029	U				
P-92C	P92C-50-120314	50 ft	12/3/2014	< 0.51	U		< 0.51	U		16.6			< 0.51	U		< 1.3	U		< 0.51	U		< 6.4	U				
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0021	U		< 0.0021	U		< 0.0053	U		< 0.0021	U		< 0.0053	U		< 0.0021	U		< 0.027	U				
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0023	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.029	U				
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.14	U		< 0.14	U		< 0.34	U		< 0.14	U		< 0.34	U		< 0.14	U		< 1.7	U		1.9	JN	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.24	U		< 0.24	U		< 0.61	U		< 0.24	U		< 0.61	U		< 0.24	U		< 3	U				
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0022	U		< 0.0022	U		< 0.0054	U		< 0.0022	U		< 0.0054	U		< 0.0022	U		< 0.027	U				

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	VOCs																							
				1H-Indene, 2,3-dihydro-1,6-dimethyl-			1-Iodo-2-methylundecane			1-Octanol, 2-butyl-			1-Phenyl-1-butene			2,2-Dichloropropane			2-Butanone			2-Butene, 3-chloro-1-phenyl-, (Z)-			2-Chloroethyl vinyl ether		
																			17								
				Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014							0.018	JN					< 0.0057	U		< 0.011	U					< 0.0057	U	
P-57	P57-40-120814	40 ft	12/8/2014													< 0.0056	U		< 0.011	U					< 0.0056	U	
P-57	P57-50-120814	50 ft	12/8/2014	41	JN								54	JN		< 14	U		< 27	U					< 14	U	
P-92C	P92C-32-120314	32 ft	12/3/2014													< 0.0058	U	UJ	< 0.012	U					< 0.0058	U	UJ
P-92C	P92C-50-120314	50 ft	12/3/2014													< 1.3	U		< 2.6	U		41	JN		< 1.3	U	
P-92C	P92C-93-120314	93 ft	12/3/2014													< 0.0053	U	UJ	< 0.011	U					< 0.0053	U	UJ
P-93C	P93C-40-120414	40 ft	12/4/2014													< 0.0058	U	UJ	< 0.012	U					< 0.0058	U	
P-93C	P93C-50-120414	50 ft	12/4/2014				1.2	JN								< 0.34	U		< 0.68	U					< 0.34	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014													< 0.61	U		< 1.2	U					< 0.61	U	
P-93C	P93C-94-120414	94 ft	12/4/2014													< 0.0054	U	UJ	< 0.011	U					< 0.0054	U	

Location	Sample ID	Depth	Sample Date	VOCs																							
				2-Chlorotoluene			2-Decene, 5-methyl-, (Z)-			2-Hexanone (Methyl N-Butyl Ketone)			3-Phenylbut-1-ene			4-Chlorotoluene			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)			Acetone			Acrolein		
				4						0.16									2.5			25			0.014		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0057	U					< 0.011	U					< 0.0057	U		< 0.0057	U		< 0.011	U		< 0.028	U	UJ
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0056	U					< 0.011	U					< 0.0056	U		< 0.0056	U		< 0.011	U		< 0.028	U	UJ
P-57	P57-50-120814	50 ft	12/8/2014	< 14	U					< 27	U		49	JN		< 14	U		< 14	U		< 27	U		< 68	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0058	U					< 0.012	U					< 0.0058	U		< 0.0058	U		< 0.012	U		< 0.029	U	UJ
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.3	U					< 2.6	U					< 1.3	U		< 1.3	U		< 2.6	U		< 6.4	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0053	U					< 0.011	U					< 0.0053	U		< 0.0053	U		< 0.011	U		< 0.027	U	UJ
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0058	U					< 0.012	U					< 0.0058	U		< 0.0058	U		< 0.012	U		< 0.029	U	UJ
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.34	U					< 0.68	U					< 0.34	U		< 0.34	U		< 0.68	U		< 1.7	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.61	U		1.5	JN		< 1.2	U					< 0.61	U		< 0.61	U		< 1.2	U		< 3	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0054	U					< 0.011	U					< 0.0054	U		< 0.0054	U		< 0.011	U		< 0.027	U	UJ

Location	Sample ID	Depth	Sample Date	VOCs																							
				Acrylonitrile			Benzene			Benzene, 1,2,4,5-tetramethyl-			Benzene, 1-ethenyl-3-ethyl-			Benzene, 1-ethyl-2,3-dimethyl-			Benzene, 1-ethyl-3-methyl-			Benzene, 1-methyl-2-(1-methylethyl)-			Benzene, 1-methyl-3-(1-methylethyl)-		
				0.0006			0.03																				
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.028	U		0.0014																				
P-57	P57-40-120814	40 ft	12/8/2014	< 0.028	U		0.0163																				
P-57	P57-50-120814	50 ft	12/8/2014	< 68	U		665			63	JN					44	JN		43	JN		40	JN		50	JN	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.029	U		0.00059																				
P-92C	P92C-50-120314	50 ft	12/3/2014	< 6.4	U		< 0.13	U		53	JN		35	JN		37	JN										
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.027	U		0.00056																				
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.029	U		0.0044																				
P-93C	P93C-50-120414	50 ft	12/4/2014	< 1.7	U		10.1																				
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 3	U		14.6																				
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.027	U		0.0108																				

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APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	VOCs																							
				Benzene, 2-ethyl-1,4-dimethyl-			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Butane			Butane, 2,2-dimethyl-		
							0.86						0.6			0.8			0.2								
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014				< 0.0057	U		< 0.0057	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		0.015	JN				
P-57	P57-40-120814	40 ft	12/8/2014				< 0.0056	U		< 0.0056	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		0.016	JN				
P-57	P57-50-120814	50 ft	12/8/2014	55	JN		< 14	U		< 14	U		< 5.5	U		< 5.5	U		< 5.5	U	UJ						
P-92C	P92C-32-120314	32 ft	12/3/2014				< 0.0058	U		< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U					0.0049	JN	
P-92C	P92C-50-120314	50 ft	12/3/2014	41	JN		< 1.3	U		< 1.3	U		< 0.51	U		< 0.51	U		< 0.51	U							
P-92C	P92C-93-120314	93 ft	12/3/2014				< 0.0053	U		< 0.0053	U		< 0.0021	U		< 0.0021	U		< 0.0021	U							
P-93C	P93C-40-120414	40 ft	12/4/2014				< 0.0058	U		< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U	UJ						
P-93C	P93C-50-120414	50 ft	12/4/2014				< 0.34	U		< 0.34	U		< 0.14	U		< 0.14	U		< 0.14	U							
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014				< 0.61	U		< 0.61	U		< 0.24	U		< 0.24	U		< 0.24	U							
P-93C	P93C-94-120414	94 ft	12/4/2014				< 0.0054	U		< 0.0054	U		< 0.0022	U		< 0.0022	U		< 0.0022	U	UJ						

Location	Sample ID	Depth	Sample Date	VOCs																							
				Butane, 2,3-dimethyl-			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane		
							32			0.07			1			0.4			1500			0.3			110		
				Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014				< 0.0057	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0057	U		< 0.0023	U		< 0.0057	U	
P-57	P57-40-120814	40 ft	12/8/2014				< 0.0056	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0056	U		< 0.0022	U		< 0.0056	U	
P-57	P57-50-120814	50 ft	12/8/2014				< 14	U		< 5.5	U		< 5.5	U		< 5.5	U		< 14	U	UJ	< 5.5	U		< 14	U	UJ
P-92C	P92C-32-120314	32 ft	12/3/2014	0.01	JN		< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.0058	U	
P-92C	P92C-50-120314	50 ft	12/3/2014				< 1.3	U		< 0.51	U		< 0.51	U		< 0.51	U		< 1.3	U		< 0.51	U		< 1.3	U	
P-92C	P92C-93-120314	93 ft	12/3/2014				< 0.0053	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0053	U		< 0.0021	U		< 0.0053	U	
P-93C	P93C-40-120414	40 ft	12/4/2014				< 0.0058	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0058	U		< 0.0023	U		< 0.0058	U	
P-93C	P93C-50-120414	50 ft	12/4/2014				< 0.34	U		< 0.14	U		< 0.14	U		< 0.14	U		< 0.34	U		< 0.14	U		< 0.34	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014				< 0.61	U		< 0.24	U		< 0.24	U		< 0.24	U		< 0.61	U		< 0.24	U		< 0.61	U	
P-93C	P93C-94-120414	94 ft	12/4/2014				0.0009	J		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0054	U		< 0.0022	U		< 0.0054	U	

Location	Sample ID	Depth	Sample Date	VOCs																							
				cis-1,2-Dichloroethene			cis-1,3-Dichloropropene			cis-1-Ethyl-3-methyl-cyclohexane			cis-3-Decene			Cyclohexane			Cyclohexane, (1-methylethyl)-			Cyclohexane, 1,3-dimethyl-, cis-			Cyclohexane, butyl-		
				0.4																							
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0023	U		< 0.0023	U														0.017	JN				
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0022	U		< 0.0022	U														0.19	JN				
P-57	P57-50-120814	50 ft	12/8/2014	< 5.5	U		< 5.5	U														40	JN				
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0023	U		< 0.0023	U																			
P-92C	P92C-50-120314	50 ft	12/3/2014	< 0.51	U		< 0.51	U																			
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0021	U		< 0.0021	U								0.0086	JN										
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0023	U		< 0.0023	U																			
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.14	U		< 0.14	U					1.2	JN											1.6	JN	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.24	U		< 0.24	U		1.4	JN								2.2	JN					1.7	JN	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0022	U		< 0.0022	U																			

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APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	VOCs																							
				Cyclohexane, ethyl-			Cyclohexane, methyl-			Cyclopentane, methyl-			Cymene (p-Isopropyltoluene)			Decane, 3,3,4-trimethyl-			Decane, 3,8-dimethyl-			Decane, 3-methyl-			Dibromomethane		
																									28		
				Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014				0.083	JN		0.016	JN		0.00035	J											< 0.0057	U	
P-57	P57-40-120814	40 ft	12/8/2014	0.24	JN		0.37	JN					0.0053	J											< 0.0056	U	
P-57	P57-50-120814	50 ft	12/8/2014	38	JN					38	JN		9.93	J		59	JN								< 14	U	
P-92C	P92C-32-120314	32 ft	12/3/2014										< 0.0058	U											< 0.0058	U	
P-92C	P92C-50-120314	50 ft	12/3/2014										6.61												< 1.3	U	
P-92C	P92C-93-120314	93 ft	12/3/2014				0.013	JN					< 0.0053	U											< 0.0053	U	
P-93C	P93C-40-120414	40 ft	12/4/2014										< 0.0058	U											< 0.0058	U	
P-93C	P93C-50-120414	50 ft	12/4/2014										0.0888	J					1	JN		1.3	JN		< 0.34	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014										0.107	J								1.4	JN		< 0.61	U	
P-93C	P93C-94-120414	94 ft	12/4/2014										< 0.0054	U											< 0.0054	U	

Location	Sample ID	Depth	Sample Date	VOCs																							
				Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			Ethanone, 1-(2-methylphenyl)-			Ethyl methacrylate			Ethylbenzene			Heptane			Heptane, 2,3,4-trimethyl-			Heptane, 3-methyl-		
				43			0.02									13											
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0023	U		< 0.0023	U					< 0.0057	U		0.0035			0.06	JN					0.021	JN	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0022	U		< 0.0022	U					< 0.0056	U		0.0693			0.18	JN					0.18	JN	
P-57	P57-50-120814	50 ft	12/8/2014	< 5.5	U	UJ	< 5.5	U					< 14	U		14.3						120	JN				
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0023	U		< 0.0023	U					< 0.0058	U		0.0013	J										
P-92C	P92C-50-120314	50 ft	12/3/2014	< 0.51	U		< 0.51	U		59	JN		< 1.3	U		1.73											
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0021	U		< 0.0021	U					< 0.0053	U		< 0.0021	U										
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0023	U		< 0.0023	U					< 0.0058	U		0.0011	J										
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.14	U		< 0.14	U					< 0.34	U		< 0.14	U										
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.24	U		< 0.24	U					< 0.61	U		< 0.24	U										
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0022	U		< 0.0022	U					< 0.0054	U		< 0.0022	U										

Location	Sample ID	Depth	Sample Date	VOCs																							
				Hexachlorobutadiene			Hexane, 2,2,5,5-tetramethyl-			Hexane, 2,2-dimethyl-			Hexane, 2-methyl-			Isopentane			Isopropylbenzene (Cumene)			m,p-Xylenes			Methyl tert-Butyl Ether (MTBE)		
				2.2															91								
				Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0057	U					0.064	JN		0.024	JN		0.012	JN		0.00072	J		0.0027			< 0.0023	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0056	U		0.17	JN								0.013	JN		0.0113			0.0949			< 0.0022	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 14	U														6.11	J		3.77	J		< 5.5	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0058	U											0.045	JN		< 0.0058	U		< 0.0023	U		< 0.0023	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.3	U														4.01			7.68			< 0.51	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0053	U					0.012	JN					0.04	JN		< 0.0053	U		0.00077	J		< 0.0021	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0058	U														< 0.0058	U		< 0.0023	U		< 0.0023	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.34	U														< 0.34	U		< 0.14	U		< 0.14	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.61	U														0.0411	J		< 0.24	U		< 0.24	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0054	U														< 0.0054	U		0.00055	J		< 0.0022	U	

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APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	VOCs																							
				Naphthalene			Naphthalene, decahydro-			Naphthalene, decahydro-, trans-			n-Butylbenzene			Nonane			Nonane, 3-methyl-			Nonane, 4-methyl-			n-Propylbenzene		
				12									52												31		
				Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	0.0017	J								0.00064	J											0.00097	J	
P-57	P57-40-120814	40 ft	12/8/2014	0.0508									0.0103			0.26	JN					0.42	JN		0.0154		
P-57	P57-50-120814	50 ft	12/8/2014	24									18.4												11.7	J	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0058	U								< 0.0058	U											< 0.0058	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	9.63									7.93												7.22		
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0053	U								< 0.0053	U											< 0.0053	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0058	U								< 0.0058	U											< 0.0058	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.34	U					2.1	JN		< 0.34	U					1.2	JN					< 0.34	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.61	U		2.6	JN					< 0.61	U											0.0681	J	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0054	U								< 0.0054	U											< 0.0054	U	

Location	Sample ID	Depth	Sample Date	VOCs																							
				Octane			Octane, 2,6-dimethyl-			Octane, 2,7-dimethyl-			o-Xylenes			Pentane			Pentane, 2,3,3-trimethyl-			Pentane, 2,3,4-trimethyl-			Pentane, 2,4-dimethyl-		
													190														
				Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	0.046	JN					0.1	JN		0.00072	J		0.0061	JN					0.051	JN				
P-57	P57-40-120814	40 ft	12/8/2014	0.46	JN								0.0293			0.018	JN					0.19	JN				
P-57	P57-50-120814	50 ft	12/8/2014				53	JN					< 5.5	U													
P-92C	P92C-32-120314	32 ft	12/3/2014										< 0.0023	U		0.005	JN								0.0062	JN	
P-92C	P92C-50-120314	50 ft	12/3/2014										0.654														
P-92C	P92C-93-120314	93 ft	12/3/2014										< 0.0021	U		0.006	JN		0.0071	JN					0.0059	JN	
P-93C	P93C-40-120414	40 ft	12/4/2014										< 0.0023	U													
P-93C	P93C-50-120414	50 ft	12/4/2014				2.3	JN					< 0.14	U													
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014				3.4	JN					< 0.24	U													
P-93C	P93C-94-120414	94 ft	12/4/2014										< 0.0022	U													

Location	Sample ID	Depth	Sample Date	VOCs																							
				Pentane, 2-methyl-			Pentane, 3-methyl-			sec-Butylbenzene			Styrene			tert-Butylbenzene			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene		
													4						0.06			12			0.7		
				Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	0.0095	JN					< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0023	U		0.0022	J		< 0.0023	U	
P-57	P57-40-120814	40 ft	12/8/2014	0.061	JN					0.0047	J		< 0.0056	U		< 0.0056	U		< 0.0022	U		0.0235			< 0.0022	U	
P-57	P57-50-120814	50 ft	12/8/2014							7.32	J		< 14	U		< 14	U		< 5.5	U		< 14	U		< 5.5	U	
P-92C	P92C-32-120314	32 ft	12/3/2014				0.016	JN		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0023	U		0.0016	J		< 0.0023	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	26	JN					< 1.3	U		< 1.3	U		< 1.3	U		< 0.51	U		< 1.3	U		< 0.51	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	0.014	JN		0.0073	JN		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0021	U		0.001	J		< 0.0021	U	
P-93C	P93C-40-120414	40 ft	12/4/2014							< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0023	U		0.0013	J		< 0.0023	U	
P-93C	P93C-50-120414	50 ft	12/4/2014							0.179	J		< 0.34	U		0.153	J		< 0.14	U		< 0.34	U		< 0.14	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014							0.2	J		< 0.61	U		0.205	J		< 0.24	U		< 0.61	U		< 0.24	U	
P-93C	P93C-94-120414	94 ft	12/4/2014							< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0022	U		0.001	J		< 0.0022	U	

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APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	VOCs																							
				trans-1,3-Dichloropropene			Trichloroethene			Trichlorofluoromethane			Undecane, 2,6-dimethyl-			Undecane, 3,3-dimethyl-			Unknown 1,3-Cyclopentadiene			Unknown Benzene			Vinyl acetate		
							0.06			34															170		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0023	U		< 0.0023	U		< 0.0023	U														< 0.0057	U	UJ
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0022	U		< 0.0022	U		< 0.0022	U														< 0.0056	U	UJ
P-57	P57-50-120814	50 ft	12/8/2014	< 5.5	U		< 5.5	U		< 5.5	U														< 14	U	UJ
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0023	U		< 0.0023	U		< 0.0023	U														< 0.0058	U	UJ
P-92C	P92C-50-120314	50 ft	12/3/2014	< 0.51	U		< 0.51	U		< 0.51	U											37	JN		< 1.3	U	UJ
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0021	U		< 0.0021	U		< 0.0021	U														< 0.0053	U	UJ
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0023	U		< 0.0023	U		< 0.0023	U	UJ													< 0.0058	U	UJ
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.14	U		< 0.14	U		< 0.14	U								2.1	JN					< 0.34	U	UJ
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.24	U		< 0.24	U		< 0.24	U		1.9	JN		3.3	JN								< 0.61	U	UJ
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0022	U		< 0.0022	U		< 0.0022	U	UJ													< 0.0054	U	UJ

Location	Sample ID	Depth	Sample Date	VOCs						SVOCs																	
				Vinyl chloride			Xylenes (total)			1,2-Diphenylhydrazine			1-Methylnaphthalene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol		
				0.01			150						130			270			0.2			1			9		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0023	U	UJ	0.0034			< 0.25	U		< 0.1	U		< 0.51	U		< 0.51	U		< 0.51	U		< 0.51	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.0022	U	UJ	0.124			< 0.26	U		2.32			< 0.52	U		< 0.52	U		< 0.52	U		< 0.52	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 5.5	U		3.77	J		< 0.27	U		8.18			< 0.54	U		< 0.54	U		< 0.54	U		< 0.54	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0023	U		0.00049	J		< 0.26	U		< 0.1	U		< 0.52	U		< 0.52	U		< 0.52	U		< 0.52	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 0.51	U	UJ	8.34			< 1.5	U		26.4			< 2.9	U		< 2.9	U		< 2.9	U		< 2.9	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0021	U		0.00077	J		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U		< 0.58	U		< 0.58	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0023	U		0.00047	J		< 0.27	U		< 0.11	U		< 0.53	U		< 0.53	U		< 0.53	U		< 0.53	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.14	U	UJ	< 0.14	U		< 0.29	U		0.138			< 0.59	U		< 0.59	U		< 0.59	U		< 0.59	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.24	U	UJ	< 0.24	U		< 0.29	U		0.0747	J		< 0.58	U		< 0.58	U		< 0.58	U		< 0.58	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.0022	U		0.00055	J		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U		< 0.58	U		< 0.58	U	

Location	Sample ID	Depth	Sample Date	SVOCs																							
				2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Chloronaphthalene			2-Chlorophenol			2-Methylnaphthalene			2-Methylphenol (o-Cresol)			2-Nitroaniline		
				0.2			0.0008			0.0007			49			4			1.9			15			0.7		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 1	U		< 0.51	U		< 0.51	U		< 0.25	U		< 0.25	U		< 0.1	U		< 0.51	U		< 0.51	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 1	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.26	U		3.73			< 0.52	U		< 0.52	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 1.1	U		< 0.54	U		< 0.54	U		< 0.27	U		< 0.27	U		13			< 0.54	U		< 0.54	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 1	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.26	U		< 0.1	U		< 0.52	U		< 0.52	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 5.9	U		< 2.9	U		< 2.9	U		< 1.5	U		< 1.5	U		38.7			< 2.9	U		< 2.9	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 1.2	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 1.1	U		< 0.53	U		< 0.53	U		< 0.27	U		< 0.27	U		< 0.11	U		< 0.53	U		< 0.53	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 1.2	U		< 0.59	U		< 0.59	U		< 0.29	U		< 0.29	U		< 0.12	U		< 0.59	U		< 0.59	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 1.2	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 1.2	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.12	U		< 0.58	U		< 0.58	U	

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	SVOCs																							
				2-Nitrophenol			3 & 4-Methylphenol (m & p-Cresol)			3,3'-Dichlorobenzidine			3-Nitroaniline			4,6-Dinitro-2-methylphenol (4,6-dinitro-o-cresol)			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol (p-Chloro-m-cresol)			4-Chlorophenyl phenyl ether		
										0.007																
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.51	U		< 0.51	U		< 0.25	U		< 0.51	U		< 0.51	U		< 0.25	U		< 0.51	U		< 0.25	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.52	U		< 0.52	U		< 0.26	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.52	U		< 0.26	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 0.54	U		< 0.54	U		< 0.27	U		< 0.54	U		< 0.54	U		< 0.27	U		< 0.54	U		< 0.27	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.52	U		< 0.52	U		< 0.26	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.52	U		< 0.26	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 2.9	U		< 2.9	U		< 1.5	U		< 2.9	U		< 2.9	U		< 1.5	U		< 2.9	U		< 1.5	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.29	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.53	U		< 0.53	U		< 0.27	U		< 0.53	U		< 0.53	U		< 0.27	U		< 0.53	U		< 0.27	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.59	U		< 0.59	U		< 0.29	U		< 0.59	U		< 0.59	U		< 0.29	U		< 0.59	U		< 0.29	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.29	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.58	U		< 0.29	U	

Location	Sample ID	Depth	Sample Date	SVOCs																							
				4-Nitrophenol			4-Nitrophenylamine			Acenaphthene			Acenaphthylene			Aniline			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene		
							0.14			570			85			0.064			12000			0.9			0.09		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 1	U		< 0.51	U		< 0.0051	U		< 0.0051	U		< 0.51	U		< 0.0051	U		< 0.0051	U		< 0.0051	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 1	U		< 0.52	U		0.0867			0.0247			< 0.52	U		0.0544			0.0106			0.0025	J	
P-57	P57-50-120814	50 ft	12/8/2014	< 1.1	U		< 0.54	U		0.202			0.0752			< 0.54	U		0.119			0.0236			0.0083		
P-92C	P92C-32-120314	32 ft	12/3/2014	< 1	U		< 0.52	U		< 0.0052	U		< 0.0052	U		< 0.52	U		< 0.0052	U		< 0.0052	U		< 0.0052	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 5.9	U		< 2.9	U		0.668			0.286			< 2.9	U		0.176			0.0135			0.0059		
P-92C	P92C-93-120314	93 ft	12/3/2014	< 1.2	U		< 0.58	U		< 0.0058	U		< 0.0058	U		< 0.58	U		< 0.0058	U		< 0.0058	U		< 0.0058	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 1.1	U		< 0.53	U		< 0.0053	U		< 0.0053	U		< 0.53	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 1.2	U		< 0.59	U		0.0121		J	< 0.0059	U		< 0.59	U		0.0097			0.0028	J		< 0.0059	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 1.2	U		< 0.58	U		< 0.0058	U	UJ	< 0.0058	U		< 0.58	U		0.0065			< 0.0058	U		< 0.0058	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 1.2	U		< 0.58	U		< 0.0058	U		< 0.0058	U		< 0.58	U		0.002	J		0.0315			0.0568		

Location	Sample ID	Depth	Sample Date	SVOCs																							
				Benzo(b)fluoranthene			Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic Acid			Benzyl alcohol			bis(2-Chloroethoxy)methane			bis(2-Chloroethyl)ether			Bis(2-chloroisopropyl)ether		
				0.9			2300			9			400			3						0.0004					
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.51	U		< 0.51	U		< 0.25	U		< 0.25	U		< 0.25	U	
P-57	P57-40-120814	40 ft	12/8/2014	0.0074			0.002	J		< 0.0052	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.26	U		< 0.26	U	
P-57	P57-50-120814	50 ft	12/8/2014	0.0141			0.0045	J		0.0058			< 0.54	U		< 0.54	U		< 0.27	U		< 0.27	U		< 0.27	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.52	U		< 0.52	U		< 0.26	U		< 0.26	U		< 0.26	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	0.0042	J		0.0038	J		0.0023	J		< 2.9	U		< 2.9	U		< 1.5	U		< 1.5	U		< 1.5	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.53	U		< 0.53	U		< 0.27	U		< 0.27	U		< 0.27	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.59	U		< 0.59	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	0.0482			0.0437			0.0422			< 0.58	U		< 0.58	U		< 0.29	U		< 0.29	U		< 0.29	U	

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	SVOCs																							
				bis(2-Ethylhexyl)phthalate			Butyl benzyl phthalate			Chrysene (1,2-Benzphenanthracene)			Dibenzo(a,h)anthracene			Dibenzofuran			Diethyl phthalate			Dimethyl phthalate			Di-n-butyl phthalate		
				46			930			88			0.09			3			470						2300		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.25	U		< 0.25	U		< 0.0051	U		< 0.0051	U		< 0.1	U		< 0.25	U		< 0.25	U		< 0.25	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.26	U		< 0.26	U		0.0239			< 0.0052	U		0.138			< 0.26	U		< 0.26	U		< 0.26	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 0.27	U		< 0.27	U		0.0448			< 0.0054	U		0.483		J	< 0.27	U		< 0.27	U		< 0.27	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.26	U		< 0.26	U		< 0.0052	U		< 0.0052	U		< 0.1	U		< 0.26	U		< 0.26	U		< 0.26	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.5	U		< 1.5	U		0.0234			< 0.0059	U		1.65			< 1.5	U		< 1.5	U		< 1.5	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.29	U		< 0.29	U		< 0.0058	U		< 0.0058	U		< 0.12	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.27	U		< 0.27	U		< 0.0053	U		< 0.0053	U		< 0.11	U		< 0.27	U		< 0.27	U		< 0.27	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.29	U		< 0.29	U		0.006			< 0.0059	U		< 0.12	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.29	U		< 0.29	U		0.0046	J		< 0.0058	U		< 0.12	U		< 0.29	U		< 0.29	U		< 0.29	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.29	U		< 0.29	U		0.0407			0.0121			< 0.12	U		< 0.29	U		< 0.29	U		< 0.29	U	

Location	Sample ID	Depth	Sample Date	SVOCs																							
				Di-n-octyl phthalate			Fluoranthene			Fluorene			Hexachlorobenzene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene			Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)		
				1600			3100			560			0.4			10			0.5			0.9			8		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.25	U		< 0.0051	U		< 0.0051	U		< 0.25	U		< 0.51	U		< 0.25	U		< 0.0051	U		< 0.25	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.26	U		0.0127			0.159			< 0.26	U		< 0.52	U		< 0.26	U		< 0.0052	U		< 0.26	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 0.27	U		0.0447			0.462			< 0.27	U		< 0.54	U		< 0.27	U		0.0031	J		< 0.27	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.26	U		< 0.0052	U		0.0014	J		< 0.26	U		< 0.52	U		< 0.26	U		< 0.0052	U		< 0.26	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.5	U		0.02			1.72			< 1.5	U		< 2.9	U		< 1.5	U		0.0015	J		< 1.5	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.29	U		< 0.0058	U		< 0.0058	U		< 0.29	U		< 0.58	U		< 0.29	U		< 0.0058	U		< 0.29	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.27	U		< 0.0053	U		< 0.0053	U		< 0.27	U		< 0.53	U		< 0.27	U		< 0.0053	U		< 0.27	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.29	U		0.0045	J		0.015			< 0.29	U		< 0.59	U		< 0.29	U		< 0.0059	U		< 0.29	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.29	U		0.0028	J		0.0088			< 0.29	U		< 0.58	U		< 0.29	U		< 0.0058	U		< 0.29	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.29	U		0.0301			< 0.0058	U		< 0.29	U		< 0.58	U		< 0.29	U		0.0346			< 0.29	U	

Location	Sample ID	Depth	Sample Date	SVOCs																							
				Nitrobenzene			N-Nitrosodimethylamine			N-Nitrosodi-n-propylamine			N-Nitrosodiphenylamine			p-Chloroaniline			Pentachlorophenol			Phenanthrene			Phenol		
				0.1			0.000007			0.00005			1			0.7			0.03			210			100		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.25	U		< 0.25	U		< 0.25	U		< 0.25	U		< 0.51	U		< 0.51	U		< 0.0051	U		< 0.25	U	
P-57	P57-40-120814	40 ft	12/8/2014	< 0.26	U		< 0.26	U		< 0.26	U		< 0.26	U		< 0.52	U		< 0.52	U		0.469			< 0.26	U	
P-57	P57-50-120814	50 ft	12/8/2014	< 0.27	U		< 0.27	U		< 0.27	U		< 0.27	U		< 0.54	U		< 0.54	U		1.14		J	1.51		J
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.26	U		< 0.26	U		< 0.26	U		< 0.26	U		< 0.52	U		< 0.52	U		0.0026	J		< 0.26	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	< 1.5	U		< 1.5	U		< 1.5	U		< 1.5	U		< 2.9	U		< 2.9	U		1.76			< 1.5	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.58	U		< 0.58	U		0.0014	J		< 0.29	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.27	U		< 0.27	U		< 0.27	U		< 0.27	U		< 0.53	U		< 0.53	U		< 0.0053	U		< 0.27	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.59	U		< 0.59	U		0.0409			0.527		
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.58	U		< 0.58	U		0.0219		J	0.557		
P-93C	P93C-94-120414	94 ft	12/4/2014	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.58	U		< 0.58	U		0.007			< 0.29	U	

SEE LAST PAGE OF TABLE FOR NOTES

APPENDIX B
SUMMARY OF SOIL ANALYTICAL DETECTIONS
P-57, P-92C, and P-93C

Location	Sample ID	Depth	Sample Date	SVOCs					
				Pyrene			Pyridine		
				2300			78		
				Result (mg/kg)	Lab Quals	URS Quals	Result (mg/kg)	Lab Quals	URS Quals
P-57	P57-20-120814	20 ft	12/8/2014	< 0.0051	U		< 0.51	U	
P-57	P57-40-120814	40 ft	12/8/2014	0.0436			< 0.52	U	
P-57	P57-50-120814	50 ft	12/8/2014	0.115			< 0.54	U	
P-92C	P92C-32-120314	32 ft	12/3/2014	< 0.0052	U		< 0.52	U	
P-92C	P92C-50-120314	50 ft	12/3/2014	0.0689			< 2.9	U	
P-92C	P92C-93-120314	93 ft	12/3/2014	< 0.0058	U		< 0.58	U	
P-93C	P93C-40-120414	40 ft	12/4/2014	< 0.0053	U		< 0.53	U	
P-93C	P93C-50-120414	50 ft	12/4/2014	0.0159			< 0.59	U	
P-93C	P93C-50-120414-DUP	50 ft	12/4/2014	0.0107			< 0.58	U	
P-93C	P93C-94-120414	94 ft	12/4/2014	0.0265			< 0.58	U	

Laboratory Qualifiers

< "U" = Not detected at the reporting limit.

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

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

B = Analyte is detected in the method blank.

Note: Library searches for TICs are used to look for the presence of non-target analytes.

TICs reported are those present at levels above ten percent of associated internal standard responses.

URS Qualifiers

J = The result is estimated.

UJ = The result is estimated non-detect.

= Exceedance of residential soil screening criteria, see Notes for criteria source

Notes

1 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table A.

2 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

21563721.02009

SGS Accutest Job Number: MC35540

Sampling Date: 12/03/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 124

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 28, 2016

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

RE: SGS Accutest Job # MC35540

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: MC35540

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC35540-1	12/03/14	12:15	MM	12/04/14	SO	Soil	P92C_32_120314
MC35540-2	12/03/14	12:30	MM	12/04/14	SO	Soil	P92C_50_120314
MC35540-3	12/03/14	14:30	MM	12/04/14	SO	Soil	P92C_93_120314
MC35540-4	12/03/14	07:00	MM	12/04/14	AQ	Trip Blank Water	TB-120314-ST
MC35540-5	12/03/14	07:00	MM	12/04/14	AQ	Trip Blank Water	TB-120314-HCL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC35540

Site: URSMOSTL:Roxana WRR We Rep acement, 900 Centra Avenue, **Report Date** 0/28/20 6 2:08:44 P

3 Samp e(s), 2 Tr p B ank(s) were co ected on 2/03/20 4 and were rece ved at SGS Accutest New Eng and on 2/04/20 4 proper y preserved, at 0 5 Deg C and ntact These Samp es rece ved a job number of MC35540 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 8260C

Matrix: AQ **Batch ID:** MSN3435

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35632- MS, MC35632- 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 Acro e n, Carbon d su f de, V ny Acetate are outs de contro m ts
- MC35632- MS/MSD Recovery(s) for Acetone, Acro e n, V ny Acetate 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
- MC35540-5 for trans- ,2-D ch oroethene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for 4-Methy -2-pentanone (MIBK): Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for , -D ch oroethene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for Acro e n, V ny Acetate: In t a & Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for Ch oromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for Carbon d su f de: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35540-5 for V ny ch or de: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: SO **Batch ID:** MSK2647

- 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) MC35566-2MS, MC35566-2MSD were used as the QC samp es nd cated
- MSK2647-BSD Recovery(s) for Acetone, V ny Acetate, V ny ch or de are outs de contro m ts
- B ank Sp ke Recovery(s) for V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for Acro e n, V ny Acetate 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 V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD of MSK2647-BSD for Acetone: Outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MC35540-2 for Carbon d su f de, V ny Acetate, V ny ch or de: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: SO **Batch ID:** MSM25

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35540- MS, MC35540- 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

Volatiles by GCMS By Method SW846 8260C

Matrix: SO **Batch ID:** MSM25

- B ank Sp ke Recovery(s) for Acro e n, V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,4-D oxane, 2-Ch oroethy v ny ether, Acro e n, Bromoform, V ny Acetate 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 ,4-D oxane, 2-Ch oroethy v ny ether, Acetone, Acro e n, Bromoform, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- 2,2-D ch oropropane, 2-Ch oroethy v ny ether: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP4 28

- 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) MC35568-4MS, MC35568-4MSD were used as the QC samp es nd cated
- In t a ca brat on ver f cat on MSF34 7-ICV34 7 for Hexach orocyc opentad ene exc eed 30% D fference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: SO **Batch ID:** OP4 29

- 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) MC35568-4MS, MC35568-4MSD 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
- Ca brat on standard MSI3446-ICV3427 not assoc ate w th th s job

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 25

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35700- 8MS, MC35700- 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

Matrix: SO **Batch ID:** OP4 83

- 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) MC35568-4MS, MC35568-4MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8015

Matrix:	SO	Batch ID:	GAB4688

- 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) MC35550- MS, MC35550- MSD were used as the QC samp es nd cated
- Ca brat on standard GAB4689-CC4654 not assoc ate w th th s job

Matrix:	SO	Batch ID:	GAB4690

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35568-4MS, MC35568-4MSD 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
- Ca brat on check standard GAB469 -CC4654, f e AB87224A ut zed the same f e as GAB4690-CC4654 does

Wet Chemistry By Method SM 2540G-97 MOD

Matrix:	SO	Batch ID:	GN49335

- Samp e(s) MC35540- DUP were used as the QC samp es for So ds, Percent

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(MC35540)

Summary of Hits

Job Number: MC35540
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/03/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35540-1	P92C_32_120314					
Benzene		0.00059	0.00058	0.00039	mg/kg	SW846 8260C
Ethylbenzene		0.0013 J	0.0023	0.00080	mg/kg	SW846 8260C
Toluene		0.0016 J	0.0058	0.00024	mg/kg	SW846 8260C
Xylene (total)		0.00049 J	0.0023	0.00025	mg/kg	SW846 8260C
Total TIC, Volatile		0.0871 J			mg/kg	
Fluorene		0.0014 J	0.0052	0.0010	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.0026 J	0.0052	0.0011	mg/kg	SW846 8270D BY SIM
MC35540-2	P92C_50_120314					
n-Butylbenzene		7.93	1.3	0.062	mg/kg	SW846 8260C
Ethylbenzene		1.73	0.51	0.18	mg/kg	SW846 8260C
Isopropylbenzene		4.01	1.3	0.043	mg/kg	SW846 8260C
p-Isopropyltoluene		6.61	1.3	0.045	mg/kg	SW846 8260C
Naphthalene		9.63	1.3	0.10	mg/kg	SW846 8260C
n-Propylbenzene		7.22	1.3	0.039	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		53.7	1.3	0.37	mg/kg	SW846 8260C
1,3,5-Trimethylbenzene		16.6	1.3	0.39	mg/kg	SW846 8260C
m,p-Xylene		7.68	0.51	0.11	mg/kg	SW846 8260C
o-Xylene		0.654	0.51	0.073	mg/kg	SW846 8260C
Xylene (total)		8.34	0.51	0.056	mg/kg	SW846 8260C
Total TIC, Volatile		462 J			mg/kg	
Dibenzofuran		1.65	0.59	0.081	mg/kg	SW846 8270D
Acenaphthene		0.668	0.0059	0.0010	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.286	0.0059	0.00089	mg/kg	SW846 8270D BY SIM
Anthracene		0.176	0.0059	0.0013	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0135	0.0059	0.0027	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.0059	0.0059	0.0023	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0042 J	0.0059	0.0026	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0038 J	0.0059	0.0016	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0023 J	0.0059	0.0018	mg/kg	SW846 8270D BY SIM
Chrysene		0.0234	0.0059	0.0016	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0200	0.0059	0.0017	mg/kg	SW846 8270D BY SIM
Fluorene		1.72	0.0059	0.0012	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0015 J	0.0059	0.0015	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		26.4	1.2	0.29	mg/kg	SW846 8270D BY SIM
2-Methylnaphthalene		38.7	1.2	0.29	mg/kg	SW846 8270D BY SIM
Phenanthrene		1.76	0.0059	0.0012	mg/kg	SW846 8270D BY SIM
Pyrene		0.0689	0.0059	0.0018	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		1490	57	8.3	mg/kg	SW846 8015

Summary of Hits

Job Number: MC35540
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/03/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35540-3	**P92C_93_120314**					
Benzene		0.00056	0.00053	0.00036	mg/kg	SW846 8260C
Toluene		0.0010 J	0.0053	0.00022	mg/kg	SW846 8260C
m,p-Xylene		0.00077 J	0.0021	0.00047	mg/kg	SW846 8260C
Xylene (total)		0.00077 J	0.0021	0.00023	mg/kg	SW846 8260C
Total TIC, Volatile		0.1139 J			mg/kg	
Phenanthrene		0.0014 J	0.0058	0.0012	mg/kg	SW846 8270D BY SIM
MC35540-4	**TB-120314-ST**					
No hits reported in this sample.						
MC35540-5	**TB-120314-HCL**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70628.D	1	12/15/14	AMY	n/a	n/a	MSM2511
Run #2							

	Initial Weight	Final Volume
Run #1	4.68 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.012	0.0032	mg/kg	
107-02-8	Acrolein	ND	0.029	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.029	0.0032	mg/kg	
71-43-2	Benzene	0.00059	0.00058	0.00039	mg/kg	
108-86-1	Bromobenzene	ND	0.0058	0.00029	mg/kg	
74-97-5	Bromochloromethane	ND	0.0058	0.00040	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	0.00024	mg/kg	
75-25-2	Bromoform	ND	0.0023	0.00041	mg/kg	
74-83-9	Bromomethane	ND	0.0023	0.00069	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.012	0.0035	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0058	0.00028	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0058	0.00086	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0058	0.00024	mg/kg	
75-15-0	Carbon disulfide	ND	0.0058	0.00015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	0.00025	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	0.00018	mg/kg	
75-00-3	Chloroethane	ND	0.0058	0.00087	mg/kg	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	0.0058	0.0014	mg/kg	
67-66-3	Chloroform	ND	0.0023	0.00020	mg/kg	
74-87-3	Chloromethane	ND	0.0058	0.00065	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0058	0.00022	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0058	0.00031	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	0.00037	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0023	0.00024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0023	0.00035	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0023	0.00040	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0023	0.00093	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0023	0.00031	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0023	0.00037	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0023	0.00048	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0023	0.00052	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0023	0.00048	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0023	0.00048	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0058	0.00038	mg/kg	
594-20-7	2,2-Dichloropropane [a]	ND	0.0058	0.00065	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0058	0.00030	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	0.00026	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	0.00030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.029	0.023	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0058	0.00041	mg/kg	
100-41-4	Ethylbenzene	0.0013	0.0023	0.00080	mg/kg	J
87-68-3	Hexachlorobutadiene	ND	0.0058	0.00066	mg/kg	
591-78-6	2-Hexanone	ND	0.012	0.00087	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0058	0.00019	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0058	0.00020	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0023	0.00021	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0058	0.00062	mg/kg	
74-95-3	Methylene bromide	ND	0.0058	0.00053	mg/kg	
75-09-2	Methylene chloride	ND	0.0023	0.00061	mg/kg	
91-20-3	Naphthalene	ND	0.0058	0.00046	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0058	0.00018	mg/kg	
100-42-5	Styrene	ND	0.0058	0.00020	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0058	0.00046	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	0.00045	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	0.00036	mg/kg	
108-88-3	Toluene	0.0016	0.0058	0.00024	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0058	0.00049	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0058	0.00059	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	0.00025	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	0.00066	mg/kg	
79-01-6	Trichloroethene	ND	0.0023	0.00028	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0023	0.00046	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0058	0.00033	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0058	0.0017	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0058	0.0018	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0058	0.0018	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	0.0010	mg/kg	
	m,p-Xylene	ND	0.0023	0.00051	mg/kg	
95-47-6	o-Xylene	ND	0.0023	0.00033	mg/kg	
1330-20-7	Xylene (total)	0.00049	0.0023	0.00025	mg/kg	J

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

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.06	.045	mg/kg	JN
109-66-0	Pentane	6.47	.005	mg/kg	JN
75-83-2	Butane, 2,2-dimethyl-	7.19	.0049	mg/kg	JN
79-29-8	Butane, 2,3-dimethyl-	7.79	.01	mg/kg	JN
96-14-0	Pentane, 3-methyl-	8.14	.016	mg/kg	JN
108-08-7	Pentane, 2,4-dimethyl-	9.11	.0062	mg/kg	JN
	Total TIC, Volatile		.0871	mg/kg	J

(a) Continuing Calibration 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:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78615.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.52	0.064	mg/kg	
95-57-8	2-Chlorophenol	ND	0.26	0.012	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.52	0.013	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.52	0.015	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.52	0.084	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.52	0.064	mg/kg	
95-48-7	2-Methylphenol	ND	0.52	0.020	mg/kg	
	3&4-Methylphenol	ND	0.52	0.025	mg/kg	
88-75-5	2-Nitrophenol	ND	0.52	0.014	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.097	mg/kg	
87-86-5	Pentachlorophenol	ND	0.52	0.036	mg/kg	
108-95-2	Phenol	ND	0.26	0.015	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.52	0.013	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.52	0.013	mg/kg	
62-53-3	Aniline	ND	0.52	0.026	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	0.011	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.52	0.026	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	0.014	mg/kg	
106-47-8	4-Chloroaniline	ND	0.52	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	0.012	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	0.019	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	0.016	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.26	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.52	0.034	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.52	0.013	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	0.026	mg/kg	
132-64-9	Dibenzofuran	ND	0.10	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	0.027	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	0.0081	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.26	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	0.015	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.26	0.0095	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.52	0.13	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	0.012	mg/kg	
78-59-1	Isophorone	ND	0.26	0.012	mg/kg	
88-74-4	2-Nitroaniline	ND	0.52	0.013	mg/kg	
99-09-2	3-Nitroaniline	ND	0.52	0.028	mg/kg	
100-01-6	4-Nitroaniline	ND	0.52	0.013	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	0.014	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.26	0.012	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	0.015	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	0.016	mg/kg	
110-86-1	Pyridine	ND	0.52	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		30-130%
4165-62-2	Phenol-d5	96%		30-130%
118-79-6	2,4,6-Tribromophenol	96%		30-130%
4165-60-0	Nitrobenzene-d5	91%		30-130%
321-60-8	2-Fluorobiphenyl	87%		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	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93323.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0052	0.00089	mg/kg	
208-96-8	Acenaphthylene	ND	0.0052	0.00078	mg/kg	
120-12-7	Anthracene	ND	0.0052	0.0011	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0052	0.0024	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0052	0.0021	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0052	0.0023	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0052	0.0014	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0052	0.0016	mg/kg	
218-01-9	Chrysene	ND	0.0052	0.0014	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0052	0.0015	mg/kg	
206-44-0	Fluoranthene	ND	0.0052	0.0015	mg/kg	
86-73-7	Fluorene	0.0014	0.0052	0.0010	mg/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0052	0.0013	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.10	0.026	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.10	0.026	mg/kg	
85-01-8	Phenanthrene	0.0026	0.0052	0.0011	mg/kg	J
129-00-0	Pyrene	ND	0.0052	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	103%		30-130%
321-60-8	2-Fluorobiphenyl	100%		30-130%
1718-51-0	Terphenyl-d14	105%		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:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61307.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0027	0.00079	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0027	0.00066	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	144%		61-167%
460-00-4	Bromofluorobenzene (S)	119%		61-167%

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

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

Report of Analysis

Client Sample ID:	P92C_32_120314		
Lab Sample ID:	MC35540-1	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8015	**Percent Solids:**	92.6
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87215.D	1	12/08/14	AF	n/a	n/a	GAB4690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.3 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.6	0.83	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		50-130%

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:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K84284.D	1	12/08/14	JM	n/a	n/a	MSK2647
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.0 g	10.0 ml	25.0 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2.6	0.72	mg/kg	
107-02-8	Acrolein	ND	6.4	2.3	mg/kg	
107-13-1	Acrylonitrile	ND	6.4	0.70	mg/kg	
71-43-2	Benzene	ND	0.13	0.086	mg/kg	
108-86-1	Bromobenzene	ND	1.3	0.064	mg/kg	
74-97-5	Bromochloromethane	ND	1.3	0.088	mg/kg	
75-27-4	Bromodichloromethane	ND	0.51	0.054	mg/kg	
75-25-2	Bromoform	ND	0.51	0.091	mg/kg	
74-83-9	Bromomethane	ND	0.51	0.15	mg/kg	
78-93-3	2-Butanone (MEK)	ND	2.6	0.79	mg/kg	
104-51-8	n-Butylbenzene	7.93	1.3	0.062	mg/kg	
135-98-8	sec-Butylbenzene	ND	1.3	0.19	mg/kg	
98-06-6	tert-Butylbenzene	ND	1.3	0.054	mg/kg	
75-15-0	Carbon disulfide [a]	ND	1.3	0.034	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.51	0.056	mg/kg	
108-90-7	Chlorobenzene	ND	0.51	0.040	mg/kg	
75-00-3	Chloroethane	ND	1.3	0.19	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1.3	0.32	mg/kg	
67-66-3	Chloroform	ND	0.51	0.043	mg/kg	
74-87-3	Chloromethane	ND	1.3	0.14	mg/kg	
95-49-8	o-Chlorotoluene	ND	1.3	0.049	mg/kg	
106-43-4	p-Chlorotoluene	ND	1.3	0.068	mg/kg	
124-48-1	Dibromochloromethane	ND	0.51	0.083	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.51	0.054	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.51	0.078	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.51	0.089	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.51	0.21	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.51	0.068	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.51	0.082	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.51	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.51	0.12	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.51	0.11	mg/kg	

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

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

Report of Analysis

Client Sample ID:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.51	0.11	mg/kg	
142-28-9	1,3-Dichloropropane	ND	1.3	0.084	mg/kg	
594-20-7	2,2-Dichloropropane	ND	1.3	0.14	mg/kg	
563-58-6	1,1-Dichloropropene	ND	1.3	0.068	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.51	0.058	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.067	mg/kg	
123-91-1	1,4-Dioxane	ND	6.4	5.1	mg/kg	
97-63-2	Ethyl methacrylate	ND	1.3	0.091	mg/kg	
100-41-4	Ethylbenzene	1.73	0.51	0.18	mg/kg	
87-68-3	Hexachlorobutadiene	ND	1.3	0.15	mg/kg	
591-78-6	2-Hexanone	ND	2.6	0.19	mg/kg	
98-82-8	Isopropylbenzene	4.01	1.3	0.043	mg/kg	
99-87-6	p-Isopropyltoluene	6.61	1.3	0.045	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.51	0.047	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1.3	0.14	mg/kg	
74-95-3	Methylene bromide	ND	1.3	0.12	mg/kg	
75-09-2	Methylene chloride	ND	0.51	0.14	mg/kg	
91-20-3	Naphthalene	9.63	1.3	0.10	mg/kg	
103-65-1	n-Propylbenzene	7.22	1.3	0.039	mg/kg	
100-42-5	Styrene	ND	1.3	0.044	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	0.10	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.51	0.10	mg/kg	
127-18-4	Tetrachloroethene	ND	0.51	0.080	mg/kg	
108-88-3	Toluene	ND	1.3	0.053	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	1.3	0.11	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.13	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.51	0.056	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.51	0.15	mg/kg	
79-01-6	Trichloroethene	ND	0.51	0.063	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.51	0.10	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	1.3	0.074	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	53.7	1.3	0.37	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	16.6	1.3	0.39	mg/kg	
108-05-4	Vinyl Acetate [a]	ND	1.3	0.39	mg/kg	
75-01-4	Vinyl chloride [a]	ND	0.51	0.23	mg/kg	
	m,p-Xylene	7.68	0.51	0.11	mg/kg	
95-47-6	o-Xylene	0.654	0.51	0.073	mg/kg	
1330-20-7	Xylene (total)	8.34	0.51	0.056	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	123%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
107-83-5	Pentane, 2-methyl-	7.32	26	mg/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	15.62	60	mg/kg	JN
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	16.30	41	mg/kg	JN
	Unknown Benzene	16.43	37	mg/kg	JN
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	16.81	37	mg/kg	JN
95-93-2	Benzene, 1,2,4,5-tetramethyl-	16.85	53	mg/kg	JN
7525-62-4	Benzene, 1-ethenyl-3-ethyl-	17.28	35	mg/kg	JN
577-16-2	Ethanone, 1-(2-methylphenyl)-	17.30	59	mg/kg	JN
16608-68-7	2-Butene, 3-chloro-1-phenyl-, (Z)-	17.77	41	mg/kg	JN
91-57-6	Naphthalene, 2-methyl-	19.24	73	mg/kg	JN
	Total TIC, Volatile		462	mg/kg	J

(a) Continuing Calibration 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:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78654.D	5	12/11/14	KD	12/05/14	OP41128	MSF3431
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	2.9	0.37	mg/kg	
95-57-8	2-Chlorophenol	ND	1.5	0.066	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2.9	0.074	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	2.9	0.085	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	2.9	0.48	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	5.9	0.73	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2.9	0.37	mg/kg	
95-48-7	2-Methylphenol	ND	2.9	0.12	mg/kg	
	3&4-Methylphenol	ND	2.9	0.14	mg/kg	
88-75-5	2-Nitrophenol	ND	2.9	0.078	mg/kg	
100-02-7	4-Nitrophenol	ND	5.9	0.55	mg/kg	
87-86-5	Pentachlorophenol	ND	2.9	0.21	mg/kg	
108-95-2	Phenol	ND	1.5	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2.9	0.073	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2.9	0.072	mg/kg	
62-53-3	Aniline	ND	2.9	0.15	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1.5	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	1.5	0.060	mg/kg	
100-51-6	Benzyl Alcohol	ND	2.9	0.15	mg/kg	
91-58-7	2-Chloronaphthalene	ND	1.5	0.080	mg/kg	
106-47-8	4-Chloroaniline	ND	2.9	0.073	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1.5	0.069	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1.5	0.089	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1.5	0.11	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1.5	0.090	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	1.5	0.066	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	2.9	0.20	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	2.9	0.073	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1.5	0.15	mg/kg	
132-64-9	Dibenzofuran	1.65	0.59	0.081	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	1.5	0.16	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	1.5	0.046	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	1.5	0.073	mg/kg	
131-11-3	Dimethyl phthalate	ND	1.5	0.085	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1.5	0.054	mg/kg	
118-74-1	Hexachlorobenzene	ND	1.5	0.092	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2.9	0.73	mg/kg	
67-72-1	Hexachloroethane	ND	1.5	0.071	mg/kg	
78-59-1	Isophorone	ND	1.5	0.068	mg/kg	
88-74-4	2-Nitroaniline	ND	2.9	0.073	mg/kg	
99-09-2	3-Nitroaniline	ND	2.9	0.16	mg/kg	
100-01-6	4-Nitroaniline	ND	2.9	0.073	mg/kg	
98-95-3	Nitrobenzene	ND	1.5	0.079	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	1.5	0.070	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1.5	0.084	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1.5	0.089	mg/kg	
110-86-1	Pyridine	ND	2.9	0.15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%		30-130%
4165-62-2	Phenol-d5	77%		30-130%
118-79-6	2,4,6-Tribromophenol	80%		30-130%
4165-60-0	Nitrobenzene-d5	129%		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	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93324.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2	I93339.D	10	12/09/14	MR	12/05/14	OP41129	MSI3480

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2	20.4 g	1.0 ml

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.668	0.0059	0.0010	mg/kg	
208-96-8	Acenaphthylene	0.286	0.0059	0.00089	mg/kg	
120-12-7	Anthracene	0.176	0.0059	0.0013	mg/kg	
56-55-3	Benzo(a)anthracene	0.0135	0.0059	0.0027	mg/kg	
50-32-8	Benzo(a)pyrene	0.0059	0.0059	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0042	0.0059	0.0026	mg/kg	J
191-24-2	Benzo(g,h,i)perylene	0.0038	0.0059	0.0016	mg/kg	J
207-08-9	Benzo(k)fluoranthene	0.0023	0.0059	0.0018	mg/kg	J
218-01-9	Chrysene	0.0234	0.0059	0.0016	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0059	0.0017	mg/kg	
206-44-0	Fluoranthene	0.0200	0.0059	0.0017	mg/kg	
86-73-7	Fluorene	1.72	0.0059	0.0012	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0015	0.0059	0.0015	mg/kg	J
90-12-0	1-Methylnaphthalene	26.4 [a]	1.2	0.29	mg/kg	
91-57-6	2-Methylnaphthalene	38.7 [a]	1.2	0.29	mg/kg	
85-01-8	Phenanthrene	1.76	0.0059	0.0012	mg/kg	
129-00-0	Pyrene	0.0689	0.0059	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	128%	127%	30-130%
321-60-8	2-Fluorobiphenyl	73%	96%	30-130%
1718-51-0	Terphenyl-d14	92%	98%	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:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61308.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0029	0.00085	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0029	0.00071	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	131%		61-167%
460-00-4	Bromofluorobenzene (S)	120%		61-167%

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

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

Report of Analysis

Client Sample ID:	P92C_50_120314		
Lab Sample ID:	MC35540-2	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8015	**Percent Solids:**	83.5
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87195.D	1	12/05/14	AF	n/a	n/a	GAB4688
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.79 g	10.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	1490	57	8.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		50-130%

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:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70629.D	1	12/15/14	AMY	n/a	n/a	MSM2511
Run #2							

	Initial Weight	Final Volume
Run #1	5.44 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.011	0.0030	mg/kg	
107-02-8	Acrolein	ND	0.027	0.0094	mg/kg	
107-13-1	Acrylonitrile	ND	0.027	0.0029	mg/kg	
71-43-2	Benzene	0.00056	0.00053	0.00036	mg/kg	
108-86-1	Bromobenzene	ND	0.0053	0.00027	mg/kg	
74-97-5	Bromochloromethane	ND	0.0053	0.00037	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0021	0.00022	mg/kg	
75-25-2	Bromoform	ND	0.0021	0.00038	mg/kg	
74-83-9	Bromomethane	ND	0.0021	0.00064	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	0.0033	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0053	0.00026	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0053	0.00080	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0053	0.00022	mg/kg	
75-15-0	Carbon disulfide	ND	0.0053	0.00014	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0021	0.00023	mg/kg	
108-90-7	Chlorobenzene	ND	0.0021	0.00017	mg/kg	
75-00-3	Chloroethane	ND	0.0053	0.00081	mg/kg	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	0.0053	0.0013	mg/kg	
67-66-3	Chloroform	ND	0.0021	0.00018	mg/kg	
74-87-3	Chloromethane	ND	0.0053	0.00060	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0053	0.00020	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0053	0.00028	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0021	0.00034	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0021	0.00023	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0021	0.00032	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0021	0.00037	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0021	0.00086	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0021	0.00028	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0021	0.00034	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0021	0.00044	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0021	0.00048	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0021	0.00045	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0021	0.00045	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0053	0.00035	mg/kg	
594-20-7	2,2-Dichloropropane [a]	ND	0.0053	0.00060	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0053	0.00028	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0021	0.00024	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0021	0.00028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.027	0.021	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0053	0.00038	mg/kg	
100-41-4	Ethylbenzene	ND	0.0021	0.00073	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0053	0.00061	mg/kg	
591-78-6	2-Hexanone	ND	0.011	0.00081	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0053	0.00018	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0053	0.00019	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0021	0.00019	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0053	0.00058	mg/kg	
74-95-3	Methylene bromide	ND	0.0053	0.00049	mg/kg	
75-09-2	Methylene chloride	ND	0.0021	0.00057	mg/kg	
91-20-3	Naphthalene	ND	0.0053	0.00042	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0053	0.00016	mg/kg	
100-42-5	Styrene	ND	0.0053	0.00018	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0053	0.00043	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0021	0.00042	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0021	0.00033	mg/kg	
108-88-3	Toluene	0.0010	0.0053	0.00022	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0053	0.00046	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0053	0.00055	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0021	0.00023	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0021	0.00061	mg/kg	
79-01-6	Trichloroethene	ND	0.0021	0.00026	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0021	0.00042	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0053	0.00031	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0053	0.0015	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0053	0.0016	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0053	0.0016	mg/kg	
75-01-4	Vinyl chloride	ND	0.0021	0.00097	mg/kg	
	m,p-Xylene	0.00077	0.0021	0.00047	mg/kg	J
95-47-6	o-Xylene	ND	0.0021	0.00030	mg/kg	
1330-20-7	Xylene (total)	0.00077	0.0021	0.00023	mg/kg	J

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

Report of Analysis

Client Sample ID:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	97%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.05	.04	mg/kg	JN
109-66-0	Pentane	6.47	.006	mg/kg	JN
107-83-5	Pentane, 2-methyl-	7.82	.014	mg/kg	JN
96-14-0	Pentane, 3-methyl-	8.14	.0073	mg/kg	JN
108-08-7	Pentane, 2,4-dimethyl-	9.12	.0059	mg/kg	JN
110-82-7	Cyclohexane	9.91	.0086	mg/kg	JN
590-73-8	Hexane, 2,2-dimethyl-	10.41	.012	mg/kg	JN
108-87-2	Cyclohexane, methyl-	11.17	.013	mg/kg	JN
560-21-4	Pentane, 2,3,3-trimethyl-	11.77	.0071	mg/kg	JN
	Total TIC, Volatile		.1139	mg/kg	J

(a) Continuing Calibration 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:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78617.D	1	12/11/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.58	0.072	mg/kg	
95-57-8	2-Chlorophenol	ND	0.29	0.013	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.58	0.015	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.58	0.017	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.58	0.094	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.58	0.072	mg/kg	
95-48-7	2-Methylphenol	ND	0.58	0.023	mg/kg	
	3&4-Methylphenol	ND	0.58	0.028	mg/kg	
88-75-5	2-Nitrophenol	ND	0.58	0.015	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.58	0.041	mg/kg	
108-95-2	Phenol	ND	0.29	0.016	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.58	0.014	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.58	0.014	mg/kg	
62-53-3	Aniline	ND	0.58	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	0.012	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.58	0.029	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.58	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	0.018	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	0.021	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	0.018	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.58	0.038	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.58	0.014	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	0.029	mg/kg	
132-64-9	Dibenzofuran	ND	0.12	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	0.031	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	0.0090	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.29	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	0.017	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	0.011	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.58	0.14	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	0.014	mg/kg	
78-59-1	Isophorone	ND	0.29	0.013	mg/kg	
88-74-4	2-Nitroaniline	ND	0.58	0.014	mg/kg	
99-09-2	3-Nitroaniline	ND	0.58	0.032	mg/kg	
100-01-6	4-Nitroaniline	ND	0.58	0.014	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	0.016	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	0.016	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	0.017	mg/kg	
110-86-1	Pyridine	ND	0.58	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	93%		30-130%
4165-62-2	Phenol-d5	96%		30-130%
118-79-6	2,4,6-Tribromophenol	100%		30-130%
4165-60-0	Nitrobenzene-d5	102%		30-130%
321-60-8	2-Fluorobiphenyl	88%		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	mg/kg	

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

Report of Analysis

Client Sample ID:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93325.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0058	0.0010	mg/kg	
208-96-8	Acenaphthylene	ND	0.0058	0.00088	mg/kg	
120-12-7	Anthracene	ND	0.0058	0.0013	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0058	0.0027	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0058	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0058	0.0025	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0058	0.0016	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0058	0.0018	mg/kg	
218-01-9	Chrysene	ND	0.0058	0.0016	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0058	0.0017	mg/kg	
206-44-0	Fluoranthene	ND	0.0058	0.0017	mg/kg	
86-73-7	Fluorene	ND	0.0058	0.0011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0058	0.0014	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.12	0.029	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.12	0.029	mg/kg	
85-01-8	Phenanthrene	0.0014	0.0058	0.0012	mg/kg	J
129-00-0	Pyrene	ND	0.0058	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	103%		30-130%
321-60-8	2-Fluorobiphenyl	102%		30-130%
1718-51-0	Terphenyl-d14	107%		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:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61309.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0029	0.00085	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0029	0.00071	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	152%		61-167%
460-00-4	Bromofluorobenzene (S)	130%		61-167%

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

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

Report of Analysis

Client Sample ID:	P92C_93_120314		
Lab Sample ID:	MC35540-3	**Date Sampled:**	12/03/14
Matrix:	SO - Soil	**Date Received:**	12/04/14
Method:	SW846 8015	**Percent Solids:**	86.2
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87198.D	1	12/05/14	AF	n/a	n/a	GAB4688
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.46 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	11	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	93%		50-130%

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:	TB-120314-ST		
Lab Sample ID:	MC35540-4	**Date Sampled:**	12/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/04/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ92500.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	84%		36-173%
460-00-4	Bromofluorobenzene (S)	91%		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-120314-HCL		
Lab Sample ID:	MC35540-5	**Date Sampled:**	12/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N93013.D	1	12/10/14	JB	n/a	n/a	MSN3435
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [b]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [b]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [b]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [b]	ND	1.0	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:	TB-120314-HCL		
Lab Sample ID:	MC35540-5	**Date Sampled:**	12/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIB [b]	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate [a]	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [b]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-120314-HCL		
Lab Sample ID:	MC35540-5	**Date Sampled:**	12/03/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/04/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

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

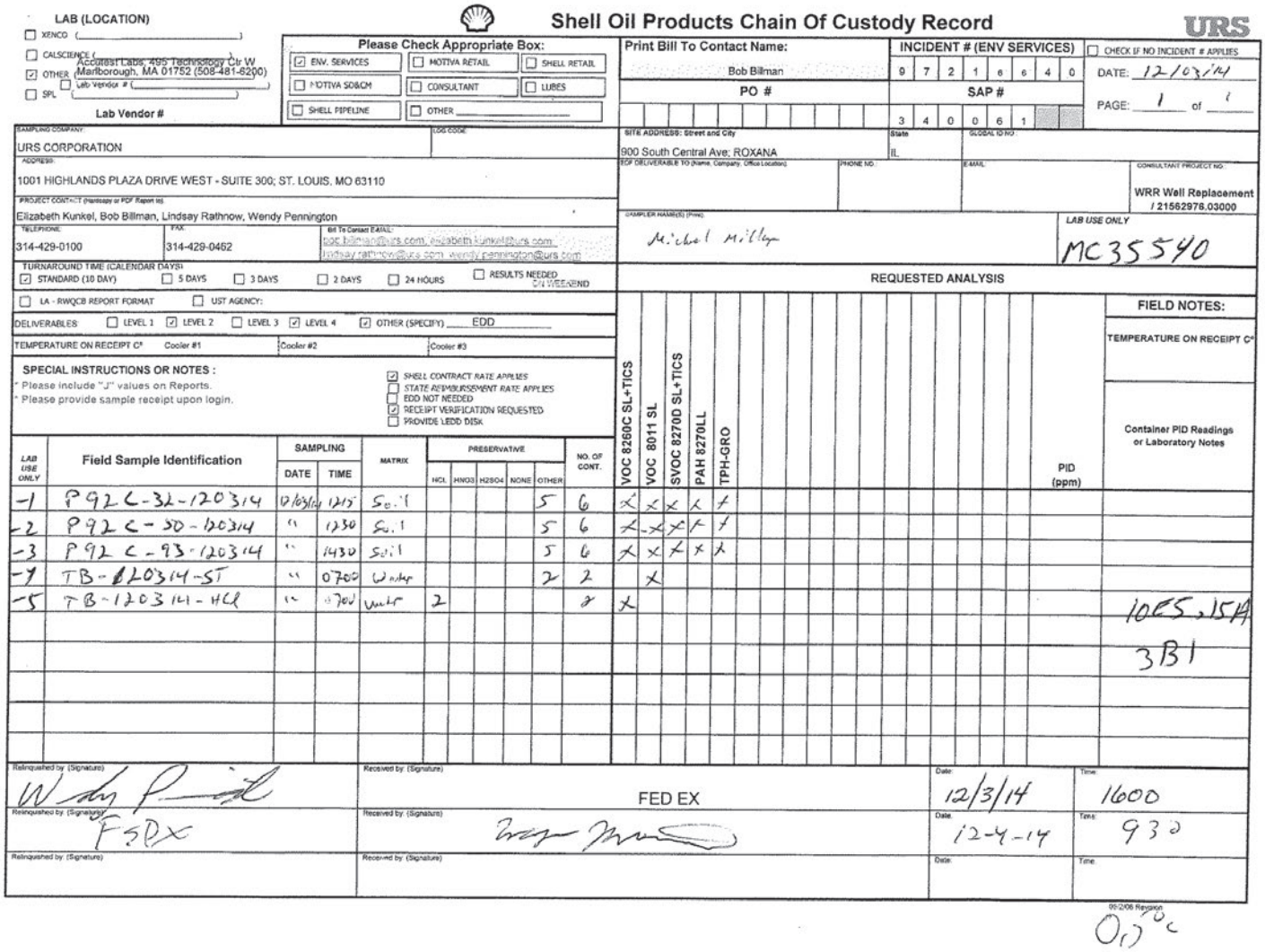
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [ ] XENCO ( )
- [ ] CALSCIENCE ( )
- [x] OTHER Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
- [ ] Lab Vendor # ( )
- [ ] SPL

Lab Vendor #

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SO&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: 12/03/14

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

TOP DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: WRR Well Replacement / 21562976.03000

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow, Wendy Pennington

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com, elizabeth.kunkel@urs.com, lindsay.rathnow@urs.com, wendy.pennington@urs.com

SAMPLER NAME(S) (Print): Michael Millage

LAB USE ONLY: MC35540

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (10 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [x] LEVEL 4 [x] 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.

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] 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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	TPH-GRO	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P92C-32-120314	12/03/14	1215	Soil					5	6	X	X	X	X	X		
-2	P92C-50-120314	"	1230	Soil					5	6	X	X	X	X	X		
-3	P92C-93-120314	"	1430	Soil					5	6	X	X	X	X	X		
-4	TB-120314-ST	"	0700	Water					2	2		X					
-5	TB-120314-HCl	"	0700	Water	2					2	X						10E5.15A
																	3B1

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FED EX	12/3/14	1600
FSDX	[signature]	12-4-14	930

05/2/06 Revision

0.7°C

MC35540: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC35540 **Client:** URS **Project:** SHELL

Date / Time Received: 12/4/2014 9 30 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 5/0 5)

Cooler Security	Y	or	N		Y	or	N
1 Custody Seals Present	☑		☐	3 COC Present	☑		☐
2 Custody Seals ntact	☑		☐	4 Smpl Dates/ ime OK	☑		☐

Cooler Temperature	Y	or	N
1 emp criteria achieved	☑		☐
2 hermometer D	G1		
3 Cooler media	ce (Bag)		
4 No Coolers	1		

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

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 H	☑		☐
2 All containers accounted or	☑		☐
3 Condition o sample	ntact		

Sample Integrity - Instructions	Y	or	N	N/A
1 Analysis requested is clear	☑		☐	
2 Bottles received or unspeci ied tests	☐		☑	
3 Su icient volume recvd or analysis	☑		☐	
4 Compositing instructions clear	☐		☐	☑
5 Filtering instructions clear	☐		☐	☑

Comments

Accutest Laboratories
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Internal Sample Tracking Chronicle

Shell Oil

Job No: MC35540

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35540-1 Collected: 03-DEC-14 12:15 By: MM			Received: 04-DEC-14 By:			
P92C_32_120314						
MC35540-1	SM 2540G-97 MOD	05-DEC-14	HS			%SOL
MC35540-1	SW846 8015	08-DEC-14 15:03	AF			V8015GRO
MC35540-1	SW846 8270D BY SIM	08-DEC-14 15:12	MR	05-DEC-14	PA	B8270SIMSL
MC35540-1	SW846 8270D	10-DEC-14 23:17	KD	05-DEC-14	PA	AB8270SL+
MC35540-1	SW846 8011	11-DEC-14 16:41	NK	10-DEC-14	AZ	V8011SL
MC35540-1	SW846 8260C	15-DEC-14 11:04	AMY			V8260SL+
MC35540-2 Collected: 03-DEC-14 12:30 By: MM			Received: 04-DEC-14 By:			
P92C_50_120314						
MC35540-2	SM 2540G-97 MOD	05-DEC-14	HS			%SOL
MC35540-2	SW846 8015	05-DEC-14 14:16	AF			V8015GRO
MC35540-2	SW846 8270D BY SIM	08-DEC-14 15:36	MR	05-DEC-14	PA	B8270SIMSL
MC35540-2	SW846 8260C	08-DEC-14 22:14	JM			V8260SL+
MC35540-2	SW846 8270D BY SIM	09-DEC-14 11:05	MR	05-DEC-14	PA	B8270SIMSL
MC35540-2	SW846 8011	11-DEC-14 17:03	NK	10-DEC-14	AZ	V8011SL
MC35540-2	SW846 8270D	11-DEC-14 17:58	KD	05-DEC-14	PA	AB8270SL+
MC35540-3 Collected: 03-DEC-14 14:30 By: MM			Received: 04-DEC-14 By:			
P92C_93_120314						
MC35540-3	SM 2540G-97 MOD	05-DEC-14	HS			%SOL
MC35540-3	SW846 8015	05-DEC-14 16:08	AF			V8015GRO
MC35540-3	SW846 8270D BY SIM	08-DEC-14 15:59	MR	05-DEC-14	PA	B8270SIMSL
MC35540-3	SW846 8270D	11-DEC-14 00:04	KD	05-DEC-14	PA	AB8270SL+
MC35540-3	SW846 8011	11-DEC-14 17:25	NK	10-DEC-14	AZ	V8011SL
MC35540-3	SW846 8260C	15-DEC-14 11:34	AMY			V8260SL+
MC35540-4 Collected: 03-DEC-14 07:00 By: MM			Received: 04-DEC-14 By:			
TB-120314-ST						
MC35540-4	SW846 8011	15-DEC-14 19:28	NK	15-DEC-14	MT	V8011SL
MC35540-5 Collected: 03-DEC-14 07:00 By: MM			Received: 04-DEC-14 By:			
TB-120314-HCL						
MC35540-5	SW846 8260C	10-DEC-14 14:25	JB			V8260SL

SGS Accutest Internal Chain of Custody

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/04/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35540-1.1	Walk In Ref #9	Hamid Siamak	12/05/14 09:04	Retrieve from Storage
MC35540-1.1	Hamid Siamak	Walk In Ref #9	12/05/14 10:34	Return to Storage
MC35540-1.1	Walk In Ref #9	Aysia Wood	12/05/14 14:28	Retrieve from Storage
MC35540-1.1	Aysia Wood	Walk In Ref #9	12/05/14 22:38	Return to Storage
MC35540-1.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35540-1.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35540-1.1	Walk In Ref #9	Amy Min Yang	12/15/14 12:53	Retrieve from Storage
MC35540-1.1	Amy Min Yang	Walk In Ref #9	12/15/14 12:54	Return to Storage
MC35540-1.1	Scott Parsick		02/05/15 11:22	Disposed
MC35540-1.2	VOC Ref #10	Anthony Franciosa	12/05/14 07:43	Retrieve from Storage
MC35540-1.2	Anthony Franciosa	GCAB	12/05/14 07:43	Load on Instrument
MC35540-1.2	GCAB	Anthony Franciosa	12/08/14 09:03	Unload from Instrument
MC35540-1.2	Anthony Franciosa	VOC Ref #10	12/08/14 09:04	Return to Storage
MC35540-1.2	VOC Ref #10	Anthony Franciosa	12/08/14 09:05	Retrieve from Storage
MC35540-1.2	Anthony Franciosa	GCAB	12/08/14 09:05	Load on Instrument
MC35540-1.2	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35540-1.2	Anthony Franciosa	VOC Ref #10	12/09/14 08:10	Return to Storage
MC35540-1.2	Scott Parsick		02/05/15 11:22	Disposed
MC35540-1.4	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35540-1.4	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35540-1.4	Scott Parsick		02/05/15 11:22	Disposed
MC35540-1.5	VOC Ref #10	Amy Min Yang	12/15/14 10:08	Retrieve from Storage
MC35540-1.5	Amy Min Yang	GCMSM	12/15/14 10:08	Load on Instrument
MC35540-1.5	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35540-1.5	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35540-1.5	Scott Parsick		02/05/15 11:22	Disposed
MC35540-2.1	Walk In Ref #9	Hamid Siamak	12/05/14 09:04	Retrieve from Storage
MC35540-2.1	Hamid Siamak	Walk In Ref #9	12/05/14 10:34	Return to Storage
MC35540-2.1	Walk In Ref #9	Aysia Wood	12/05/14 14:28	Retrieve from Storage
MC35540-2.1	Aysia Wood	Walk In Ref #9	12/05/14 22:38	Return to Storage
MC35540-2.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35540-2.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35540-2.1	Scott Parsick		02/05/15 11:22	Disposed
MC35540-2.2	VOC Ref #10	Anthony Franciosa	12/05/14 07:43	Retrieve from Storage
MC35540-2.2	Anthony Franciosa	GCAB	12/05/14 07:43	Load on Instrument
MC35540-2.2	GCAB	Anthony Franciosa	12/08/14 09:03	Unload from Instrument
MC35540-2.2	Anthony Franciosa	VOC Ref #10	12/08/14 09:04	Return to Storage
MC35540-2.2	Scott Parsick		02/05/15 11:22	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/04/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35540-2.4	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35540-2.4	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35540-2.4	VOC Ref #10	Jaime Maslowski	12/08/14 11:26	Retrieve from Storage
MC35540-2.4	Jaime Maslowski	VOC Ref #10	12/10/14 08:54	Return to Storage
MC35540-2.4	Scott Parsick		02/05/15 11:22	Disposed
MC35540-3.1	Walk In Ref #9	Hamid Siamak	12/05/14 09:04	Retrieve from Storage
MC35540-3.1	Hamid Siamak	Walk In Ref #9	12/05/14 10:34	Return to Storage
MC35540-3.1	Walk In Ref #9	Aysia Wood	12/05/14 14:28	Retrieve from Storage
MC35540-3.1	Aysia Wood	Walk In Ref #9	12/05/14 22:38	Return to Storage
MC35540-3.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35540-3.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35540-3.1	Scott Parsick		02/05/15 11:22	Disposed
MC35540-3.2	VOC Ref #10	Anthony Franciosa	12/05/14 07:43	Retrieve from Storage
MC35540-3.2	Anthony Franciosa	GCAB	12/05/14 07:43	Load on Instrument
MC35540-3.2	GCAB	Anthony Franciosa	12/08/14 09:03	Unload from Instrument
MC35540-3.2	Anthony Franciosa	VOC Ref #10	12/08/14 09:04	Return to Storage
MC35540-3.2	Scott Parsick		02/05/15 11:22	Disposed
MC35540-3.4	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35540-3.4	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35540-3.4	Scott Parsick		02/05/15 11:22	Disposed
MC35540-3.6	VOC Ref #10	Amy Min Yang	12/15/14 10:08	Retrieve from Storage
MC35540-3.6	Amy Min Yang	GCMSM	12/15/14 10:08	Load on Instrument
MC35540-3.6	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35540-3.6	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35540-3.6	Scott Parsick		02/05/15 11:22	Disposed
MC35540-4.1	VOC Ref #3	Anthony Franciosa	12/05/14 07:44	Retrieve from Storage
MC35540-4.1	Anthony Franciosa	GCAB	12/05/14 07:44	Load on Instrument
MC35540-4.1	GCAB	Anthony Franciosa	12/05/14 08:39	Unload from Instrument
MC35540-4.1	Anthony Franciosa	VOC Ref #3	12/05/14 08:39	Return to Storage
MC35540-4.1	VOC Ref #3	Marc Tahtamoni	12/15/14 14:04	Retrieve from Storage
MC35540-4.1	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35540-4.2	VOC Ref #3	Marc Tahtamoni	12/11/14 19:28	Retrieve from Storage
MC35540-4.2	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35540-5.2	VOC Ref #3	Jaclyn Bergeron	12/10/14 09:24	Retrieve from Storage
MC35540-5.2	Jaclyn Bergeron	GCMSN	12/10/14 09:24	Load on Instrument
MC35540-5.2	GCMSN	Jaclyn Bergeron	12/11/14 09:44	Unload from Instrument
MC35540-5.2	Jaclyn Bergeron	VOC Ref #3	12/11/14 09:44	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/04/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35540-5.2	Scott Parsick		02/05/15 11:22	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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	140	ug/kg	
107-02-8	Acrolein	ND	1300	440	ug/kg	
107-13-1	Acrylonitrile	ND	1300	140	ug/kg	
71-43-2	Benzene	ND	25	17	ug/kg	
108-86-1	Bromobenzene	ND	250	13	ug/kg	
74-97-5	Bromochloromethane	ND	250	17	ug/kg	
75-27-4	Bromodichloromethane	ND	100	10	ug/kg	
75-25-2	Bromoform	ND	100	18	ug/kg	
74-83-9	Bromomethane	ND	100	30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	150	ug/kg	
104-51-8	n-Butylbenzene	ND	250	12	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	37	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	11	ug/kg	
75-15-0	Carbon disulfide	ND	250	6.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	11	ug/kg	
108-90-7	Chlorobenzene	ND	100	7.9	ug/kg	
75-00-3	Chloroethane	ND	250	38	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/kg	
67-66-3	Chloroform	ND	100	8.5	ug/kg	
74-87-3	Chloromethane	ND	250	28	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	9.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	13	ug/kg	
124-48-1	Dibromochloromethane	ND	100	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	100	11	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	100	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	100	17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	100	40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	100	13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	100	21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	100	23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	100	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	16	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	28	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	13	ug/kg	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	100	11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	100	13	ug/kg	
123-91-1	1,4-Dioxane	ND	1300	1000	ug/kg	
97-63-2	Ethyl methacrylate	ND	250	18	ug/kg	
100-41-4	Ethylbenzene	ND	100	34	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	29	ug/kg	
591-78-6	2-Hexanone	ND	500	38	ug/kg	
98-82-8	Isopropylbenzene	ND	250	8.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	8.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	9.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	27	ug/kg	
74-95-3	Methylene bromide	ND	250	23	ug/kg	
75-09-2	Methylene chloride	ND	100	27	ug/kg	
91-20-3	Naphthalene	ND	250	20	ug/kg	
103-65-1	n-Propylbenzene	ND	250	7.6	ug/kg	
100-42-5	Styrene	ND	250	8.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/kg	
127-18-4	Tetrachloroethene	ND	100	16	ug/kg	
108-88-3	Toluene	ND	250	10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	29	ug/kg	
79-01-6	Trichloroethene	ND	100	12	ug/kg	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	14	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	76	ug/kg	
108-05-4	Vinyl Acetate	ND	250	77	ug/kg	
75-01-4	Vinyl chloride	ND	100	45	ug/kg	
	m,p-Xylene	ND	100	22	ug/kg	
95-47-6	o-Xylene	ND	100	14	ug/kg	
1330-20-7	Xylene (total)	ND	100	11	ug/kg	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	122%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

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

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-MB	N93005.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-MB	N93005.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	0.50	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-MB	N93005.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

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

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-MB	M70627.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/kg	
107-02-8	Acrolein	ND	25	8.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	2.7	ug/kg	
71-43-2	Benzene	ND	0.50	0.34	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.21	ug/kg	
75-25-2	Bromoform	ND	2.0	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.24	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.75	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.76	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/kg	
67-66-3	Chloroform	ND	2.0	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.56	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.19	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.27	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.81	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.33	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.56	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.26	ug/kg	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-MB	M70627.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.26	ug/kg	
123-91-1	1,4-Dioxane	ND	25	20	ug/kg	
97-63-2	Ethyl methacrylate	ND	5.0	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.69	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.57	ug/kg	
591-78-6	2-Hexanone	ND	10	0.76	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.54	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.40	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.15	ug/kg	
100-42-5	Styrene	ND	5.0	0.17	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.31	ug/kg	
108-88-3	Toluene	ND	5.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.57	ug/kg	
79-01-6	Trichloroethene	ND	2.0	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.29	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.91	ug/kg	
	m,p-Xylene	ND	2.0	0.44	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.22	ug/kg	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-MB	M70627.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	97%	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/kg	

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-BS	N93002.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.2	84	70-130
107-02-8	Acrolein	250	110	44* [a]	70-130
107-13-1	Acrylonitrile	50	40.5	81	70-130
71-43-2	Benzene	50	41.0	82	70-130
108-86-1	Bromobenzene	50	42.3	85	70-130
74-97-5	Bromochloromethane	50	47.0	94	70-130
75-27-4	Bromodichloromethane	50	47.7	95	70-130
75-25-2	Bromoform	50	58.4	117	70-130
74-83-9	Bromomethane	50	40.6	81	70-130
78-93-3	2-Butanone (MEK)	50	43.5	87	70-130
104-51-8	n-Butylbenzene	50	50.4	101	70-130
135-98-8	sec-Butylbenzene	50	45.7	91	70-130
98-06-6	tert-Butylbenzene	50	43.3	87	70-130
75-15-0	Carbon disulfide	50	31.5	63* [a]	70-130
56-23-5	Carbon tetrachloride	50	45.3	91	70-130
108-90-7	Chlorobenzene	50	45.6	91	70-130
75-00-3	Chloroethane	50	53.0	106	70-130
110-75-8	2-Chloroethyl vinyl ether	50	43.5	87	70-130
67-66-3	Chloroform	50	44.4	89	70-130
74-87-3	Chloromethane	50	39.7	79	70-130
95-49-8	o-Chlorotoluene	50	42.9	86	70-130
106-43-4	p-Chlorotoluene	50	42.5	85	70-130
124-48-1	Dibromochloromethane	50	53.2	106	70-130
95-50-1	1,2-Dichlorobenzene	50	46.0	92	70-130
541-73-1	1,3-Dichlorobenzene	50	45.2	90	70-130
106-46-7	1,4-Dichlorobenzene	50	46.2	92	70-130
75-71-8	Dichlorodifluoromethane	50	51.7	103	70-130
75-34-3	1,1-Dichloroethane	50	41.6	83	70-130
107-06-2	1,2-Dichloroethane	50	40.6	81	70-130
75-35-4	1,1-Dichloroethene	50	36.9	74	70-130
156-59-2	cis-1,2-Dichloroethene	50	40.6	81	70-130
156-60-5	trans-1,2-Dichloroethene	50	39.7	79	70-130
78-87-5	1,2-Dichloropropane	50	43.9	88	70-130
142-28-9	1,3-Dichloropropane	50	43.9	88	70-130
594-20-7	2,2-Dichloropropane	50	41.4	83	70-130
563-58-6	1,1-Dichloropropene	50	42.8	86	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-BS	N93002.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	45.0	90	70-130
10061-02-6	trans-1,3-Dichloropropene	50	46.5	93	70-130
123-91-1	1,4-Dioxane	250	244	98	70-130
97-63-2	Ethyl methacrylate	50	47.3	95	77-137
100-41-4	Ethylbenzene	50	45.4	91	70-130
87-68-3	Hexachlorobutadiene	50	48.1	96	70-130
591-78-6	2-Hexanone	50	43.5	87	70-130
98-82-8	Isopropylbenzene	50	43.0	86	70-130
99-87-6	p-Isopropyltoluene	50	47.2	94	70-130
1634-04-4	Methyl Tert Butyl Ether	50	41.1	82	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	39.8	80	70-130
74-95-3	Methylene bromide	50	44.5	89	70-130
75-09-2	Methylene chloride	50	40.0	80	70-130
91-20-3	Naphthalene	50	53.7	107	70-130
103-65-1	n-Propylbenzene	50	44.8	90	70-130
100-42-5	Styrene	50	49.5	99	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	50.0	100	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	47.5	95	70-130
127-18-4	Tetrachloroethene	50	47.1	94	70-130
108-88-3	Toluene	50	43.3	87	70-130
87-61-6	1,2,3-Trichlorobenzene	50	41.2	82	70-130
120-82-1	1,2,4-Trichlorobenzene	50	48.3	97	70-130
71-55-6	1,1,1-Trichloroethane	50	43.4	87	70-130
79-00-5	1,1,2-Trichloroethane	50	46.1	92	70-130
79-01-6	Trichloroethene	50	43.6	87	70-130
75-69-4	Trichlorofluoromethane	50	46.4	93	70-130
96-18-4	1,2,3-Trichloropropane	50	44.7	89	70-130
95-63-6	1,2,4-Trimethylbenzene	50	45.1	90	70-130
108-67-8	1,3,5-Trimethylbenzene	50	42.6	85	70-130
108-05-4	Vinyl Acetate	50	24.4	49* [a]	70-130
75-01-4	Vinyl chloride	50	39.2	78	70-130
	m,p-Xylene	100	93.4	93	70-130
95-47-6	o-Xylene	50	46.9	94	70-130
1330-20-7	Xylene (total)	150	140	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3435-BS	N93002.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	92%	70-130%

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-BS	M70624.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	54.6	109	70-130
107-02-8	Acrolein	250	159	64* [a]	70-130
107-13-1	Acrylonitrile	50	48.5	97	70-130
71-43-2	Benzene	50	46.1	92	70-130
108-86-1	Bromobenzene	50	50.5	101	70-130
74-97-5	Bromochloromethane	50	51.7	103	70-130
75-27-4	Bromodichloromethane	50	48.1	96	70-130
75-25-2	Bromoform	50	62.6	125	70-130
74-83-9	Bromomethane	50	45.2	90	70-130
78-93-3	2-Butanone (MEK)	50	43.0	86	70-130
104-51-8	n-Butylbenzene	50	46.1	92	70-130
135-98-8	sec-Butylbenzene	50	46.8	94	70-130
98-06-6	tert-Butylbenzene	50	44.4	89	70-130
75-15-0	Carbon disulfide	50	46.5	93	70-130
56-23-5	Carbon tetrachloride	50	43.8	88	70-130
108-90-7	Chlorobenzene	50	53.4	107	70-130
75-00-3	Chloroethane	50	52.6	105	70-130
110-75-8	2-Chloroethyl vinyl ether	50	44.7	89	10-160
67-66-3	Chloroform	50	45.5	91	70-130
74-87-3	Chloromethane	50	44.1	88	70-130
95-49-8	o-Chlorotoluene	50	46.2	92	70-130
106-43-4	p-Chlorotoluene	50	45.1	90	70-130
124-48-1	Dibromochloromethane	50	57.5	115	70-130
95-50-1	1,2-Dichlorobenzene	50	52.8	106	70-130
541-73-1	1,3-Dichlorobenzene	50	50.4	101	70-130
106-46-7	1,4-Dichlorobenzene	50	50.0	100	70-130
75-71-8	Dichlorodifluoromethane	50	43.5	87	70-130
75-34-3	1,1-Dichloroethane	50	46.8	94	70-130
107-06-2	1,2-Dichloroethane	50	45.5	91	70-130
75-35-4	1,1-Dichloroethene	50	49.5	99	70-130
156-59-2	cis-1,2-Dichloroethene	50	49.7	99	70-130
156-60-5	trans-1,2-Dichloroethene	50	50.0	100	70-130
78-87-5	1,2-Dichloropropane	50	49.0	98	70-130
142-28-9	1,3-Dichloropropane	50	52.4	105	70-130
594-20-7	2,2-Dichloropropane	50	39.2	78	70-130
563-58-6	1,1-Dichloropropene	50	46.6	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-BS	M70624.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.8	98	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	274	110	70-130
97-63-2	Ethyl methacrylate	50	43.0	86	76-141
100-41-4	Ethylbenzene	50	48.7	97	70-130
87-68-3	Hexachlorobutadiene	50	52.9	106	70-130
591-78-6	2-Hexanone	50	45.8	92	70-130
98-82-8	Isopropylbenzene	50	45.6	91	70-130
99-87-6	p-Isopropyltoluene	50	46.7	93	70-130
1634-04-4	Methyl Tert Butyl Ether	50	45.4	91	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	46.4	93	70-130
74-95-3	Methylene bromide	50	51.2	102	70-130
75-09-2	Methylene chloride	50	47.5	95	70-130
91-20-3	Naphthalene	50	63.2	126	70-130
103-65-1	n-Propylbenzene	50	46.1	92	70-130
100-42-5	Styrene	50	53.1	106	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	54.9	110	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	52.0	104	70-130
127-18-4	Tetrachloroethene	50	52.0	104	70-130
108-88-3	Toluene	50	46.8	94	70-130
87-61-6	1,2,3-Trichlorobenzene	50	57.9	116	70-130
120-82-1	1,2,4-Trichlorobenzene	50	56.3	113	70-130
71-55-6	1,1,1-Trichloroethane	50	43.2	86	70-130
79-00-5	1,1,2-Trichloroethane	50	49.6	99	70-130
79-01-6	Trichloroethene	50	48.9	98	70-130
75-69-4	Trichlorofluoromethane	50	43.8	88	70-130
96-18-4	1,2,3-Trichloropropane	50	49.7	99	70-130
95-63-6	1,2,4-Trimethylbenzene	50	46.6	93	70-130
108-67-8	1,3,5-Trimethylbenzene	50	44.4	89	70-130
108-05-4	Vinyl Acetate	50	27.0	54* [a]	70-130
75-01-4	Vinyl chloride	50	45.5	91	70-130
	m,p-Xylene	100	101	101	70-130
95-47-6	o-Xylene	50	51.4	103	70-130
1330-20-7	Xylene (total)	150	153	102	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2511-BS	M70624.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2500	2220	89	3390	136* [a]	42* [a]	70-130/20
107-02-8	Acrolein	12500	10200	82	10900	87	7	70-130/20
107-13-1	Acrylonitrile	2500	2340	94	2360	94	1	70-130/20
71-43-2	Benzene	2500	2240	90	2320	93	4	70-130/20
108-86-1	Bromobenzene	2500	2450	98	2640	106	7	70-130/20
74-97-5	Bromochloromethane	2500	2300	92	2430	97	5	70-130/20
75-27-4	Bromodichloromethane	2500	2680	107	2780	111	4	70-130/20
75-25-2	Bromoform	2500	2660	106	2820	113	6	70-130/20
74-83-9	Bromomethane	2500	2220	89	2310	92	4	70-130/20
78-93-3	2-Butanone (MEK)	2500	2710	108	3040	122	11	70-130/20
104-51-8	n-Butylbenzene	2500	2510	100	2660	106	6	70-130/20
135-98-8	sec-Butylbenzene	2500	2560	102	2710	108	6	70-130/20
98-06-6	tert-Butylbenzene	2500	2650	106	2810	112	6	70-130/20
75-15-0	Carbon disulfide	2500	1850	74	1960	78	6	70-130/20
56-23-5	Carbon tetrachloride	2500	2310	92	2440	98	5	70-130/20
108-90-7	Chlorobenzene	2500	2440	98	2580	103	6	70-130/20
75-00-3	Chloroethane	2500	2620	105	2510	100	4	70-130/20
110-75-8	2-Chloroethyl vinyl ether	2500	2560	102	2700	108	5	10-160/20
67-66-3	Chloroform	2500	2270	91	2430	97	7	70-130/20
74-87-3	Chloromethane	2500	2300	92	2380	95	3	70-130/20
95-49-8	o-Chlorotoluene	2500	2420	97	2590	104	7	70-130/20
106-43-4	p-Chlorotoluene	2500	2390	96	2530	101	6	70-130/20
124-48-1	Dibromochloromethane	2500	2630	105	2830	113	7	70-130/20
95-50-1	1,2-Dichlorobenzene	2500	2410	96	2590	104	7	70-130/20
541-73-1	1,3-Dichlorobenzene	2500	2320	93	2460	98	6	70-130/20
106-46-7	1,4-Dichlorobenzene	2500	2290	92	2450	98	7	70-130/20
75-71-8	Dichlorodifluoromethane	2500	2300	92	2370	95	3	70-130/20
75-34-3	1,1-Dichloroethane	2500	2310	92	2420	97	5	70-130/20
107-06-2	1,2-Dichloroethane	2500	2400	96	2510	100	4	70-130/20
75-35-4	1,1-Dichloroethene	2500	2080	83	2220	89	7	70-130/20
156-59-2	cis-1,2-Dichloroethene	2500	2160	86	2280	91	5	70-130/20
156-60-5	trans-1,2-Dichloroethene	2500	2160	86	2280	91	5	70-130/20
78-87-5	1,2-Dichloropropane	2500	2390	96	2460	98	3	70-130/20
142-28-9	1,3-Dichloropropane	2500	2490	100	2640	106	6	70-130/20
594-20-7	2,2-Dichloropropane	2500	2320	93	2330	93	0	70-130/20
563-58-6	1,1-Dichloropropene	2500	2450	98	2560	102	4	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	2500	2590	104	2660	106	3	70-130/20
10061-02-6	trans-1,3-Dichloropropene	2500	2780	111	2830	113	2	70-130/20
123-91-1	1,4-Dioxane	12500	13800	110	15600	125	12	70-130/20
97-63-2	Ethyl methacrylate	2500	2490	100	2560	102	3	76-141/20
100-41-4	Ethylbenzene	2500	2350	94	2480	99	5	70-130/20
87-68-3	Hexachlorobutadiene	2500	2740	110	2860	114	4	70-130/20
591-78-6	2-Hexanone	2500	2710	108	3000	120	10	70-130/20
98-82-8	Isopropylbenzene	2500	2480	99	2710	108	9	70-130/20
99-87-6	p-Isopropyltoluene	2500	2510	100	2680	107	7	70-130/20
1634-04-4	Methyl Tert Butyl Ether	2500	2080	83	2190	88	5	70-130/20
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2450	98	2580	103	5	70-130/20
74-95-3	Methylene bromide	2500	2470	99	2560	102	4	70-130/20
75-09-2	Methylene chloride	2500	2170	87	2260	90	4	70-130/20
91-20-3	Naphthalene	2500	2820	113	3010	120	7	70-130/20
103-65-1	n-Propylbenzene	2500	2500	100	2670	107	7	70-130/20
100-42-5	Styrene	2500	2610	104	2700	108	3	70-130/20
630-20-6	1,1,1,2-Tetrachloroethane	2500	2670	107	2800	112	5	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	2500	2450	98	2620	105	7	70-130/20
127-18-4	Tetrachloroethene	2500	2480	99	2630	105	6	70-130/20
108-88-3	Toluene	2500	2370	95	2440	98	3	70-130/20
87-61-6	1,2,3-Trichlorobenzene	2500	2630	105	2800	112	6	70-130/20
120-82-1	1,2,4-Trichlorobenzene	2500	2530	101	2720	109	7	70-130/20
71-55-6	1,1,1-Trichloroethane	2500	2260	90	2380	95	5	70-130/20
79-00-5	1,1,2-Trichloroethane	2500	2500	100	2570	103	3	70-130/20
79-01-6	Trichloroethene	2500	2430	97	2600	104	7	70-130/20
75-69-4	Trichlorofluoromethane	2500	2200	88	2250	90	2	70-130/20
96-18-4	1,2,3-Trichloropropane	2500	2510	100	2670	107	6	70-130/20
95-63-6	1,2,4-Trimethylbenzene	2500	2490	100	2640	106	6	70-130/20
108-67-8	1,3,5-Trimethylbenzene	2500	2500	100	2690	108	7	70-130/20
108-05-4	Vinyl Acetate	2500	1500	60* [a]	1590	64* [a]	6	70-130/20
75-01-4	Vinyl chloride	2500	1980	79	1700	68* [a]	15	70-130/20
	m,p-Xylene	5000	4800	96	4990	100	4	70-130/20
95-47-6	o-Xylene	2500	2390	96	2470	99	3	70-130/20
1330-20-7	Xylene (total)	7500	7190	96	7460	99	4	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	109%	70-130%
2037-26-5	Toluene-D8	108%	109%	70-130%
460-00-4	4-Bromofluorobenzene	103%	107%	70-130%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	MC35566-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6550	5030	77	6550	5020	77	0	70-130/30
107-02-8	Acrolein	ND		32700	22300	68* [a]	32700	23900	73	7	70-130/30
107-13-1	Acrylonitrile	ND		6550	5400	82	6550	5850	89	8	70-130/30
71-43-2	Benzene	ND		6550	5730	88	6550	5800	89	1	70-130/30
108-86-1	Bromobenzene	ND		6550	6490	99	6550	6470	99	0	70-130/30
74-97-5	Bromochloromethane	ND		6550	6210	95	6550	6160	94	1	70-130/30
75-27-4	Bromodichloromethane	ND		6550	7790	119	6550	7620	116	2	70-130/30
75-25-2	Bromoform	ND		6550	7070	108	6550	7020	107	1	70-130/30
74-83-9	Bromomethane	ND		6550	7060	108	6550	7150	109	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		6550	6840	104	6550	6490	99	5	70-130/30
104-51-8	n-Butylbenzene	ND		6550	6790	104	6550	6970	106	3	70-130/30
135-98-8	sec-Butylbenzene	ND		6550	6730	103	6550	7050	108	5	70-130/30
98-06-6	tert-Butylbenzene	ND		6550	7240	111	6550	7660	117	6	70-130/30
75-15-0	Carbon disulfide	ND		6550	4920	75	6550	5040	77	2	70-130/30
56-23-5	Carbon tetrachloride	ND		6550	7410	113	6550	7380	113	0	70-130/30
108-90-7	Chlorobenzene	ND		6550	6320	97	6550	6280	96	1	70-130/30
75-00-3	Chloroethane	ND		6550	7050	108	6550	6920	106	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		6550	6200	95	6550	6220	95	0	10-160/30
67-66-3	Chloroform	ND		6550	6790	104	6550	6820	104	0	70-130/30
74-87-3	Chloromethane	ND		6550	6630	101	6550	6970	106	5	70-130/30
95-49-8	o-Chlorotoluene	ND		6550	6600	101	6550	6720	103	2	70-130/30
106-43-4	p-Chlorotoluene	ND		6550	6470	99	6550	6550	100	1	70-130/30
124-48-1	Dibromochloromethane	ND		6550	7060	108	6550	7230	110	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		6550	6400	98	6550	6600	101	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		6550	6230	95	6550	6330	97	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		6550	6130	94	6550	6260	96	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		6550	8440	129	6550	7270	111	15	70-130/30
75-34-3	1,1-Dichloroethane	ND		6550	6240	95	6550	6430	98	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		6550	7110	109	6550	7150	109	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		6550	5600	86	6550	5650	86	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		6550	5660	86	6550	5900	90	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		6550	5590	85	6550	5710	87	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		6550	6000	92	6550	6210	95	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		6550	6180	94	6550	6250	95	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		6550	7190	110	6550	7130	109	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		6550	6730	103	6550	6780	104	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Compound	MC35566-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		6550	6890	105	6550	6750	103	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		6550	7440	114	6550	7380	113	1	70-130/30
123-91-1	1,4-Dioxane	ND		32700	31000	95	32700	32300	99	4	70-130/30
97-63-2	Ethyl methacrylate	ND		6550	6480	99	6550	6230	95	4	41-160/30
100-41-4	Ethylbenzene	ND		6550	6260	96	6550	6340	97	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		6550	7470	114	6550	7860	120	5	70-130/30
591-78-6	2-Hexanone	ND		6550	6220	95	6550	5870	90	6	70-130/30
98-82-8	Isopropylbenzene	ND		6550	6730	103	6550	7010	107	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		6550	6820	104	6550	7100	108	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		6550	5820	89	6550	5970	91	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		6550	6280	96	6550	6140	94	2	70-130/30
74-95-3	Methylene bromide	ND		6550	6660	102	6550	6750	103	1	70-130/30
75-09-2	Methylene chloride	ND		6550	5600	86	6550	5810	89	4	70-130/30
91-20-3	Naphthalene	ND		6550	6950	106	6550	7620	116	9	70-130/30
103-65-1	n-Propylbenzene	ND		6550	6720	103	6550	6880	105	2	70-130/30
100-42-5	Styrene	ND		6550	6700	102	6550	6640	101	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		6550	7410	113	6550	7560	115	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		6550	5960	91	6550	6120	93	3	70-130/30
127-18-4	Tetrachloroethene	ND		6550	6390	98	6550	6650	102	4	70-130/30
108-88-3	Toluene	ND		6550	6280	96	6550	6170	94	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		6550	6560	100	6550	7240	111	10	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		6550	6650	102	6550	7040	108	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		6550	7170	110	6550	7100	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		6550	6350	97	6550	6320	97	0	70-130/30
79-01-6	Trichloroethene	1530		6550	8580	108	6550	8720	110	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		6550	7400	113	6550	7070	108	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		6550	6360	97	6550	6330	97	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		6550	6790	104	6550	7030	107	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		6550	6800	104	6550	7090	108	4	70-130/30
108-05-4	Vinyl Acetate	ND		6550	2510	38* [a]	6550	2540	39* [a]	1	70-130/30
75-01-4	Vinyl chloride	ND		6550	8380	128	6550	6550	100	25	70-130/30
	m,p-Xylene	ND		13100	12600	96	13100	12600	96	0	70-130/30
95-47-6	o-Xylene	ND		6550	6260	96	6550	6360	97	2	70-130/30
1330-20-7	Xylene (total)	ND		19600	18800	96	19600	18900	96	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35540-2

CAS No.	Surrogate Recoveries	MS	MSD	MC35566-2	Limits
1868-53-7	Dibromofluoromethane	118%	119%	124%	70-130%
2037-26-5	Toluene-D8	112%	112%	107%	70-130%
460-00-4	4-Bromofluorobenzene	109%	110%	107%	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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35632-1MS	N93010.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1MSD	N93011.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1	N93008.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	MC35632-1 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	133	53* a	250	111	44* a	18	70-130/30
107-02-8	Acrolein	ND		1250	560	45* a	1250	528	42* a	6	70-130/30
107-13-1	Acrylonitrile	ND		250	217	87	250	206	82	5	70-130/30
71-43-2	Benzene	ND		250	214	86	250	217	87	1	70-130/30
108-86-1	Bromobenzene	ND		250	219	88	250	222	89	1	70-130/30
74-97-5	Bromochloromethane	ND		250	248	99	250	247	99	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	249	100	250	250	100	0	70-130/30
75-25-2	Bromoform	ND		250	292	117	250	285	114	2	70-130/30
74-83-9	Bromomethane	ND		250	193	77	250	221	88	14	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	196	78	250	187	75	5	70-130/30
104-51-8	n-Butylbenzene	ND		250	258	103	250	258	103	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	232	93	250	233	93	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	219	88	250	220	88	0	70-130/30
75-15-0	Carbon disulfide	ND		250	186	74	250	187	75	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	234	94	250	236	94	1	70-130/30
108-90-7	Chlorobenzene	ND		250	228	91	250	231	92	1	70-130/30
75-00-3	Chloroethane	ND		250	259	104	250	258	103	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	228	91	250	230	92	1	70-130/30
67-66-3	Chloroform	ND		250	233	93	250	234	94	0	70-130/30
74-87-3	Chloromethane	ND		250	188	75	250	204	82	8	70-130/30
95-49-8	o-Chlorotoluene	ND		250	220	88	250	222	89	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	219	88	250	220	88	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	262	105	250	262	105	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	239	96	250	243	97	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	232	93	250	234	94	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	236	94	250	239	96	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	242	97	250	248	99	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	219	88	250	217	87	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	216	86	250	214	86	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	198	79	250	198	79	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	2.4		250	217	86	250	218	86	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	206	82	250	207	83	0	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	230	92	250	232	93	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	222	89	250	219	88	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	223	89	250	217	87	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	222	89	250	223	89	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35632-1MS	N93010.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1MSD	N93011.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1	N93008.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Compound	MC35632-1 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	239	96	250	241	96	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	256	102	250	250	100	2	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1280	102	1250	1210	97	6	70-130/30
97-63-2	Ethyl methacrylate	ND		250	250	100	250	244	98	2	72-139/30
100-41-4	Ethylbenzene	ND		250	227	91	250	227	91	0	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	249	100	250	247	99	1	70-130/30
591-78-6	2-Hexanone	ND		250	192	77	250	179	72	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	219	88	250	219	88	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	242	97	250	241	96	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	227	91	250	216	86	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	210	84	250	197	79	6	70-130/30
74-95-3	Methylene bromide	ND		250	242	97	250	240	96	1	70-130/30
75-09-2	Methylene chloride	ND		250	212	85	250	215	86	1	70-130/30
91-20-3	Naphthalene	ND		250	271	108	250	277	111	2	70-130/30
103-65-1	n-Propylbenzene	ND		250	232	93	250	231	92	0	70-130/30
100-42-5	Styrene	ND		250	247	99	250	249	100	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	246	98	250	248	99	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	246	98	250	235	94	5	70-130/30
127-18-4	Tetrachloroethene	ND		250	236	94	250	238	95	1	70-130/30
108-88-3	Toluene	ND		250	230	92	250	231	92	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	214	86	250	214	86	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	250	100	250	253	101	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	226	90	250	225	90	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	242	97	250	237	95	2	70-130/30
79-01-6	Trichloroethene	46.7		250	259	85	250	262	86	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	224	90	250	223	89	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	237	95	250	222	89	7	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	233	93	250	234	94	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	221	88	250	221	88	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	131	52* [a]	250	125	50* [a]	5	70-130/30
75-01-4	Vinyl chloride	ND		250	179	72	250	187	75	4	70-130/30
	m,p-Xylene	ND		500	467	93	500	470	94	1	70-130/30
95-47-6	o-Xylene	ND		250	234	94	250	236	94	1	70-130/30
1330-20-7	Xylene (total)	ND		750	701	93	750	707	94	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35632-1MS	N93010.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1MSD	N93011.D	5	12/10/14	JB	n/a	n/a	MSN3435
MC35632-1	N93008.D	1	12/10/14	JB	n/a	n/a	MSN3435

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

MC35540-5

CAS No.	Surrogate Recoveries	MS	MSD	MC35632-1	Limits
1868-53-7	Dibromofluoromethane	101%	103%	98%	70-130%
2037-26-5	Toluene-D8	100%	99%	97%	70-130%
460-00-4	4-Bromofluorobenzene	92%	91%	105%	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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35540-1MS	M70635.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1MSD	M70636.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1	M70628.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	MC35540-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		58.6	41.0	70	59.7	39.9	67* a	3	70-130/30
107-02-8	Acrolein	ND		293	92.1	31* a	299	102	34* a	10	70-130/30
107-13-1	Acrylonitrile	ND		58.6	66.7	114	59.7	65.2	109	2	70-130/30
71-43-2	Benzene	0.59		58.6	56.0	95	59.7	53.8	89	4	70-130/30
108-86-1	Bromobenzene	ND		58.6	57.5	98	59.7	56.3	94	2	70-130/30
74-97-5	Bromochloromethane	ND		58.6	63.7	109	59.7	62.1	104	3	70-130/30
75-27-4	Bromodichloromethane	ND		58.6	58.2	99	59.7	55.5	93	5	70-130/30
75-25-2	Bromoform	ND		58.6	81.8	140* a	59.7	79.0	132* a	3	70-130/30
74-83-9	Bromomethane	ND		58.6	44.4	76	59.7	45.3	76	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		58.6	50.8	87	59.7	43.7	73	15	70-130/30
104-51-8	n-Butylbenzene	ND		58.6	51.4	88	59.7	49.3	83	4	70-130/30
135-98-8	sec-Butylbenzene	ND		58.6	53.7	92	59.7	52.0	87	3	70-130/30
98-06-6	tert-Butylbenzene	ND		58.6	50.7	87	59.7	49.1	82	3	70-130/30
75-15-0	Carbon disulfide	ND		58.6	56.5	96	59.7	53.8	90	5	70-130/30
56-23-5	Carbon tetrachloride	ND		58.6	55.5	95	59.7	52.0	87	7	70-130/30
108-90-7	Chlorobenzene	ND		58.6	61.9	106	59.7	59.5	100	4	70-130/30
75-00-3	Chloroethane	ND		58.6	53.3	91	59.7	54.9	92	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		58.6	4.8	8* a	59.7	4.7	8* a	2	10-160/30
67-66-3	Chloroform	ND		58.6	55.1	94	59.7	52.7	88	4	70-130/30
74-87-3	Chloromethane	ND		58.6	43.4	74	59.7	44.5	75	3	70-130/30
95-49-8	o-Chlorotoluene	ND		58.6	50.8	87	59.7	49.8	83	2	70-130/30
106-43-4	p-Chlorotoluene	ND		58.6	51.2	87	59.7	48.6	81	5	70-130/30
124-48-1	Dibromochloromethane	ND		58.6	70.0	120	59.7	67.6	113	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		58.6	58.5	100	59.7	54.7	92	7	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		58.6	55.4	95	59.7	52.2	87	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		58.6	54.2	93	59.7	51.9	87	4	70-130/30
75-71-8	Dichlorodifluoromethane	ND		58.6	41.4	71	59.7	43.3	72	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		58.6	57.5	98	59.7	55.5	93	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		58.6	56.2	96	59.7	53.5	90	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		58.6	62.0	106	59.7	60.1	101	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		58.6	60.0	102	59.7	57.0	95	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		58.6	60.9	104	59.7	58.8	98	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		58.6	60.0	102	59.7	57.7	97	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		58.6	65.2	111	59.7	64.3	108	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		58.6	49.0	84	59.7	46.5	78	5	70-130/30
563-58-6	1,1-Dichloropropene	ND		58.6	58.2	99	59.7	56.2	94	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35540-1MS	M70635.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1MSD	M70636.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1	M70628.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Compound	MC35540-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		58.6	59.1	101	59.7	57.5	96	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		58.6	61.8	106	59.7	59.9	100	3	70-130/30
123-91-1	1,4-Dioxane	ND		293	398	136* [a]	299	394	132* [a]	1	70-130/30
97-63-2	Ethyl methacrylate	ND		58.6	61.7	105	59.7	58.9	99	5	41-160/30
100-41-4	Ethylbenzene	1.3	J	58.6	58.8	98	59.7	56.5	92	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		58.6	54.4	93	59.7	49.0	82	10	70-130/30
591-78-6	2-Hexanone	ND		58.6	51.5	88	59.7	50.1	84	3	70-130/30
98-82-8	Isopropylbenzene	ND		58.6	53.0	91	59.7	51.4	86	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		58.6	52.8	90	59.7	50.6	85	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		58.6	59.7	102	59.7	56.8	95	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		58.6	72.8	124	59.7	67.6	113	7	70-130/30
74-95-3	Methylene bromide	ND		58.6	66.0	113	59.7	62.3	104	6	70-130/30
75-09-2	Methylene chloride	ND		58.6	58.7	100	59.7	55.6	93	5	70-130/30
91-20-3	Naphthalene	ND		58.6	76.2	130	59.7	70.4	118	8	70-130/30
103-65-1	n-Propylbenzene	ND		58.6	53.0	91	59.7	51.8	87	2	70-130/30
100-42-5	Styrene	ND		58.6	60.3	103	59.7	57.8	97	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		58.6	64.8	111	59.7	61.6	103	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		58.6	68.3	117	59.7	65.9	110	4	70-130/30
127-18-4	Tetrachloroethene	ND		58.6	63.3	108	59.7	61.8	103	2	70-130/30
108-88-3	Toluene	1.6	J	58.6	59.0	98	59.7	55.7	91	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		58.6	57.0	97	59.7	49.9	84	13	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		58.6	54.3	93	59.7	48.1	81	12	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		58.6	54.0	92	59.7	51.6	86	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		58.6	64.9	111	59.7	62.2	104	4	70-130/30
79-01-6	Trichloroethene	ND		58.6	61.1	104	59.7	59.6	100	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		58.6	42.4	72	59.7	45.3	76	7	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		58.6	68.3	117	59.7	65.2	109	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		58.6	52.1	89	59.7	49.8	83	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		58.6	50.4	86	59.7	48.1	81	5	70-130/30
108-05-4	Vinyl Acetate	ND		58.6	32.4	55* [a]	59.7	27.6	46* [a]	16	70-130/30
75-01-4	Vinyl chloride	ND		58.6	44.3	76	59.7	46.0	77	4	70-130/30
	m,p-Xylene	ND		117	120	102	119	116	97	3	70-130/30
95-47-6	o-Xylene	ND		58.6	60.9	104	59.7	58.6	98	4	70-130/30
1330-20-7	Xylene (total)	0.49	J	176	181	103	179	175	97	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35540-1MS	M70635.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1MSD	M70636.D	1	12/15/14	AMY	n/a	n/a	MSM2511
MC35540-1	M70628.D	1	12/15/14	AMY	n/a	n/a	MSM2511

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

MC35540-1, MC35540-3

CAS No.	Surrogate Recoveries	MS	MSD	MC35540-1	Limits
1868-53-7	Dibromofluoromethane	106%	106%	107%	70-130%
2037-26-5	Toluene-D8	97%	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	90%	90%	89%	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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSK2647-CC2632	**Injection Date:**	12/08/14
Lab File ID:	K84258.D	**Injection Time:**	10:22
Instrument ID:	GCMSK	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	261179	8.77	349594	9.62	179447	12.87	186635	15.43	92936	6.41
Upper Limit [a]	522358	9.27	699188	10.12	358894	13.37	373270	15.93	185872	6.91
Lower Limit [b]	130590	8.27	174797	9.12	89724	12.37	93318	14.93	46468	5.91

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSK2647-BS	261179	8.77	349594	9.62	179447	12.87	186635	15.43	92936	6.41
MSK2647-BSD	266587	8.77	363385	9.62	181414	12.87	185707	15.43	97278	6.41
MSK2647-MB	223592	8.77	303258	9.62	141145	12.88	162910	15.43	83742	6.40
ZZZZZZ	242044	8.77	328017	9.62	148562	12.88	172934	15.43	83743	6.43
ZZZZZZ	217764	8.77	299549	9.62	139009	12.88	158260	15.43	80232	6.41
ZZZZZZ	215103	8.77	293219	9.62	138226	12.88	155171	15.43	82474	6.41
ZZZZZZ	203663	8.78	282373	9.62	133387	12.88	147460	15.43	81495	6.41
ZZZZZZ	202881	8.77	275752	9.62	131967	12.88	152687	15.43	77493	6.43
MC35566-2	184293	8.77	247722	9.62	123098	12.88	141319	15.43	59745	6.41
MC35566-2MS	187378	8.77	258451	9.62	139527	12.87	147422	15.43	62404	6.41
MC35566-2MSD	191620	8.77	264609	9.62	138267	12.87	142314	15.43	65066	6.41
ZZZZZZ	176304	8.77	235926	9.62	111752	12.88	131259	15.43	52602	6.40
ZZZZZZ	183431	8.78	247377	9.62	128515	12.88	145825	15.43	22301[c]	6.35
ZZZZZZ	196471	8.77	270019	9.62	140275	12.88	155940	15.43	71662	6.41
ZZZZZZ	212570	8.77	293202	9.62	144428	12.88	159881	15.43	72029	6.41
ZZZZZZ	216145	8.77	293480	9.62	143530	12.88	168709	15.43	67703	6.40
ZZZZZZ	227672	8.77	311323	9.62	151574	12.88	172234	15.43	63517	6.40
ZZZZZZ	226307	8.77	308393	9.62	141820	12.88	169918	15.43	72664	6.42
ZZZZZZ	234052	8.77	316008	9.62	146538	12.88	169784	15.43	81316	6.45
ZZZZZZ	209932	8.77	284939	9.62	133764	12.88	156959	15.43	69816	6.43
ZZZZZZ	217728	8.77	283952	9.62	142098	12.88	162860	15.43	72293	6.41
ZZZZZZ	220765	8.77	294490	9.62	144505	12.88	167606	15.43	74853	6.41
ZZZZZZ	240714	8.78	335851	9.62	165193	12.88	192987	15.43	71623	6.41
ZZZZZZ	230562	8.77	322559	9.62	160306	12.88	177312	15.43	70676	6.40
MC35540-2	214739	8.77	299432	9.62	140191	12.88	176092	15.43	72569	6.39

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 Internal Standard Area Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSM2511-CC2495	**Injection Date:**	12/15/14
Lab File ID:	M70623.D	**Injection Time:**	08:36
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	160278	9.34	255372	10.22	114071	13.50	136454	16.06	50636	6.86
Upper Limit [a]	320556	9.84	510744	10.72	228142	14.00	272908	16.56	101272	7.36
Lower Limit [b]	80139	8.84	127686	9.72	57036	13.00	68227	15.56	25318	6.36
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSM2511-BS	151296	9.34	240206	10.22	106935	13.50	129897	16.06	50105	6.84
MSM2511-MB	148505	9.34	230971	10.22	101468	13.51	129214	16.06	47307	6.86
MC35540-1	154518	9.34	245139	10.22	110551	13.51	147626	16.06	91505	6.85
MC35540-3	156526	9.34	249540	10.22	112680	13.50	147415	16.06	86517	6.84
ZZZZZZ	151594	9.34	240309	10.22	102865	13.50	114740	16.06	52673	6.85
ZZZZZZ	158125	9.34	253050	10.22	112969	13.51	142657	16.07	96114	6.84
ZZZZZZ	155228	9.34	245665	10.22	110729	13.50	146089	16.06	95324	6.84
ZZZZZZ	162822	9.34	262365	10.22	117417	13.50	152443	16.06	88642	6.84
ZZZZZZ	155022	9.34	245844	10.22	107348	13.51	136651	16.06	55617	6.85
MC35540-1MS	157296	9.34	254935	10.22	118311	13.50	148110	16.06	92018	6.85
MC35540-1MSD	164550	9.34	268631	10.22	123128	13.50	152610	16.06	96400	6.86
ZZZZZZ	167797	9.34	264819	10.22	115687	13.51	148668	16.06	62019	6.86
ZZZZZZ	150956	9.34	233108	10.22	102086	13.50	132581	16.06	49945	6.85
ZZZZZZ	155412	9.34	241887	10.22	106945	13.51	138615	16.06	48413	6.84
ZZZZZZ	153245	9.34	236851	10.22	104493	13.51	133014	16.07	46025	6.84
ZZZZZZ	157674	9.34	245134	10.22	105942	13.51	132468	16.06	46093	6.84
ZZZZZZ	158418	9.34	245990	10.22	107247	13.50	132904	16.06	45541	6.84
ZZZZZZ	152164	9.34	232574	10.22	102107	13.51	127517	16.06	44852	6.86
ZZZZZZ	148147	9.34	227045	10.22	100737	13.51	130042	16.06	41473	6.84
ZZZZZZ	159313	9.34	245882	10.22	103596	13.51	130659	16.06	46297	6.86
ZZZZZZ	151234	9.34	235725	10.22	99729	13.50	127372	16.06	48164	6.85
ZZZZZZ	147561	9.34	229301	10.22	99678	13.50	126944	16.06	48236	6.85

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSN3435-CC3430	**Injection Date:**	12/10/14
Lab File ID:	N93002.D	**Injection Time:**	08:50
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	264832	9.10	403107	9.98	199993	13.23	169533	15.79	79156	6.69
Upper Limit [a]	529664	9.60	806214	10.48	399986	13.73	339066	16.29	158312	7.19
Lower Limit [b]	132416	8.60	201554	9.48	99997	12.73	84767	15.29	39578	6.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3435-BS	264832	9.10	403107	9.98	199993	13.23	169533	15.79	79156	6.69
MSN3435-MB	257667	9.10	392002	9.98	189584	13.24	143555	15.79	82158	6.74
ZZZZZZ	251276	9.10	382772	9.98	185187	13.24	138372	15.79	80004	6.74
MC35632-1	258160	9.10	385619	9.98	182302	13.24	131861	15.79	71858	6.76
ZZZZZZ	255314	9.10	386078	9.98	188292	13.24	145655	15.79	83965	6.74
MC35632-1MS	264264	9.11	402201	9.98	210833	13.23	173495	15.79	83023	6.70
MC35632-1MSD	266218	9.10	404059	9.98	210767	13.23	174487	15.79	76028	6.70
ZZZZZZ	260873	9.11	393002	9.98	190495	13.24	145800	15.79	90816	6.74
MC35540-5	258103	9.10	391391	9.98	187462	13.24	137643	15.79	79083	6.75
ZZZZZZ	256282	9.11	385588	9.98	185363	13.24	137993	15.79	80133	6.75
ZZZZZZ	255724	9.11	391071	9.98	186045	13.24	140348	15.79	86635	6.75
ZZZZZZ	258330	9.11	384720	9.98	186426	13.24	135868	15.79	81211	6.75
ZZZZZZ	255843	9.10	389935	9.98	189950	13.24	145849	15.79	80806	6.74
ZZZZZZ	257605	9.11	393298	9.98	191009	13.24	143576	15.79	78757	6.75
ZZZZZZ	256432	9.11	385710	9.98	184749	13.24	139616	15.79	77328	6.75
ZZZZZZ	256565	9.10	390923	9.98	190419	13.24	149957	15.79	73893	6.74
ZZZZZZ	259682	9.10	399696	9.97	192801	13.24	150138	15.79	80225	6.75
ZZZZZZ	263955	9.11	402663	9.98	197524	13.23	152690	15.79	75529	6.74

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35540-5	N93013.D	101	97	103
MC35632-1MS	N93010.D	101	100	92
MC35632-1MSD	N93011.D	103	99	91
MSN3435-BS	N93002.D	101	99	92
MSN3435-MB	N93005.D	100	98	101

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

Volatile Surrogate Recovery Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35540-1	M70628.D	107	97	89
MC35540-2	K84284.D	122	110	123
MC35540-3	M70629.D	106	97	90
MC35540-1MS	M70635.D	106	97	90
MC35540-1MSD	M70636.D	106	96	90
MC35566-2MS	K84268.D	118	112	109
MC35566-2MSD	K84269.D	119	112	110
MSK2647-BS	K84258.D	106	108	103
MSK2647-BSD	K84259.D	109	109	107
MSK2647-MB	K84261.D	122	105	104
MSM2511-BS	M70624.D	99	96	89
MSM2511-MB	M70627.D	100	97	89

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MB	F78609.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	480	60	ug/kg	
95-57-8	2-Chlorophenol	ND	240	11	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	480	12	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	480	14	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	480	78	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	120	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	480	60	ug/kg	
95-48-7	2-Methylphenol	ND	480	19	ug/kg	
	3&4-Methylphenol	ND	480	23	ug/kg	
88-75-5	2-Nitrophenol	ND	480	13	ug/kg	
100-02-7	4-Nitrophenol	ND	960	89	ug/kg	
87-86-5	Pentachlorophenol	ND	480	34	ug/kg	
108-95-2	Phenol	ND	240	14	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	480	12	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	480	12	ug/kg	
62-53-3	Aniline	ND	480	24	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	9.7	ug/kg	
100-51-6	Benzyl Alcohol	ND	480	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	13	ug/kg	
106-47-8	4-Chloroaniline	ND	480	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	11	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	15	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	240	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	480	32	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	480	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	24	ug/kg	
132-64-9	Dibenzofuran	ND	96	13	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	240	25	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	7.5	ug/kg	
84-66-2	Diethyl phthalate	ND	240	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	240	8.8	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	15	ug/kg	

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MB	F78609.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	480	120	ug/kg	
67-72-1	Hexachloroethane	ND	240	12	ug/kg	
78-59-1	Isophorone	ND	240	11	ug/kg	
88-74-4	2-Nitroaniline	ND	480	12	ug/kg	
99-09-2	3-Nitroaniline	ND	480	26	ug/kg	
100-01-6	4-Nitroaniline	ND	480	12	ug/kg	
98-95-3	Nitrobenzene	ND	240	13	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	240	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	14	ug/kg	
110-86-1	Pyridine	ND	480	24	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	90%	30-130%
4165-62-2	Phenol-d5	95%	30-130%
118-79-6	2,4,6-Tribromophenol	90%	30-130%
4165-60-0	Nitrobenzene-d5	94%	30-130%
321-60-8	2-Fluorobiphenyl	89%	30-130%
1718-51-0	Terphenyl-d14	118%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	2.61	250	ug/kg	JN
	Total TIC, Semi-Volatile		250	ug/kg	J

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-MB	I93318.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.83	ug/kg	
208-96-8	Acenaphthylene	ND	4.8	0.73	ug/kg	
120-12-7	Anthracene	ND	4.8	1.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4.8	2.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.8	2.1	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.8	1.5	ug/kg	
218-01-9	Chrysene	ND	4.8	1.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.4	ug/kg	
206-44-0	Fluoranthene	ND	4.8	1.4	ug/kg	
86-73-7	Fluorene	ND	4.8	0.94	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	96	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	96	24	ug/kg	
85-01-8	Phenanthrene	ND	4.8	1.0	ug/kg	
129-00-0	Pyrene	ND	4.8	1.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	106%	30-130%
321-60-8	2-Fluorobiphenyl	101%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-BS	F78610.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	2390	1840	77	30-130
95-57-8	2-Chlorophenol	2390	1970	82	30-130
59-50-7	4-Chloro-3-methyl phenol	2390	2120	89	30-130
120-83-2	2,4-Dichlorophenol	2390	2100	88	30-130
105-67-9	2,4-Dimethylphenol	2390	2010	84	30-130
51-28-5	2,4-Dinitrophenol	2390	1970	82	30-130
534-52-1	4,6-Dinitro-o-cresol	2390	2350	98	30-130
95-48-7	2-Methylphenol	2390	2030	85	30-130
	3&4-Methylphenol	4780	4120	86	30-130
88-75-5	2-Nitrophenol	2390	1970	82	30-130
100-02-7	4-Nitrophenol	2390	2180	91	30-130
87-86-5	Pentachlorophenol	2390	1670	70	30-130
108-95-2	Phenol	2390	2270	95	30-130
95-95-4	2,4,5-Trichlorophenol	2390	1970	82	30-130
88-06-2	2,4,6-Trichlorophenol	2390	1880	79	30-130
62-53-3	Aniline	2390	1180	49	40-140
101-55-3	4-Bromophenyl phenyl ether	2390	2080	87	40-140
85-68-7	Butyl benzyl phthalate	2390	2330	97	40-140
100-51-6	Benzyl Alcohol	2390	1610	67	40-140
91-58-7	2-Chloronaphthalene	2390	2090	87	40-140
106-47-8	4-Chloroaniline	2390	1220	51	40-140
111-91-1	bis(2-Chloroethoxy)methane	2390	2000	84	40-140
111-44-4	bis(2-Chloroethyl)ether	2390	2060	86	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2390	2410	101	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2390	1910	80	40-140
122-66-7	1,2-Diphenylhydrazine	2390	2270	95	40-140
121-14-2	2,4-Dinitrotoluene	2390	2150	90	40-140
606-20-2	2,6-Dinitrotoluene	2390	2100	88	40-140
91-94-1	3,3'-Dichlorobenzidine	2390	2020	85	40-140
132-64-9	Dibenzofuran	2390	1920	80	40-140
84-74-2	Di-n-butyl phthalate	2390	2200	92	40-140
117-84-0	Di-n-octyl phthalate	2390	2350	98	40-140
84-66-2	Diethyl phthalate	2390	2060	86	40-140
131-11-3	Dimethyl phthalate	2390	2010	84	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2390	2370	99	40-140
118-74-1	Hexachlorobenzene	2390	2100	88	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-BS	F78610.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	2390	1080	45	40-140
67-72-1	Hexachloroethane	2390	1790	75	40-140
78-59-1	Isophorone	2390	1830	77	40-140
88-74-4	2-Nitroaniline	2390	2160	90	40-140
99-09-2	3-Nitroaniline	2390	1660	69	40-140
100-01-6	4-Nitroaniline	2390	2090	87	40-140
98-95-3	Nitrobenzene	2390	1930	81	40-140
62-75-9	n-Nitrosodimethylamine	2390	1850	77	40-140
621-64-7	N-Nitroso-di-n-propylamine	2390	2130	89	40-140
86-30-6	N-Nitrosodiphenylamine	2390	1960	82	40-140
110-86-1	Pyridine	2390	1310	55	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	92%	30-130%
4165-62-2	Phenol-d5	99%	30-130%
118-79-6	2,4,6-Tribromophenol	104%	30-130%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	108%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-BS	I93319.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2390	2340	98	40-140
208-96-8	Acenaphthylene	2390	1920	80	40-140
120-12-7	Anthracene	2390	2340	98	40-140
56-55-3	Benzo(a)anthracene	2390	2640	110	40-140
50-32-8	Benzo(a)pyrene	2390	2460	103	40-140
205-99-2	Benzo(b)fluoranthene	2390	2650	111	40-140
191-24-2	Benzo(g,h,i)perylene	2390	2490	104	40-140
207-08-9	Benzo(k)fluoranthene	2390	2510	105	40-140
218-01-9	Chrysene	2390	2540	106	40-140
53-70-3	Dibenzo(a,h)anthracene	2390	2540	106	40-140
206-44-0	Fluoranthene	2390	2610	109	40-140
86-73-7	Fluorene	2390	2320	97	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2390	2500	105	40-140
90-12-0	1-Methylnaphthalene	2390	2140	90	40-140
91-57-6	2-Methylnaphthalene	2390	2260	95	40-140
85-01-8	Phenanthrene	2390	2380	100	40-140
129-00-0	Pyrene	2390	2370	99	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	109%	30-130%
321-60-8	2-Fluorobiphenyl	103%	30-130%
1718-51-0	Terphenyl-d14	105%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MS	F78611.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
OP41128-MSD	F78612.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
MC35568-4	F78613.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		2650	836	32	2610	833	32	0	30-130/30
95-57-8	2-Chlorophenol	ND		2650	2230	84	2610	2280	87	2	30-130/30
59-50-7	4-Chloro-3-methyl phenol	ND		2650	2380	90	2610	2450	94	3	30-130/30
120-83-2	2,4-Dichlorophenol	ND		2650	2380	90	2610	2400	92	1	30-130/30
105-67-9	2,4-Dimethylphenol	ND		2650	2400	91	2610	2370	91	1	30-130/30
51-28-5	2,4-Dinitrophenol	ND		2650	1290	49	2610	1740	67	30	30-130/30
534-52-1	4,6-Dinitro-o-cresol	ND		2650	2470	93	2610	2410	92	2	30-130/30
95-48-7	2-Methylphenol	ND		2650	2390	90	2610	2360	90	1	30-130/30
	3&4-Methylphenol	ND		5300	4890	92	5230	4820	92	1	30-130/30
88-75-5	2-Nitrophenol	ND		2650	2340	88	2610	2280	87	3	30-130/30
100-02-7	4-Nitrophenol	ND		2650	2750	104	2610	2550	98	8	30-130/30
87-86-5	Pentachlorophenol	ND		2650	2060	78	2610	2000	77	3	30-130/30
108-95-2	Phenol	ND		2650	2570	97	2610	2640	101	3	30-130/30
95-95-4	2,4,5-Trichlorophenol	ND		2650	2740	103	2610	2430	93	12	30-130/30
88-06-2	2,4,6-Trichlorophenol	ND		2650	2440	92	2610	2180	83	11	30-130/30
62-53-3	Aniline	ND		2650	1570	59	2610	1610	62	3	40-140/30
101-55-3	4-Bromophenyl phenyl ether	ND		2650	2620	99	2610	2550	98	3	40-140/30
85-68-7	Butyl benzyl phthalate	ND		2650	2540	96	2610	2560	98	1	40-140/30
100-51-6	Benzyl Alcohol	ND		2650	2050	77	2610	2000	77	2	40-140/30
91-58-7	2-Chloronaphthalene	ND		2650	2600	98	2610	2440	93	6	40-140/30
106-47-8	4-Chloroaniline	ND		2650	1660	63	2610	1730	66	4	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	ND		2650	2360	89	2610	2350	90	0	40-140/30
111-44-4	bis(2-Chloroethyl)ether	ND		2650	2380	90	2610	2370	91	0	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2650	2980	112	2610	2760	106	8	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	ND		2650	2310	87	2610	2240	86	3	40-140/30
122-66-7	1,2-Diphenylhydrazine	ND		2650	2910	110	2610	2650	101	9	40-140/30
121-14-2	2,4-Dinitrotoluene	ND		2650	2690	101	2610	2550	98	5	40-140/30
606-20-2	2,6-Dinitrotoluene	ND		2650	2450	92	2610	2460	94	0	40-140/30
91-94-1	3,3'-Dichlorobenzidine	ND		2650	2300	87	2610	2410	92	5	40-140/30
132-64-9	Dibenzofuran	ND		2650	2330	88	2610	2200	84	6	40-140/30
84-74-2	Di-n-butyl phthalate	ND		2650	2550	96	2610	2450	94	4	40-140/30
117-84-0	Di-n-octyl phthalate	ND		2650	2680	101	2610	2520	96	6	40-140/30
84-66-2	Diethyl phthalate	ND		2650	2520	95	2610	2430	93	4	40-140/30
131-11-3	Dimethyl phthalate	ND		2650	2380	90	2610	2440	93	2	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2650	2790	105	2610	2560	98	9	40-140/30
118-74-1	Hexachlorobenzene	ND		2650	2470	93	2610	2400	92	3	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MS	F78611.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
OP41128-MSD	F78612.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
MC35568-4	F78613.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		2650	1330	50	2610	1200	46	10	40-140/30
67-72-1	Hexachloroethane	ND		2650	2150	81	2610	2060	79	4	40-140/30
78-59-1	Isophorone	ND		2650	2290	86	2610	2140	82	7	40-140/30
88-74-4	2-Nitroaniline	ND		2650	2740	103	2610	2580	99	6	40-140/30
99-09-2	3-Nitroaniline	ND		2650	2100	79	2610	2100	80	0	40-140/30
100-01-6	4-Nitroaniline	ND		2650	2600	98	2610	2310	88	12	40-140/30
98-95-3	Nitrobenzene	ND		2650	2450	92	2610	2250	86	9	40-140/30
62-75-9	n-Nitrosodimethylamine	ND		2650	2110	80	2610	2290	88	8	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	ND		2650	2680	101	2610	2570	98	4	40-140/30
86-30-6	N-Nitrosodiphenylamine	ND		2650	2470	93	2610	2260	86	9	40-140/30
110-86-1	Pyridine	ND		2650	1500	57	2610	1720	66	14	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
367-12-4	2-Fluorophenol	90%	94%	85%	30-130%
4165-62-2	Phenol-d5	96%	99%	92%	30-130%
118-79-6	2,4,6-Tribromophenol	107%	101%	95%	30-130%
4165-60-0	Nitrobenzene-d5	98%	93%	82%	30-130%
321-60-8	2-Fluorobiphenyl	96%	90%	82%	30-130%
1718-51-0	Terphenyl-d14	97%	105%	99%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-MS	I93320.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
OP41129-MSD	I93321.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
MC35568-4	I93322.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2650	2690	101	2610	2720	104	1	40-140/30
208-96-8	Acenaphthylene	ND		2650	2220	84	2610	2250	86	1	40-140/30
120-12-7	Anthracene	ND		2650	2750	104	2610	2710	104	1	40-140/30
56-55-3	Benzo(a)anthracene	ND		2650	3040	115	2610	2970	114	2	40-140/30
50-32-8	Benzo(a)pyrene	ND		2650	2840	107	2610	2800	107	1	40-140/30
205-99-2	Benzo(b)fluoranthene	ND		2650	2900	109	2610	2990	114	3	40-140/30
191-24-2	Benzo(g,h,i)perylene	ND		2650	2850	108	2610	2780	106	2	40-140/30
207-08-9	Benzo(k)fluoranthene	ND		2650	3030	114	2610	2780	106	9	40-140/30
218-01-9	Chrysene	ND		2650	2910	110	2610	2850	109	2	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		2650	2880	109	2610	2850	109	1	40-140/30
206-44-0	Fluoranthene	ND		2650	3010	114	2610	2980	114	1	40-140/30
86-73-7	Fluorene	ND		2650	2720	103	2610	2680	103	1	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2650	2860	108	2610	2800	107	2	40-140/30
90-12-0	1-Methylnaphthalene	ND		2650	2470	93	2610	2470	95	0	40-140/30
91-57-6	2-Methylnaphthalene	ND		2650	2600	98	2610	2610	100	0	40-140/30
85-01-8	Phenanthrene	ND		2650	2780	105	2610	2740	105	1	40-140/30
129-00-0	Pyrene	ND		2650	2750	104	2610	2720	104	1	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
4165-60-0	Nitrobenzene-d5	106%	109%	98%	30-130%
321-60-8	2-Fluorobiphenyl	102%	105%	97%	30-130%
1718-51-0	Terphenyl-d14	103%	104%	102%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3430-CC3417	**Injection Date:**	12/10/14
Lab File ID:	F78595.D	**Injection Time:**	15:32
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	56655	2.70	208370	3.72	126188	5.19	241417	6.42	256287	8.67	273965	9.97
Upper Limit [a]	113310	3.20	416740	4.22	252376	5.69	482834	6.92	512574	9.17	547930	10.47
Lower Limit [b]	28328	2.20	104185	3.22	63094	4.69	120709	5.92	128144	8.17	136983	9.47
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**
OP41108-MB	62504	2.70	212995	3.72	136068	5.19	225565	6.42	278529	8.67	255808	9.96
OP41108-BS	72545	2.70	241746	3.72	140246	5.19	278414	6.42	307231	8.67	312374	9.97
OP41108-MS	71141	2.70	240083	3.72	145402	5.19	271129	6.42	312688	8.67	311950	9.97
OP41108-MSD	64786	2.70	218200	3.72	134982	5.19	275073	6.42	321963	8.67	313907	9.97
MC35526-6	61419	2.69	219217	3.72	133202	5.19	249687	6.42	320287	8.67	311723	9.96
ZZZZZZ	66320	2.70	226955	3.72	138286	5.19	292410	6.42	344915	8.67	345451	9.96
ZZZZZZ	67913	2.70	221808	3.72	133238	5.19	241481	6.42	294144	8.67	288578	9.97
ZZZZZZ	66952	2.70	241890	3.72	144688	5.19	268937	6.42	287802	8.66	279259	9.96
ZZZZZZ	67534	2.70	241694	3.72	131042	5.19	233621	6.42	255785	8.67	253706	9.96
ZZZZZZ	68822	2.70	260525	3.72	149522	5.19	245799	6.42	264574	8.66	273367	9.96
ZZZZZZ	66266	2.70	222224	3.72	144651	5.19	260895	6.42	246679	8.66	241108	9.96
ZZZZZZ	68936	2.70	239247	3.72	151770	5.19	271297	6.42	273090	8.66	275215	9.96
ZZZZZZ	74360	2.70	270089	3.72	146481	5.19	257392	6.42	300783	8.66	287789	9.96
OP41128-MB	81906	2.70	289351	3.72	161828	5.19	299009	6.42	279860	8.66	273629	9.97
OP41128-BS	75596	2.70	267378	3.72	162109	5.19	278916	6.42	300000	8.67	298724	9.97
OP41128-MS	78431	2.70	269334	3.72	158070	5.19	267604	6.42	311286	8.67	313963	9.97
OP41128-MSD	69457	2.70	248623	3.72	157596	5.19	263389	6.42	283457	8.67	289968	9.97
MC35568-4	78815	2.70	277333	3.72	168224	5.19	296838	6.42	291649	8.67	284111	9.97
ZZZZZZ	73098	2.70	265309	3.72	161295	5.19	282861	6.42	286470	8.67	313641	9.96
MC35540-1	72677	2.70	254026	3.72	154592	5.19	281989	6.42	296960	8.67	281345	9.97
MC35540-3	73337	2.70	242665	3.72	154780	5.19	270457	6.42	271832	8.67	277274	9.96
ZZZZZZ	71304	2.70	252762	3.72	170059	5.19	301928	6.42	311945	8.67	297137	9.96
ZZZZZZ	77872	2.70	289173	3.72	179007	5.19	313793	6.42	322880	8.67	308885	9.96
ZZZZZZ	84843	2.70	306242	3.72	183096	5.19	307860	6.42	319287	8.66	300194	9.97
ZZZZZZ	64778	2.69	245008	3.71	151874	5.19	279903	6.42	319637	8.67	317737	9.97
ZZZZZZ	70214	2.70	243863	3.72	149109	5.19	261941	6.42	292181	8.66	293049	9.96
ZZZZZZ	59644	2.70	231422	3.72	145643	5.19	272513	6.41	316716	8.67	318725	9.96
ZZZZZZ	66132	2.69	244296	3.72	152698	5.19	284886	6.42	332076	8.67	331089	9.96
ZZZZZZ	68797	2.69	264817	3.72	158949	5.19	291463	6.42	331993	8.67	335073	9.97

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3430-CC3417	**Injection Date:**	12/10/14
Lab File ID:	F78595.D	**Injection Time:**	15:32
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3431-CC3417	**Injection Date:**	12/11/14
Lab File ID:	F78628.D	**Injection Time:**	07:56
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	54656	2.67	204964	3.70	129548	5.17	234818	6.40	271120	8.65	273014	9.94
Upper Limit [a]	109312	3.17	409928	4.20	259096	5.67	469636	6.90	542240	9.15	546028	10.44
Lower Limit [b]	27328	2.17	102482	3.20	64774	4.67	117409	5.90	135560	8.15	136507	9.44
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	62433	2.67	221944	3.69	141341	5.17	288135	6.39	333412	8.64	332799	9.93
ZZZZZZ	57185	2.67	226985	3.69	137964	5.17	266039	6.39	307371	8.64	306168	9.93
OP41170-MB	68983	2.67	227881	3.69	147015	5.16	283471	6.39	308401	8.64	295521	9.93
OP41170-BS	67573	2.67	220125	3.69	130808	5.17	231469	6.40	289634	8.65	282279	9.93
ZZZZZZ	68412	2.67	224543	3.69	133347	5.17	241145	6.39	294947	8.64	280836	9.93
ZZZZZZ	65343	2.67	215432	3.69	142731	5.17	272307	6.39	288415	8.64	279552	9.93
ZZZZZZ	55618	2.67	193601	3.69	120635	5.16	228021	6.39	252306	8.64	263929	9.93
ZZZZZZ	68864	2.67	248995	3.69	136365	5.17	247275	6.39	269311	8.64	259692	9.93
ZZZZZZ	64640	2.67	211961	3.69	139550	5.16	242349	6.39	257648	8.64	244145	9.93
ZZZZZZ	68496	2.67	235225	3.69	141841	5.16	244155	6.39	265596	8.64	252794	9.93
ZZZZZZ	61286	2.67	230886	3.69	127902	5.16	235118	6.39	283637	8.64	246116	9.93
ZZZZZZ	70489	2.67	243551	3.69	145781	5.16	264412	6.39	310084	8.64	271530	9.93
ZZZZZZ	66722	2.67	242040	3.69	132928	5.17	256687	6.39	246048	8.65	267311	9.95
ZZZZZZ	64008	2.67	226532	3.69	147830	5.17	267314	6.39	287577	8.64	281570	9.93
ZZZZZZ	67203	2.67	241633	3.69	155101	5.17	276128	6.39	286039	8.64	283333	9.93
ZZZZZZ	67451	2.67	244492	3.69	145035	5.17	275639	6.39	284341	8.64	271780	9.94
ZZZZZZ	67614	2.67	238411	3.69	144583	5.17	227905	6.39	247167	8.64	250358	9.93
ZZZZZZ	66999	2.67	232234	3.69	134842	5.17	263255	6.39	283369	8.64	281345	9.93
ZZZZZZ	66257	2.67	233762	3.69	135695	5.17	265981	6.39	287983	8.64	274452	9.93
ZZZZZZ	63776	2.67	234526	3.69	129449	5.17	231658	6.39	249316	8.64	252720	9.93
ZZZZZZ	71867	2.67	252076	3.69	144224	5.17	256783	6.39	265919	8.64	306901	9.93
ZZZZZZ	66929	2.67	235523	3.69	139916	5.17	234910	6.39	247362	8.64	258107	9.93
ZZZZZZ	71136	2.67	237345	3.69	147421	5.16	262146	6.39	285194	8.64	283138	9.94
ZZZZZZ	55524	2.67	215107	3.69	121294	5.17	243451	6.39	278714	8.64	263317	9.93
MC35540-2	61111	2.68	233383	3.70	140642	5.18	255265	6.40	260579	8.64	260740	9.93

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3479-CC3427	**Injection Date:**	12/08/14
Lab File ID:	I93305.D	**Injection Time:**	08:13
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	298378	4.04	598643	5.08	351327	6.62	620420	7.99	456137	10.76	1163155	12.24
Upper Limit [a]	596756	4.54	1197286	5.58	702654	7.12	1240840	8.49	912274	11.26	2326310	12.74
Lower Limit [b]	149189	3.54	299322	4.58	175664	6.12	310210	7.49	228069	10.26	581578	11.74

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
OP41120-LB	277092	4.04	555397	5.08	321908	6.61	561678	7.99	417739	10.76	1059702	12.24
OP41120-MB	277092	4.04	555397	5.08	321908	6.61	561678	7.99	417739	10.76	1059702	12.24
OP41120-BS	269629	4.04	543238	5.09	311749	6.62	544346	7.99	406819	10.76	1004782	12.24
ZZZZZZ	289589	4.04	585211	5.08	337033	6.61	583442	7.99	431160	10.76	1107057	12.24
OP41088-MB	257865	4.04	516882	5.08	300331	6.62	519159	7.99	375705	10.76	950294	12.24
OP41088-BS	229497	4.04	456239	5.08	262973	6.61	451278	7.99	327134	10.76	839404	12.24
OP41088-MS	247848	4.04	496953	5.08	286624	6.62	488221	7.99	355980	10.76	911803	12.24
OP41088-MSD	250110	4.04	497207	5.08	286440	6.61	492535	7.99	354501	10.76	909446	12.24
MC35413-11	242130	4.04	484006	5.08	277223	6.61	483139	7.99	341760	10.76	882200	12.24
ZZZZZZ	254925	4.04	510822	5.08	291665	6.61	507373	7.98	358505	10.75	927180	12.23
ZZZZZZ	255869	4.04	506155	5.08	293078	6.61	503047	7.98	358302	10.76	929015	12.24
ZZZZZZ	271009	4.04	538525	5.08	309219	6.61	531906	7.98	380261	10.76	979360	12.24
ZZZZZZ	272129	4.04	539962	5.08	311381	6.61	540111	7.99	379463	10.75	981339	12.24
OP41129-MB	309304	4.04	620658	5.08	352580	6.61	605890	7.99	429503	10.76	1066991	12.24
OP41129-BS	313516	4.04	615391	5.09	357290	6.62	628058	7.99	454777	10.76	1105608	12.24
OP41129-MS	313326	4.04	614235	5.09	354923	6.62	608348	7.99	437666	10.76	1056642	12.24
OP41129-MSD	312897	4.04	621904	5.09	354178	6.62	606763	7.99	437122	10.76	1050605	12.24
MC35568-4	316428	4.04	635457	5.08	361447	6.61	619901	7.99	435628	10.76	1078680	12.24
MC35540-1	305624	4.04	615026	5.08	351875	6.62	603311	7.99	424422	10.76	1056489	12.24
MC35540-2	264117	4.06	464769	5.12	321760	6.66	552851	8.02	405083	10.76	1021868	12.24
MC35540-3	291084	4.04	601335	5.08	344623	6.61	594540	7.99	426417	10.76	1042777	12.24
ZZZZZZ	285047	4.04	594769	5.09	335300	6.62	570433	7.99	407187	10.76	1007679	12.24
ZZZZZZ	303218	4.04	628600	5.09	357428	6.62	603983	7.99	432569	10.76	1079223	12.24
ZZZZZZ	321576	4.04	654433	5.08	373770	6.61	644085	7.99	456974	10.76	1122876	12.24

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3480-CC3427	**Injection Date:**	12/09/14
Lab File ID:	I93331.D	**Injection Time:**	07:56
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	322087	4.02	649668	5.07	385479	6.59	694300	7.97	511079	10.73	1294100	12.21
Upper Limit [a]	644174	4.52	1299336	5.57	770958	7.09	1388600	8.47	1022158	11.23	2588200	12.71
Lower Limit [b]	161044	3.52	324834	4.57	192740	6.09	347150	7.47	255540	10.23	647050	11.71

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
OP41139-MB	312645	4.02	637272	5.07	369575	6.59	640450	7.96	474281	10.73	1179308	12.21
OP41139-BS	312932	4.02	629963	5.07	368863	6.59	649548	7.97	479271	10.74	1171319	12.21
OP41139-MS	309444	4.02	627205	5.07	366534	6.59	648724	7.97	484638	10.74	1183922	12.21
OP41139-MSD	320023	4.02	651917	5.07	379401	6.59	663087	7.97	494107	10.74	1198096	12.21
MC35413-24	306964	4.02	624228	5.06	364048	6.59	633840	7.96	466878	10.73	1171870	12.21
ZZZZZZ	323440	4.02	661809	5.06	380514	6.59	662392	7.96	484218	10.73	1215861	12.21
ZZZZZZ	312573	4.02	636039	5.07	369343	6.59	639143	7.96	473148	10.73	1195945	12.21
MC35540-2	247032	4.02	514645	5.07	304056	6.60	521760	7.97	390372	10.73	998790	12.21
ZZZZZZ	306630	4.02	630260	5.07	367473	6.59	630674	7.96	467007	10.73	1191759	12.21
ZZZZZZ	311111	4.02	635472	5.07	366109	6.59	639749	7.96	464929	10.74	1174688	12.21
ZZZZZZ	309413	4.02	631364	5.07	352701	6.60	636100	7.98	482905	10.74	1188377	12.21
ZZZZZZ	289471	4.02	597076	5.07	350152	6.59	617875	7.96	465135	10.73	1158790	12.21
ZZZZZZ	310651	4.02	633395	5.06	369212	6.59	647772	7.96	480857	10.73	1193767	12.21
OP41141-MB	319963	4.02	654813	5.07	379343	6.59	658098	7.97	479359	10.74	1198285	12.21
OP41141-BS	328285	4.02	669295	5.07	392034	6.59	685454	7.97	512106	10.74	1242868	12.22
ZZZZZZ	318319	4.02	655130	5.07	383073	6.59	667455	7.96	495861	10.73	1246149	12.21
ZZZZZZ	328381	4.02	674324	5.07	391519	6.59	679738	7.97	508711	10.73	1262914	12.21
ZZZZZZ	329274	4.02	681580	5.07	395750	6.59	686890	7.96	502593	10.74	1255445	12.21
ZZZZZZ	325964	4.02	666165	5.06	387983	6.59	669778	7.96	494135	10.74	1218072	12.21

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC35540-1	F78615.D	89	96	96	91	87	102
MC35540-2	F78654.D	83	77	80	129	81	106
MC35540-3	F78617.D	93	96	100	102	88	102
OP41128-BS	F78610.D	92	99	104	92	90	108
OP41128-MB	F78609.D	90	95	90	94	89	118
OP41128-MS	F78611.D	90	96	107	98	96	97
OP41128-MSD	F78612.D	94	99	101	93	90	105

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

Semivolatile Surrogate Recovery Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35540-1	I93323.D	103	100	105
MC35540-2	I93339.D	127	96	98
MC35540-2	I93324.D	128	73	92
MC35540-3	I93325.D	103	102	107
OP41129-BS	I93319.D	109	103	105
OP41129-MB	I93318.D	106	101	103
OP41129-MS	I93320.D	106	102	103
OP41129-MSD	I93321.D	109	105	104

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MB	BB61295.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.73	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.5	0.61	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	110%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MB	YZ92498.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35540-4

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	36-173%

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4688-MB	AB87185.D	1	12/05/14	AF	n/a	n/a	GAB4688

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-2, MC35540-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	89%	50-130%

Method Blank Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4690-MB	AB87205.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	90%	50-130%

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-BS	BB61296.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	33.1	28.4	86	59-142
106-93-4	1,2-Dibromoethane	33.1	29.3	88	56-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-BS	YZ92499.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35540-4

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	0.067	94	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	93%	36-173%
460-00-4	Bromofluorobenzene (S)	99%	36-173%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4688-BSP	AB87186.D	1	12/05/14	AF	n/a	n/a	GAB4688
GAB4688-BSD	AB87187.D	1	12/05/14	AF	n/a	n/a	GAB4688

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-2, MC35540-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	32.5	100	31.6	97	3	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	103%	99%	50-130%

* = Outside of Control Limits.

8.3.1

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Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4690-BSP	AB87206.D	1	12/08/14	AF	n/a	n/a	GAB4690
GAB4690-BSD	AB87207.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	30.3	93	30.6	94	1	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	97%	97%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MS	BB61297.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
OP41183-MSD	BB61298.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
MC35568-4	BB61299.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35540-1, MC35540-2, MC35540-3

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		35.2	37.8	108	35.4	36.8	104	3	40-156/27
106-93-4	1,2-Dibromoethane	ND		35.2	35.5	101	35.4	34.7	98	2	48-141/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
460-00-4	Bromofluorobenzene (S)	134%	124%	131%	61-167%
460-00-4	Bromofluorobenzene (S)	129%	120%	132%	61-167%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MS	YZ92506.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
OP41251-MSD	YZ92507.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
MC35700-18	YZ92509.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35540-4

CAS No.	Compound	MC35700-18 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	0.056	79	0.071	0.059	83	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.062	87	0.071	0.074	104	18	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35700-18	Limits
460-00-4	Bromofluorobenzene (S)	85%	83%	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	94%	88%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35550-1MS	AB87190.D	1	12/05/14	AF	n/a	n/a	GAB4688
MC35550-1MSD	AB87191.D	1	12/05/14	AF	n/a	n/a	GAB4688
MC35550-1	AB87189.D	1	12/05/14	AF	n/a	n/a	GAB4688

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-2, MC35540-3

CAS No.	Compound	MC35550-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		31.7	31.2	98	31.7	31.1	98	0	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC35550-1	Limits
	2,3,4-Trifluorotoluene	101%	102%	90%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-4MS	AB87210.D	1	12/08/14	AF	n/a	n/a	GAB4690
MC35568-4MSD	AB87211.D	1	12/08/14	AF	n/a	n/a	GAB4690
MC35568-4	AB87209.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35540-1

CAS No.	Compound	MC35568-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		78.5	74.0	94	78.5	73.6	94	1	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
	2,3,4-Trifluorotoluene	99%	100%	93%	50-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 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]
MC35540-4	YZ92500.D	84	91
OP41251-BS	YZ92499.D	93	99
OP41251-MB	YZ92498.D	81	94
OP41251-MS	YZ92506.D	85	94
OP41251-MSD	YZ92507.D	83	94

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

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

Volatile Surrogate Recovery Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC35540-1	BB61307.D	144	119
MC35540-2	BB61308.D	131	120
MC35540-3	BB61309.D	152	130
OP41183-BS	BB61296.D	118	109
OP41183-MB	BB61295.D	110	109
OP41183-MS	BB61297.D	134	129
OP41183-MSD	BB61298.D	124	120

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	61-167%

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

Volatile Surrogate Recovery Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8015 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC35540-1	AB87215.D	89
MC35540-2	AB87195.D	94
MC35540-3	AB87198.D	93
GAB4688-BSD	AB87187.D	99
GAB4688-BSP	AB87186.D	103
GAB4688-MB	AB87185.D	89
GAB4690-BSD	AB87207.D	97
GAB4690-BSP	AB87206.D	97
GAB4690-MB	AB87205.D	90
MC35550-1MS	AB87190.D	101
MC35550-1MSD	AB87191.D	102
MC35568-4MS	AB87210.D	99
MC35568-4MSD	AB87211.D	100

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	50-130%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GBB3368-CC3368	**Injection Date:**	12/11/14
Lab File ID:	BB61294.D	**Injection Time:**	11:30
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.93	4.06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41183-MB	BB61295.D	12/11/14	11:51	3.92	4.06
OP41183-BS	BB61296.D	12/11/14	12:12	3.93	4.06
OP41183-MS	BB61297.D	12/11/14	12:34	3.92	4.06
OP41183-MSD	BB61298.D	12/11/14	12:56	3.92	4.06
MC35568-4	BB61299.D	12/11/14	13:47	3.92	4.06
ZZZZZZ	BB61300.D	12/11/14	14:08	3.92	4.06
ZZZZZZ	BB61301.D	12/11/14	14:29	3.92	4.06
ZZZZZZ	BB61302.D	12/11/14	14:51	3.92	4.06
ZZZZZZ	BB61303.D	12/11/14	15:12	3.92	4.06
ZZZZZZ	BB61304.D	12/11/14	15:33	3.92	4.06

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GBB3368-CC3368	**Injection Date:**	12/11/14
Lab File ID:	BB61305.D	**Injection Time:**	15:54
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.92	4.06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB61306.D	12/11/14	16:18	3.92	4.06
MC35540-1	BB61307.D	12/11/14	16:41	3.92	4.06
MC35540-2	BB61308.D	12/11/14	17:03	3.92	4.06
MC35540-3	BB61309.D	12/11/14	17:25	3.92	4.06
GBB3368-ECC3368	BB61310.D	12/11/14	17:47	3.92	4.06

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GYZ7687-ICC7687	**Injection Date:**	12/15/14
Lab File ID:	YZ92494.D	**Injection Time:**	17:51
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.36	3.49

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41251-MB	YZ92498.D	12/15/14	18:56	3.36	3.50
OP41251-BS	YZ92499.D	12/15/14	19:12	3.36	3.49
MC35540-4	YZ92500.D	12/15/14	19:28	3.36	3.50
ZZZZZZ	YZ92501.D	12/15/14	19:45	3.36	3.50
ZZZZZZ	YZ92502.D	12/15/14	20:01	3.36	3.49
ZZZZZZ	YZ92503.D	12/15/14	20:17	3.36	3.49
ZZZZZZ	YZ92504.D	12/15/14	20:34	3.36	3.49
ZZZZZZ	YZ92505.D	12/15/14	20:50	3.36	3.49
OP41251-MS	YZ92506.D	12/15/14	21:07	3.36	3.49
OP41251-MSD	YZ92507.D	12/15/14	21:23	3.36	3.50

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: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4689-CC4654	**Injection Date:**	12/05/14
Lab File ID:	AB87184A.D	**Injection Time:**	07:31
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4689-MB	AB87185A.D	12/05/14	08:07	20.28
GAB4688-MB	AB87185.D	12/05/14	08:07	20.28
GAB4689-BSP	AB87186A.D	12/05/14	08:44	20.28
GAB4688-BSP	AB87186.D	12/05/14	08:44	20.28
GAB4689-BSD	AB87187A.D	12/05/14	09:20	20.28
GAB4688-BSD	AB87187.D	12/05/14	09:20	20.28
MC35533-4	AB87188.D	12/05/14	09:56	20.29
MC35550-1	AB87189.D	12/05/14	10:33	20.29
MC35550-1MS	AB87190.D	12/05/14	11:10	20.29
MC35550-1MSD	AB87191.D	12/05/14	11:47	20.29
MC35533-4MS	AB87192.D	12/05/14	12:24	20.29
MC35533-4MSD	AB87193.D	12/05/14	13:02	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4688-CC4654	**Injection Date:**	12/05/14
Lab File ID:	AB87184.D	**Injection Time:**	07:31
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4689-MB	AB87185A.D	12/05/14	08:07	20.28
GAB4688-MB	AB87185.D	12/05/14	08:07	20.28
GAB4689-BSP	AB87186A.D	12/05/14	08:44	20.28
GAB4688-BSP	AB87186.D	12/05/14	08:44	20.28
GAB4689-BSD	AB87187A.D	12/05/14	09:20	20.28
GAB4688-BSD	AB87187.D	12/05/14	09:20	20.28
MC35533-4	AB87188.D	12/05/14	09:56	20.29
MC35550-1	AB87189.D	12/05/14	10:33	20.29
MC35550-1MS	AB87190.D	12/05/14	11:10	20.29
MC35550-1MSD	AB87191.D	12/05/14	11:47	20.29
MC35533-4MS	AB87192.D	12/05/14	12:24	20.29
MC35533-4MSD	AB87193.D	12/05/14	13:02	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4688-CC4654	**Injection Date:**	12/05/14
Lab File ID:	AB87194.D	**Injection Time:**	13:39
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC35540-2	AB87195.D	12/05/14	14:16	20.29
MC35540-3	AB87198.D	12/05/14	16:08	20.29
ZZZZZZ	AB87199.D	12/05/14	16:45	20.29
ZZZZZZ	AB87200.D	12/05/14	17:23	20.29
ZZZZZZ	AB87201.D	12/05/14	18:00	20.29
ZZZZZZ	AB87202.D	12/05/14	18:37	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

8.9.6

8

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4689-CC4654	**Injection Date:**	12/05/14
Lab File ID:	AB87194A.D	**Injection Time:**	13:39
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC35540-2	AB87195.D	12/05/14	14:16	20.29
MC35540-3	AB87198.D	12/05/14	16:08	20.29
ZZZZZZ	AB87199.D	12/05/14	16:45	20.29
ZZZZZZ	AB87200.D	12/05/14	17:23	20.29
ZZZZZZ	AB87201.D	12/05/14	18:00	20.29
ZZZZZZ	AB87202.D	12/05/14	18:37	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4691-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87204A.D	**Injection Time:**	08:16
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4691-MB	AB87205A.D	12/08/14	08:53	20.28
GAB4690-MB	AB87205.D	12/08/14	08:53	20.28
GAB4690-BSP	AB87206.D	12/08/14	09:30	20.28
GAB4691-BSP	AB87206A.D	12/08/14	09:30	20.28
GAB4690-BSD	AB87207.D	12/08/14	10:07	20.28
GAB4691-BSD	AB87207A.D	12/08/14	10:07	20.28
MC35577-5	AB87208.D	12/08/14	10:44	20.29
MC35568-4	AB87209.D	12/08/14	11:21	20.29
MC35568-4MS	AB87210.D	12/08/14	11:58	20.29
MC35568-4MSD	AB87211.D	12/08/14	12:35	20.29
MC35577-5MS	AB87212.D	12/08/14	13:12	20.29
MC35577-5MSD	AB87213.D	12/08/14	13:50	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4690-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87204.D	**Injection Time:**	08:16
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4691-MB	AB87205A.D	12/08/14	08:53	20.28
GAB4690-MB	AB87205.D	12/08/14	08:53	20.28
GAB4690-BSP	AB87206.D	12/08/14	09:30	20.28
GAB4691-BSP	AB87206A.D	12/08/14	09:30	20.28
GAB4690-BSD	AB87207.D	12/08/14	10:07	20.28
GAB4691-BSD	AB87207A.D	12/08/14	10:07	20.28
MC35577-5	AB87208.D	12/08/14	10:44	20.29
MC35568-4	AB87209.D	12/08/14	11:21	20.29
MC35568-4MS	AB87210.D	12/08/14	11:58	20.29
MC35568-4MSD	AB87211.D	12/08/14	12:35	20.29
MC35577-5MS	AB87212.D	12/08/14	13:12	20.29
MC35577-5MSD	AB87213.D	12/08/14	13:50	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

8.6.9

8

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4690-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87214.D	**Injection Time:**	14:27
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC35540-1	AB87215.D	12/08/14	15:03	20.28
ZZZZZZ	AB87216.D	12/08/14	15:40	20.28
ZZZZZZ	AB87217.D	12/08/14	16:17	20.28
ZZZZZZ	AB87219.D	12/08/14	17:31	20.29
ZZZZZZ	AB87220.D	12/08/14	18:07	20.28
ZZZZZZ	AB87221.D	12/08/14	18:43	20.28
ZZZZZZ	AB87222.D	12/08/14	19:20	20.28

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4691-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87214A.D	**Injection Time:**	14:27
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC35540-1	AB87215.D	12/08/14	15:03	20.28
ZZZZZZ	AB87216.D	12/08/14	15:40	20.28
ZZZZZZ	AB87217.D	12/08/14	16:17	20.28
ZZZZZZ	AB87219.D	12/08/14	17:31	20.29
ZZZZZZ	AB87220.D	12/08/14	18:07	20.28
ZZZZZZ	AB87221.D	12/08/14	18:43	20.28
ZZZZZZ	AB87222.D	12/08/14	19:20	20.28

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC35540
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample: MC35540-1 **Analyzed:** 05-DEC-14 by HS **Method:** SM 2540G-97 MOD
ClientID: P92C_32_120314

Wet Weight (Total)	35.729	g
Tare Weight	21.938	g
Dry Weight (Total)	34.71	g
Solids, Percent	92.6	%

Sample: MC35540-2 **Analyzed:** 05-DEC-14 by HS **Method:** SM 2540G-97 MOD
ClientID: P92C_50_120314

Wet Weight (Total)	40.123	g
Tare Weight	28.266	g
Dry Weight (Total)	38.166	g
Solids, Percent	83.5	%

Sample: MC35540-3 **Analyzed:** 05-DEC-14 by HS **Method:** SM 2540G-97 MOD
ClientID: P92C_93_120314

Wet Weight (Total)	38.987	g
Tare Weight	25.646	g
Dry Weight (Total)	37.149	g
Solids, Percent	86.2	%

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 WRR Well Replacement, 900 Central Avenue, Roxana, IL

21563721.02009

SGS Accutest Job Number: MC35568

Sampling Date: 12/04/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 133

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

October 28, 2016

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

RE: SGS Accutest Job # MC35568

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: MC35568

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC35568-1	12/04/14	12:50	MM	12/05/14	SO	Soil	P93C-50-120414
MC35568-2	12/04/14	12:50	MM	12/05/14	SO	Soil	P93C-50-120414-DUP
MC35568-3	12/04/14	13:00	MM	12/05/14	SO	Soil	P93C-94-120414
MC35568-4	12/04/14	14:00	MM	12/05/14	SO	Soil	P93C-40-120414
MC35568-4D	12/04/14	14:00	MM	12/05/14	SO	Soil Dup/MSD	P93C-40-120414
MC35568-4S	12/04/14	14:00	MM	12/05/14	SO	Soil Matrix Spike	P93C-40-120414
MC35568-5	12/04/14	08:00	MM	12/05/14	AQ	Trip Blank Water	TB-120414-ST
MC35568-6	12/04/14	08:00	MM	12/05/14	AQ	Trip Blank Water	TB-120414-HCL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC35568

Site: URSMOSTL:Roxana WRR We Rep acement, 900 Centra Avenue, **Report Date** 0/28/20 6 2:34:2 P

4 Samp e(s), 2 Tr p B ank(s) were co ected on 2/04/20 4 and were rece ved at SGS Accutest New Eng and on 2/05/20 4 proper y preserved, at 3 3 Deg C and ntact These Samp es rece ved a job number of MC35568 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 8260C

Matrix: AQ **Batch ID:** MSU 056

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35558-2MS, MC35558-2MSD 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
- B ank Sp ke Recovery(s) for Acro e n, Bromomethane, D ch orod f uoromethane, V ny Acetate, V ny ch or de are outs de contro m ts
- Matr x Sp ke Recovery(s) for Acro e n, V ny Acetate 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 V ny Acetate, ,4-D oxane, 2-Butanone (MEK), Acro e n are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for ,4-D oxane, 2-Butanone (MEK), 2-Hexanone, Acro e n are outs de contro m ts for samp e MC35558-2MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Bromomethane, Carbon d su f de, ,4-D oxane: 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
- V ny Acetate: 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:** MSU 058

- Samp e(s) MC35963-6MS, MC35963-6MSD 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: SO **Batch ID:** MSK2647

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35566-2MS, MC35566-2MSD 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
- MSK2647-BSD Recovery(s) for Acetone, V ny Acetate, V ny ch or de are outs de contro m ts
- B ank Sp ke Recovery(s) for V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for Acro e n, V ny Acetate 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 V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Carbon d su f de, V ny Acetate, V ny ch or de: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- RPD of MSK2647-BSD for Acetone: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Matrix: SO **Batch ID:** MSM25 2

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35568-4MS, MC35568-4MSD 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 GCMS By Method SW846 8260C

Matrix: SO **Batch ID:** MSM25_2

- B ank Sp ke Recovery(s) for Acro e n, V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,2,3-Tr ch orobenzene, ,2,4-Tr ch orobenzene, ,2,4-Tr methy benzene, ,3,5-Tr methy benzene, ,4-D ch orobenzene, 2,2-D ch oropropane, 2-Butanone (MEK), 2-Ch oroethy v ny ether, Acetone, Acro e n, Bromomethane, Ch oromethane, D ch orod f uoromethane, Hexach orobutad ene, Isopropy benzene, n-Buty benzene, n-Propy benzene, o-Ch oroto uene, p-Ch oroto uene, p-Isopropy to uene, sec-Buty benzene, tert-Buty benzene, Tr ch orof uoromethane, V ny Acetate, V ny ch or de 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-Tr methy benzene, ,2-D ch orobenzene, ,3,5-Tr methy benzene, ,3-D ch orobenzene, ,4-D ch orobenzene, 2-Hexanone, Acetone, Acro e n, Isopropy benzene, n-Buty benzene, n-Propy benzene, o-Ch oroto uene, p-Ch oroto uene, p-Isopropy to uene, sec-Buty benzene, tert-Buty benzene, Tr ch orof uoromethane, V ny Acetate, ,2,3-Tr ch orobenzene, ,2,4-Tr ch orobenzene, 2-Ch oroethy v ny ether, Hexach orobutad ene, Naphtha ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for ,2,3-Tr ch orobenzene, ,2,4-Tr ch orobenzene, 2-Ch oroethy v ny ether, Hexach orobutad ene, Naphtha ene are outs de contro m ts for samp e MC35568-4MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- acro e n, Bromomethane, 2,2-d ch oropropane,Tr ch orof uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC35568-4 for 2,2-D ch oropropane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP4 28

- 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) MC35568-4MS, MC35568-4MSD 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
- In t a ca brat on ver f cat on MSF34 7-ICV34 7 for Hexach orocyc opentad ene exc eed 30% D fference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: SO **Batch ID:** OP4 29

- 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) MC35568-4MS, MC35568-4MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3446-ICV3427 not assoc ate w th th s job

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 25

- 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) MC35700- 8MS, MC35700- 8MSD were used as the QC samp es nd cated

Matrix: SO **Batch ID:** OP4 83

- 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) MC35568-4MS, MC35568-4MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8015

Matrix: SO	Batch ID: GAB4690

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35568-4MS, MC35568-4MSD 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
- Ca brat on standard GAB4690-CC4654 ut zed the same f e as GAB469 -CC4654 does

Matrix: SO	Batch ID: GAB4692

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35568-3MS, MC35568-3MSD 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

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO	Batch ID: GN49345

- Samp e(s) MC35568-4DUP were used as the QC samp es for So ds, Percent

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(MC35568)

Summary of Hits

Job Number: MC35568
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/04/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35568-1	P93C-50-120414					
Benzene		10.1	0.034	0.023	mg/kg	SW846 8260C
sec-Butylbenzene		0.179 J	0.34	0.051	mg/kg	SW846 8260C
tert-Butylbenzene		0.153 J	0.34	0.014	mg/kg	SW846 8260C
p-Isopropyltoluene		0.0888 J	0.34	0.012	mg/kg	SW846 8260C
Total TIC, Volatile		15.9 J			mg/kg	
Phenol		0.527	0.29	0.017	mg/kg	SW846 8270D
Acenaphthene		0.0121	0.0059	0.0010	mg/kg	SW846 8270D BY SIM
Anthracene		0.0097	0.0059	0.0013	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0028 J	0.0059	0.0027	mg/kg	SW846 8270D BY SIM
Chrysene		0.0060	0.0059	0.0016	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0045 J	0.0059	0.0017	mg/kg	SW846 8270D BY SIM
Fluorene		0.0150	0.0059	0.0012	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		0.138	0.12	0.029	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.0409	0.0059	0.0012	mg/kg	SW846 8270D BY SIM
Pyrene		0.0159	0.0059	0.0018	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		142	13	1.9	mg/kg	SW846 8015
MC35568-2	P93C-50-120414-DUP					
Benzene		14.6	0.061	0.041	mg/kg	SW846 8260C
sec-Butylbenzene		0.200 J	0.61	0.090	mg/kg	SW846 8260C
tert-Butylbenzene		0.205 J	0.61	0.026	mg/kg	SW846 8260C
Isopropylbenzene		0.0411 J	0.61	0.020	mg/kg	SW846 8260C
p-Isopropyltoluene		0.107 J	0.61	0.021	mg/kg	SW846 8260C
n-Propylbenzene		0.0681 J	0.61	0.018	mg/kg	SW846 8260C
Total TIC, Volatile		19.4 J			mg/kg	
Phenol		0.557	0.29	0.017	mg/kg	SW846 8270D
Anthracene		0.0065	0.0058	0.0013	mg/kg	SW846 8270D BY SIM
Chrysene		0.0046 J	0.0058	0.0016	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0028 J	0.0058	0.0017	mg/kg	SW846 8270D BY SIM
Fluorene		0.0088	0.0058	0.0011	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		0.0747 J	0.12	0.029	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.0219	0.0058	0.0012	mg/kg	SW846 8270D BY SIM
Pyrene		0.0107	0.0058	0.0018	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		77.7	6.2	0.92	mg/kg	SW846 8015
MC35568-3	P93C-94-120414					
Benzene		0.0108	0.00054	0.00037	mg/kg	SW846 8260C
Carbon disulfide		0.00090 J	0.0054	0.00014	mg/kg	SW846 8260C
Toluene		0.0010 J	0.0054	0.00022	mg/kg	SW846 8260C
m,p-Xylene		0.00055 J	0.0022	0.00047	mg/kg	SW846 8260C
Xylene (total)		0.00055 J	0.0022	0.00024	mg/kg	SW846 8260C

Summary of Hits

Job Number: MC35568
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/04/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Anthracene		0.0020 J	0.0058	0.0013	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0315	0.0058	0.0027	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.0568	0.0058	0.0023	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0482	0.0058	0.0026	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0437	0.0058	0.0016	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0422	0.0058	0.0018	mg/kg	SW846 8270D BY SIM
Chrysene		0.0407	0.0058	0.0016	mg/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.0121	0.0058	0.0017	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0301	0.0058	0.0017	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0346	0.0058	0.0014	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.0070	0.0058	0.0012	mg/kg	SW846 8270D BY SIM
Pyrene		0.0265	0.0058	0.0018	mg/kg	SW846 8270D BY SIM
MC35568-4	**P93C-40-120414**					
Benzene		0.0044	0.00058	0.00039	mg/kg	SW846 8260C
Ethylbenzene		0.0011 J	0.0023	0.00080	mg/kg	SW846 8260C
Toluene		0.0013 J	0.0058	0.00024	mg/kg	SW846 8260C
Xylene (total)		0.00047 J	0.0023	0.00025	mg/kg	SW846 8260C
MC35568-5	**TB-120414-ST**					
No hits reported in this sample.						
MC35568-6	**TB-120414-HCL**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93C-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K84280.D	1	12/08/14	JM	n/a	n/a	MSK2647
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.6 g	10.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.68	0.19	mg/kg	
107-02-8	Acrolein	ND	1.7	0.60	mg/kg	
107-13-1	Acrylonitrile	ND	1.7	0.19	mg/kg	
71-43-2	Benzene	10.1	0.034	0.023	mg/kg	
108-86-1	Bromobenzene	ND	0.34	0.017	mg/kg	
74-97-5	Bromochloromethane	ND	0.34	0.023	mg/kg	
75-27-4	Bromodichloromethane	ND	0.14	0.014	mg/kg	
75-25-2	Bromoform	ND	0.14	0.024	mg/kg	
74-83-9	Bromomethane	ND	0.14	0.041	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.68	0.21	mg/kg	
104-51-8	n-Butylbenzene	ND	0.34	0.016	mg/kg	
135-98-8	sec-Butylbenzene	0.179	0.34	0.051	mg/kg	J
98-06-6	tert-Butylbenzene	0.153	0.34	0.014	mg/kg	J
75-15-0	Carbon disulfide [a]	ND	0.34	0.0089	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.14	0.015	mg/kg	
108-90-7	Chlorobenzene	ND	0.14	0.011	mg/kg	
75-00-3	Chloroethane	ND	0.34	0.051	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.34	0.085	mg/kg	
67-66-3	Chloroform	ND	0.14	0.011	mg/kg	
74-87-3	Chloromethane	ND	0.34	0.038	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.34	0.013	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.34	0.018	mg/kg	
124-48-1	Dibromochloromethane	ND	0.14	0.022	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.14	0.014	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.14	0.020	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.14	0.023	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.14	0.055	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.14	0.018	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.14	0.022	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.14	0.028	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.031	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.028	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.14	0.028	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.34	0.022	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.34	0.038	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.34	0.018	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.14	0.015	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.14	0.018	mg/kg	
123-91-1	1,4-Dioxane	ND	1.7	1.4	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.34	0.024	mg/kg	
100-41-4	Ethylbenzene	ND	0.14	0.047	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.34	0.039	mg/kg	
591-78-6	2-Hexanone	ND	0.68	0.051	mg/kg	
98-82-8	Isopropylbenzene	ND	0.34	0.011	mg/kg	
99-87-6	p-Isopropyltoluene	0.0888	0.34	0.012	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.14	0.012	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.34	0.037	mg/kg	
74-95-3	Methylene bromide	ND	0.34	0.031	mg/kg	
75-09-2	Methylene chloride	ND	0.14	0.036	mg/kg	
91-20-3	Naphthalene	ND	0.34	0.027	mg/kg	
103-65-1	n-Propylbenzene	ND	0.34	0.010	mg/kg	
100-42-5	Styrene	ND	0.34	0.012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.34	0.027	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.027	mg/kg	
127-18-4	Tetrachloroethene	ND	0.14	0.021	mg/kg	
108-88-3	Toluene	ND	0.34	0.014	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.34	0.029	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.34	0.035	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.015	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.039	mg/kg	
79-01-6	Trichloroethene	ND	0.14	0.017	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.14	0.027	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.34	0.019	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.34	0.097	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.34	0.10	mg/kg	
108-05-4	Vinyl Acetate [a]	ND	0.34	0.10	mg/kg	
75-01-4	Vinyl chloride [a]	ND	0.14	0.062	mg/kg	
	m,p-Xylene	ND	0.14	0.030	mg/kg	
95-47-6	o-Xylene	ND	0.14	0.019	mg/kg	
1330-20-7	Xylene (total)	ND	0.14	0.015	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
2051-30-1	Octane, 2,6-dimethyl-	13.94	2.3	mg/kg	JN
5911-04-6	Nonane, 3-methyl-	14.45	1.2	mg/kg	JN
1678-93-9	Cyclohexane, butyl-	15.54	1.6	mg/kg	JN
73105-67-6	1-Iodo-2-methylundecane	15.66	1.2	mg/kg	JN
13151-34-3	Decane, 3-methyl-	15.77	1.3	mg/kg	JN
493-02-7	Naphthalene, decahydro-, trans-	16.14	2.1	mg/kg	JN
1462-27-7	1-Butanone, 1-cyclohexyl-	16.81	1.9	mg/kg	JN
	Unknown 1,3-Cyclopentadiene	16.85	2.1	mg/kg	JN
17312-55-9	Decane, 3,8-dimethyl-	16.95	1	mg/kg	JN
19398-86-8	cis-3-Decene	17.91	1.2	mg/kg	JN
	Total TIC, Volatile		15.9	mg/kg	J

(a) Continuing Calibration 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78618.D	1	12/11/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.59	0.074	mg/kg	
95-57-8	2-Chlorophenol	ND	0.29	0.013	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.59	0.015	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.59	0.017	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.59	0.096	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.59	0.074	mg/kg	
95-48-7	2-Methylphenol	ND	0.59	0.023	mg/kg	
	3&4-Methylphenol	ND	0.59	0.029	mg/kg	
88-75-5	2-Nitrophenol	ND	0.59	0.016	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.59	0.042	mg/kg	
108-95-2	Phenol	0.527	0.29	0.017	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.59	0.015	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.59	0.015	mg/kg	
62-53-3	Aniline	ND	0.59	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	0.012	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.59	0.030	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.59	0.015	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	0.018	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	0.021	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	0.018	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.59	0.039	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.59	0.015	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	0.029	mg/kg	
132-64-9	Dibenzofuran	ND	0.12	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	0.031	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	0.0092	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.29	0.015	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	0.017	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	0.011	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.59	0.15	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	0.014	mg/kg	
78-59-1	Isophorone	ND	0.29	0.014	mg/kg	
88-74-4	2-Nitroaniline	ND	0.59	0.015	mg/kg	
99-09-2	3-Nitroaniline	ND	0.59	0.032	mg/kg	
100-01-6	4-Nitroaniline	ND	0.59	0.015	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	0.016	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	0.017	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	0.018	mg/kg	
110-86-1	Pyridine	ND	0.59	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	95%		30-130%
4165-62-2	Phenol-d5	103%		30-130%
118-79-6	2,4,6-Tribromophenol	80%		30-130%
4165-60-0	Nitrobenzene-d5	98%		30-130%
321-60-8	2-Fluorobiphenyl	93%		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	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93326.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.0121	0.0059	0.0010	mg/kg	
208-96-8	Acenaphthylene	ND	0.0059	0.00090	mg/kg	
120-12-7	Anthracene	0.0097	0.0059	0.0013	mg/kg	
56-55-3	Benzo(a)anthracene	0.0028	0.0059	0.0027	mg/kg	J
50-32-8	Benzo(a)pyrene	ND	0.0059	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0059	0.0026	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0059	0.0016	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0059	0.0018	mg/kg	
218-01-9	Chrysene	0.0060	0.0059	0.0016	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0059	0.0017	mg/kg	
206-44-0	Fluoranthene	0.0045	0.0059	0.0017	mg/kg	J
86-73-7	Fluorene	0.0150	0.0059	0.0012	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0059	0.0015	mg/kg	
90-12-0	1-Methylnaphthalene	0.138	0.12	0.029	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.12	0.029	mg/kg	
85-01-8	Phenanthrene	0.0409	0.0059	0.0012	mg/kg	
129-00-0	Pyrene	0.0159	0.0059	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	109%		30-130%
321-60-8	2-Fluorobiphenyl	105%		30-130%
1718-51-0	Terphenyl-d14	108%		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:	P93C-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61300.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0029	0.00086	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0029	0.00072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	130%		61-167%
460-00-4	Bromofluorobenzene (S)	119%		61-167%

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

J = Indicates 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-50-120414		
Lab Sample ID:	MC35568-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015	**Percent Solids:**	82.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87216.D	1	12/08/14	AF	n/a	n/a	GAB4690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.21 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	142	13	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		50-130%

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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K84281.D	1	12/08/14	JM	n/a	n/a	MSK2647
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.23 g	10.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1.2	0.34	mg/kg	
107-02-8	Acrolein	ND	3.0	1.1	mg/kg	
107-13-1	Acrylonitrile	ND	3.0	0.33	mg/kg	
71-43-2	Benzene	14.6	0.061	0.041	mg/kg	
108-86-1	Bromobenzene	ND	0.61	0.030	mg/kg	
74-97-5	Bromochloromethane	ND	0.61	0.042	mg/kg	
75-27-4	Bromodichloromethane	ND	0.24	0.025	mg/kg	
75-25-2	Bromoform	ND	0.24	0.043	mg/kg	
74-83-9	Bromomethane	ND	0.24	0.073	mg/kg	
78-93-3	2-Butanone (MEK)	ND	1.2	0.37	mg/kg	
104-51-8	n-Butylbenzene	ND	0.61	0.029	mg/kg	
135-98-8	sec-Butylbenzene	0.200	0.61	0.090	mg/kg	J
98-06-6	tert-Butylbenzene	0.205	0.61	0.026	mg/kg	J
75-15-0	Carbon disulfide [a]	ND	0.61	0.016	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.24	0.027	mg/kg	
108-90-7	Chlorobenzene	ND	0.24	0.019	mg/kg	
75-00-3	Chloroethane	ND	0.61	0.092	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.61	0.15	mg/kg	
67-66-3	Chloroform	ND	0.24	0.021	mg/kg	
74-87-3	Chloromethane	ND	0.61	0.068	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.61	0.023	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.61	0.032	mg/kg	
124-48-1	Dibromochloromethane	ND	0.24	0.039	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.24	0.026	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.24	0.037	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.24	0.042	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.24	0.098	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.24	0.032	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.24	0.039	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.24	0.050	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.24	0.055	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.24	0.051	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.24	0.051	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.61	0.040	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.61	0.068	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.61	0.032	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.24	0.027	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.24	0.032	mg/kg	
123-91-1	1,4-Dioxane	ND	3.0	2.4	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.61	0.043	mg/kg	
100-41-4	Ethylbenzene	ND	0.24	0.084	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.61	0.070	mg/kg	
591-78-6	2-Hexanone	ND	1.2	0.092	mg/kg	
98-82-8	Isopropylbenzene	0.0411	0.61	0.020	mg/kg	J
99-87-6	p-Isopropyltoluene	0.107	0.61	0.021	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.24	0.022	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.61	0.065	mg/kg	
74-95-3	Methylene bromide	ND	0.61	0.055	mg/kg	
75-09-2	Methylene chloride	ND	0.24	0.064	mg/kg	
91-20-3	Naphthalene	ND	0.61	0.048	mg/kg	
103-65-1	n-Propylbenzene	0.0681	0.61	0.018	mg/kg	J
100-42-5	Styrene	ND	0.61	0.021	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.61	0.049	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.24	0.048	mg/kg	
127-18-4	Tetrachloroethene	ND	0.24	0.038	mg/kg	
108-88-3	Toluene	ND	0.61	0.025	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.61	0.052	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	0.062	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.24	0.026	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.24	0.070	mg/kg	
79-01-6	Trichloroethene	ND	0.24	0.030	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.24	0.048	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.61	0.035	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.61	0.17	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	0.18	mg/kg	
108-05-4	Vinyl Acetate [a]	ND	0.61	0.19	mg/kg	
75-01-4	Vinyl chloride [a]	ND	0.24	0.11	mg/kg	
	m,p-Xylene	ND	0.24	0.053	mg/kg	
95-47-6	o-Xylene	ND	0.24	0.034	mg/kg	
1330-20-7	Xylene (total)	ND	0.24	0.027	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
74645-86-6	2-Decene, 5-methyl-, (Z)-	12.98	1.5	mg/kg	JN
19489-10-2	cis-1-Ethyl-3-methyl-cyclohexane	13.48	1.4	mg/kg	JN
2051-30-1	Octane, 2,6-dimethyl-	13.94	3.4	mg/kg	JN
17312-65-1	Undecane, 3,3-dimethyl-	15.16	3.3	mg/kg	JN
1678-93-9	Cyclohexane, butyl-	15.54	1.7	mg/kg	JN
13151-34-3	Decane, 3-methyl-	15.77	1.4	mg/kg	JN
91-17-8	Naphthalene, decahydro-	16.14	2.6	mg/kg	JN
696-29-7	Cyclohexane, (1-methylethyl)-	16.81	2.2	mg/kg	JN
17301-23-4	Undecane, 2,6-dimethyl-	17.43	1.9	mg/kg	JN
	Total TIC, Volatile		19.4	mg/kg	J

(a) Continuing Calibration 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78619.D	1	12/11/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.58	0.073	mg/kg	
95-57-8	2-Chlorophenol	ND	0.29	0.013	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.58	0.015	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.58	0.017	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.58	0.095	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.58	0.073	mg/kg	
95-48-7	2-Methylphenol	ND	0.58	0.023	mg/kg	
	3&4-Methylphenol	ND	0.58	0.028	mg/kg	
88-75-5	2-Nitrophenol	ND	0.58	0.016	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.58	0.041	mg/kg	
108-95-2	Phenol	0.557	0.29	0.017	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.58	0.015	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.58	0.014	mg/kg	
62-53-3	Aniline	ND	0.58	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	0.012	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.58	0.029	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.58	0.015	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	0.018	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	0.021	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	0.018	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.58	0.039	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.58	0.015	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	0.029	mg/kg	
132-64-9	Dibenzofuran	ND	0.12	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	0.031	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	0.0091	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.29	0.015	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	0.017	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	0.011	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.58	0.15	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	0.014	mg/kg	
78-59-1	Isophorone	ND	0.29	0.013	mg/kg	
88-74-4	2-Nitroaniline	ND	0.58	0.015	mg/kg	
99-09-2	3-Nitroaniline	ND	0.58	0.032	mg/kg	
100-01-6	4-Nitroaniline	ND	0.58	0.015	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	0.016	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	0.017	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	0.018	mg/kg	
110-86-1	Pyridine	ND	0.58	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%		30-130%
4165-62-2	Phenol-d5	92%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	89%		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	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93327.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0058	0.0010	mg/kg	
208-96-8	Acenaphthylene	ND	0.0058	0.00089	mg/kg	
120-12-7	Anthracene	0.0065	0.0058	0.0013	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0058	0.0027	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0058	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0058	0.0026	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0058	0.0016	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0058	0.0018	mg/kg	
218-01-9	Chrysene	0.0046	0.0058	0.0016	mg/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0058	0.0017	mg/kg	
206-44-0	Fluoranthene	0.0028	0.0058	0.0017	mg/kg	J
86-73-7	Fluorene	0.0088	0.0058	0.0011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0058	0.0014	mg/kg	
90-12-0	1-Methylnaphthalene	0.0747	0.12	0.029	mg/kg	J
91-57-6	2-Methylnaphthalene	ND	0.12	0.029	mg/kg	
85-01-8	Phenanthrene	0.0219	0.0058	0.0012	mg/kg	
129-00-0	Pyrene	0.0107	0.0058	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	102%		30-130%
321-60-8	2-Fluorobiphenyl	99%		30-130%
1718-51-0	Terphenyl-d14	104%		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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61301.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0029	0.00085	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0029	0.00071	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	141%		61-167%
460-00-4	Bromofluorobenzene (S)	124%		61-167%

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

J = Indicates 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-50-120414-DUP		
Lab Sample ID:	MC35568-2	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015	**Percent Solids:**	85.0
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87217.D	1	12/08/14	AF	n/a	n/a	GAB4690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.0 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	77.7	6.2	0.92	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	92%		50-130%

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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70655.D	1	12/16/14	AMY	n/a	n/a	MSM2512
Run #2							

	Initial Weight	Final Volume
Run #1	5.36 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.011	0.0030	mg/kg	
107-02-8	Acrolein [a]	ND	0.027	0.0095	mg/kg	
107-13-1	Acrylonitrile	ND	0.027	0.0030	mg/kg	
71-43-2	Benzene	0.0108	0.00054	0.00037	mg/kg	
108-86-1	Bromobenzene	ND	0.0054	0.00027	mg/kg	
74-97-5	Bromochloromethane	ND	0.0054	0.00037	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0022	0.00023	mg/kg	
75-25-2	Bromoform	ND	0.0022	0.00038	mg/kg	
74-83-9	Bromomethane [a]	ND	0.0022	0.00065	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	0.0033	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0054	0.00026	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0054	0.00081	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0054	0.00023	mg/kg	
75-15-0	Carbon disulfide	0.00090	0.0054	0.00014	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0022	0.00024	mg/kg	
108-90-7	Chlorobenzene	ND	0.0022	0.00017	mg/kg	
75-00-3	Chloroethane	ND	0.0054	0.00082	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.0054	0.0014	mg/kg	
67-66-3	Chloroform	ND	0.0022	0.00018	mg/kg	
74-87-3	Chloromethane	ND	0.0054	0.00061	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0054	0.00021	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0054	0.00029	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0022	0.00035	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0022	0.00023	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0022	0.00033	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0022	0.00037	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0022	0.00088	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0022	0.00029	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0022	0.00035	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0022	0.00045	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0022	0.00049	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0022	0.00045	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0022	0.00045	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0054	0.00035	mg/kg	
594-20-7	2,2-Dichloropropane [a]	ND	0.0054	0.00061	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0054	0.00029	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0022	0.00025	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0022	0.00028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.027	0.022	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0054	0.00039	mg/kg	
100-41-4	Ethylbenzene	ND	0.0022	0.00075	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0054	0.00062	mg/kg	
591-78-6	2-Hexanone	ND	0.011	0.00082	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0054	0.00018	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0054	0.00019	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0022	0.00020	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0054	0.00058	mg/kg	
74-95-3	Methylene bromide	ND	0.0054	0.00050	mg/kg	
75-09-2	Methylene chloride	ND	0.0022	0.00058	mg/kg	
91-20-3	Naphthalene	ND	0.0054	0.00043	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0054	0.00016	mg/kg	
100-42-5	Styrene	ND	0.0054	0.00018	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0054	0.00043	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0022	0.00043	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0022	0.00034	mg/kg	
108-88-3	Toluene	0.0010	0.0054	0.00022	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0054	0.00046	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0054	0.00055	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0022	0.00024	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0022	0.00062	mg/kg	
79-01-6	Trichloroethene	ND	0.0022	0.00027	mg/kg	
75-69-4	Trichlorofluoromethane [a]	ND	0.0022	0.00043	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0054	0.00031	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0054	0.0016	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0054	0.0016	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0054	0.0017	mg/kg	
75-01-4	Vinyl chloride	ND	0.0022	0.00099	mg/kg	
	m,p-Xylene	0.00055	0.0022	0.00047	mg/kg	J
95-47-6	o-Xylene	ND	0.0022	0.00031	mg/kg	
1330-20-7	Xylene (total)	0.00055	0.0022	0.00024	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	98%		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	mg/kg	

(a) Continuing Calibration 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78620.D	1	12/11/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.58	0.072	mg/kg	
95-57-8	2-Chlorophenol	ND	0.29	0.013	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.58	0.015	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.58	0.017	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.58	0.094	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.58	0.072	mg/kg	
95-48-7	2-Methylphenol	ND	0.58	0.023	mg/kg	
	3&4-Methylphenol	ND	0.58	0.028	mg/kg	
88-75-5	2-Nitrophenol	ND	0.58	0.015	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.58	0.041	mg/kg	
108-95-2	Phenol	ND	0.29	0.016	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.58	0.014	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.58	0.014	mg/kg	
62-53-3	Aniline	ND	0.58	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	0.012	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.58	0.029	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.58	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	0.018	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	0.021	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	0.018	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.58	0.039	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.58	0.014	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	0.029	mg/kg	
132-64-9	Dibenzofuran	ND	0.12	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	0.031	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	0.0090	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.29	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	0.017	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	0.011	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.58	0.14	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	0.014	mg/kg	
78-59-1	Isophorone	ND	0.29	0.013	mg/kg	
88-74-4	2-Nitroaniline	ND	0.58	0.014	mg/kg	
99-09-2	3-Nitroaniline	ND	0.58	0.032	mg/kg	
100-01-6	4-Nitroaniline	ND	0.58	0.014	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	0.016	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	0.017	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	0.017	mg/kg	
110-86-1	Pyridine	ND	0.58	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	91%		30-130%
4165-62-2	Phenol-d5	93%		30-130%
118-79-6	2,4,6-Tribromophenol	96%		30-130%
4165-60-0	Nitrobenzene-d5	95%		30-130%
321-60-8	2-Fluorobiphenyl	91%		30-130%
1718-51-0	Terphenyl-d14	105%		30-130%

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93328.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0058	0.0010	mg/kg	
208-96-8	Acenaphthylene	ND	0.0058	0.00088	mg/kg	
120-12-7	Anthracene	0.0020	0.0058	0.0013	mg/kg	J
56-55-3	Benzo(a)anthracene	0.0315	0.0058	0.0027	mg/kg	
50-32-8	Benzo(a)pyrene	0.0568	0.0058	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0482	0.0058	0.0026	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0437	0.0058	0.0016	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0422	0.0058	0.0018	mg/kg	
218-01-9	Chrysene	0.0407	0.0058	0.0016	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0121	0.0058	0.0017	mg/kg	
206-44-0	Fluoranthene	0.0301	0.0058	0.0017	mg/kg	
86-73-7	Fluorene	ND	0.0058	0.0011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0346	0.0058	0.0014	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.12	0.029	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.12	0.029	mg/kg	
85-01-8	Phenanthrene	0.0070	0.0058	0.0012	mg/kg	
129-00-0	Pyrene	0.0265	0.0058	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	102%		30-130%
321-60-8	2-Fluorobiphenyl	101%		30-130%
1718-51-0	Terphenyl-d14	106%		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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61302.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0028	0.00083	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0028	0.00070	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	142%		61-167%
460-00-4	Bromofluorobenzene (S)	124%		61-167%

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

J = Indicates 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-94-120414		
Lab Sample ID:	MC35568-3	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015	**Percent Solids:**	86.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87229.D	1	12/09/14	AF	n/a	n/a	GAB4692
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.8 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	6.2	0.91	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	92%		50-130%

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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70656.D	1	12/16/14	AMY	n/a	n/a	MSM2512
Run #2							

	Initial Weight	Final Volume
Run #1	4.59 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.012	0.0033	mg/kg	
107-02-8	Acrolein [a]	ND	0.029	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.029	0.0032	mg/kg	
71-43-2	Benzene	0.0044	0.00058	0.00039	mg/kg	
108-86-1	Bromobenzene	ND	0.0058	0.00029	mg/kg	
74-97-5	Bromochloromethane	ND	0.0058	0.00040	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	0.00024	mg/kg	
75-25-2	Bromoform	ND	0.0023	0.00041	mg/kg	
74-83-9	Bromomethane [a]	ND	0.0023	0.00070	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.012	0.0036	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0058	0.00028	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0058	0.00087	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0058	0.00024	mg/kg	
75-15-0	Carbon disulfide	ND	0.0058	0.00015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	0.00026	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	0.00018	mg/kg	
75-00-3	Chloroethane	ND	0.0058	0.00088	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.0058	0.0015	mg/kg	
67-66-3	Chloroform	ND	0.0023	0.00020	mg/kg	
74-87-3	Chloromethane	ND	0.0058	0.00066	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0058	0.00022	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0058	0.00031	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	0.00037	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0023	0.00025	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0023	0.00035	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0023	0.00040	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0023	0.00094	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0023	0.00031	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0023	0.00037	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0023	0.00048	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0023	0.00052	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0023	0.00048	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0023	0.00049	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0058	0.00038	mg/kg	
594-20-7	2,2-Dichloropropane [a]	ND	0.0058	0.00065	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0058	0.00031	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	0.00026	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	0.00031	mg/kg	
123-91-1	1,4-Dioxane	ND	0.029	0.023	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0058	0.00041	mg/kg	
100-41-4	Ethylbenzene	0.0011	0.0023	0.00080	mg/kg	J
87-68-3	Hexachlorobutadiene	ND	0.0058	0.00067	mg/kg	
591-78-6	2-Hexanone	ND	0.012	0.00088	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0058	0.00019	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0058	0.00020	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0023	0.00021	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0058	0.00063	mg/kg	
74-95-3	Methylene bromide	ND	0.0058	0.00053	mg/kg	
75-09-2	Methylene chloride	ND	0.0023	0.00062	mg/kg	
91-20-3	Naphthalene	ND	0.0058	0.00046	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0058	0.00018	mg/kg	
100-42-5	Styrene	ND	0.0058	0.00020	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0058	0.00047	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	0.00046	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	0.00036	mg/kg	
108-88-3	Toluene	0.0013	0.0058	0.00024	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0058	0.00050	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0058	0.00059	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	0.00025	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	0.00067	mg/kg	
79-01-6	Trichloroethene	ND	0.0023	0.00028	mg/kg	
75-69-4	Trichlorofluoromethane [a]	ND	0.0023	0.00046	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0058	0.00033	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0058	0.0017	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0058	0.0018	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0058	0.0018	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	0.0011	mg/kg	
	m,p-Xylene	ND	0.0023	0.00051	mg/kg	
95-47-6	o-Xylene	ND	0.0023	0.00033	mg/kg	
1330-20-7	Xylene (total)	0.00047	0.0023	0.00025	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	98%		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	mg/kg	

(a) Continuing Calibration 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78613.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.53	0.066	mg/kg	
95-57-8	2-Chlorophenol	ND	0.27	0.012	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.53	0.013	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.53	0.015	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.53	0.087	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.53	0.066	mg/kg	
95-48-7	2-Methylphenol	ND	0.53	0.021	mg/kg	
	3&4-Methylphenol	ND	0.53	0.026	mg/kg	
88-75-5	2-Nitrophenol	ND	0.53	0.014	mg/kg	
100-02-7	4-Nitrophenol	ND	1.1	0.10	mg/kg	
87-86-5	Pentachlorophenol	ND	0.53	0.037	mg/kg	
108-95-2	Phenol	ND	0.27	0.015	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.53	0.013	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.53	0.013	mg/kg	
62-53-3	Aniline	ND	0.53	0.027	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.27	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.27	0.011	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.53	0.027	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.27	0.014	mg/kg	
106-47-8	4-Chloroaniline	ND	0.53	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.27	0.012	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.27	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.27	0.019	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.27	0.016	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.27	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.53	0.036	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.53	0.013	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.27	0.027	mg/kg	
132-64-9	Dibenzofuran	ND	0.11	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.27	0.028	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.27	0.0083	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.27	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.27	0.015	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.27	0.0098	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.27	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.53	0.13	mg/kg	
67-72-1	Hexachloroethane	ND	0.27	0.013	mg/kg	
78-59-1	Isophorone	ND	0.27	0.012	mg/kg	
88-74-4	2-Nitroaniline	ND	0.53	0.013	mg/kg	
99-09-2	3-Nitroaniline	ND	0.53	0.029	mg/kg	
100-01-6	4-Nitroaniline	ND	0.53	0.013	mg/kg	
98-95-3	Nitrobenzene	ND	0.27	0.014	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.27	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.27	0.015	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.27	0.016	mg/kg	
110-86-1	Pyridine	ND	0.53	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		30-130%
4165-62-2	Phenol-d5	92%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	99%		30-130%

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93322.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0053	0.00092	mg/kg	
208-96-8	Acenaphthylene	ND	0.0053	0.00081	mg/kg	
120-12-7	Anthracene	ND	0.0053	0.0012	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0053	0.0024	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0053	0.0021	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0053	0.0024	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0053	0.0014	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0053	0.0016	mg/kg	
218-01-9	Chrysene	ND	0.0053	0.0014	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0053	0.0015	mg/kg	
206-44-0	Fluoranthene	ND	0.0053	0.0016	mg/kg	
86-73-7	Fluorene	ND	0.0053	0.0010	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0053	0.0013	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.11	0.027	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.11	0.027	mg/kg	
85-01-8	Phenanthrene	ND	0.0053	0.0011	mg/kg	
129-00-0	Pyrene	ND	0.0053	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	98%		30-130%
321-60-8	2-Fluorobiphenyl	97%		30-130%
1718-51-0	Terphenyl-d14	102%		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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61299.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0026	0.00077	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0026	0.00064	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	131%		61-167%
460-00-4	Bromofluorobenzene (S)	132%		61-167%

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

J = Indicates 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-40-120414		
Lab Sample ID:	MC35568-4	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015	**Percent Solids:**	93.8
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87209.D	1	12/08/14	AF	n/a	n/a	GAB4690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.54 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	12	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	93%		50-130%

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:	TB-120414-ST		
Lab Sample ID:	MC35568-5	**Date Sampled:**	12/04/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/05/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ92501.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	82%		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

Report of Analysis

Client Sample ID:	TB-120414-HCL		
Lab Sample ID:	MC35568-6	**Date Sampled:**	12/04/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U24730.D	1	12/18/14	GK	n/a	n/a	MSU1056
Run #2	U24824.D	1	12/20/14	AMY	n/a	n/a	MSU1058

	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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND [b]	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-120414-HCL		
Lab Sample ID:	MC35568-6	**Date Sampled:**	12/04/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate [c]	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-120414-HCL		
Lab Sample ID:	MC35568-6	**Date Sampled:**	12/04/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/05/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	84%	70-130%
2037-26-5	Toluene-D8	93%	92%	70-130%
460-00-4	4-Bromofluorobenzene	101%	105%	70-130%

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

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

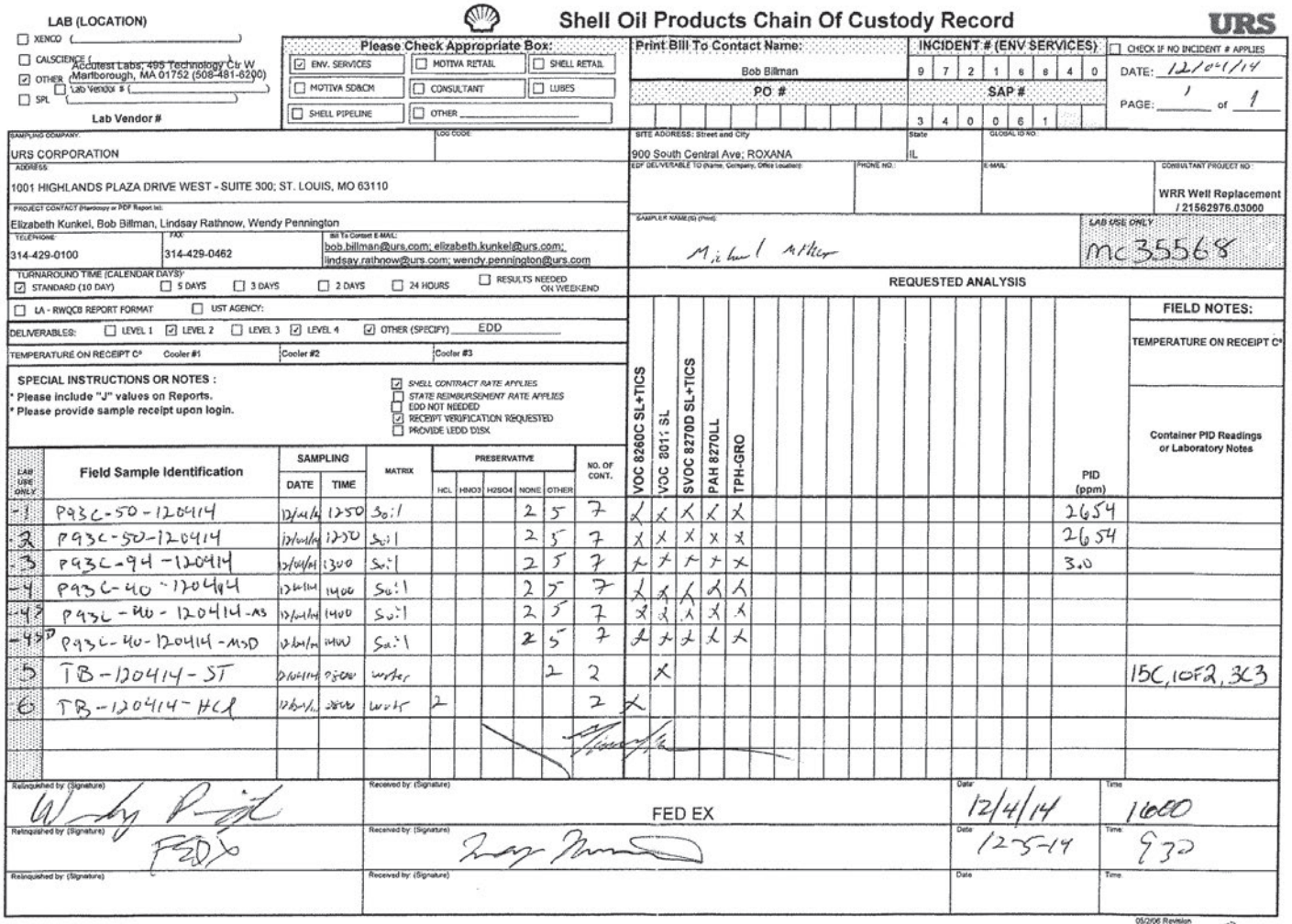
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ SPL (_____)
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 8 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12/04/14
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.: WRR Well Replacement / 21562976.03000
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow, Wendy Pennington
SAMPLER NAME(S) (Print): Michael Miller
LAB USE ONLY: MC35568
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com; wendy.pennington@urs.com

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	TPH-GRO	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P93C-50-120414	12/4/14	1250	Soil				2	5	7	X	X	X	X	X	2654	
2	P93C-50-120414	12/4/14	1250	Soil				2	5	7	X	X	X	X	X	2654	
3	P93C-94-120414	12/4/14	1300	Soil				2	5	7	X	X	X	X	X	3.0	
-4	P93C-40-120414	12/4/14	1400	Soil				2	5	7	X	X	X	X	X		
-4S	P93C-40-120414-MS	12/4/14	1400	Soil				2	5	7	X	X	X	X	X		
-4SD	P93C-40-120414-MSD	12/4/14	1400	Soil				2	5	7	X	X	X	X	X		
5	TB-120414-ST	12/4/14	0500	water					2	2		X					15C, 10F2, 3C3
6	TB-120414-HCl	12/4/14	0500	water	2					2	X						

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FED EX	12/4/14	1600
FEDX		12-5-14	930

05/2006 Revision

3.5°C

5.1 5

MC35568: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC35568 **Client:** URS **Project:** 900SCA

Date / Time Received: 12/5/2014 9 30 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (3 3/3 3)

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. Thermometer D:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

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 01752
www/accutest.com

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC35568

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35568-1 Collected: 04-DEC-14 12:50 By: MM			Received: 05-DEC-14 By: AF			
P93C-50-120414						
MC35568-1	SM 2540G-97 MOD	05-DEC-14	CF			%SOL
MC35568-1	SW846 8015	08-DEC-14 15:40	AF			V8015GRO
MC35568-1	SW846 8270D BY SIM	08-DEC-14 16:23	MR	05-DEC-14	PA	B8270SIMSL
MC35568-1	SW846 8260C	08-DEC-14 20:25	JM			V8260SL+
MC35568-1	SW846 8270D	11-DEC-14 00:27	KD	05-DEC-14	PA	AB8270SL+
MC35568-1	SW846 8011	11-DEC-14 14:08	NK	10-DEC-14	AZ	V8011SL
MC35568-2 Collected: 04-DEC-14 12:50 By: MM			Received: 05-DEC-14 By: AF			
P93C-50-120414-DUP						
MC35568-2	SM 2540G-97 MOD	05-DEC-14	CF			%SOL
MC35568-2	SW846 8015	08-DEC-14 16:17	AF			V8015GRO
MC35568-2	SW846 8270D BY SIM	08-DEC-14 16:47	MR	05-DEC-14	PA	B8270SIMSL
MC35568-2	SW846 8260C	08-DEC-14 20:53	JM			V8260SL+
MC35568-2	SW846 8270D	11-DEC-14 00:50	KD	05-DEC-14	PA	AB8270SL+
MC35568-2	SW846 8011	11-DEC-14 14:29	NK	10-DEC-14	AZ	V8011SL
MC35568-3 Collected: 04-DEC-14 13:00 By: MM			Received: 05-DEC-14 By: AF			
P93C-94-120414						
MC35568-3	SM 2540G-97 MOD	05-DEC-14	CF			%SOL
MC35568-3	SW846 8270D BY SIM	08-DEC-14 17:10	MR	05-DEC-14	PA	B8270SIMSL
MC35568-3	SW846 8015	09-DEC-14 10:24	AF			V8015GRO
MC35568-3	SW846 8270D	11-DEC-14 01:13	KD	05-DEC-14	PA	AB8270SL+
MC35568-3	SW846 8011	11-DEC-14 14:51	NK	10-DEC-14	AZ	V8011SL
MC35568-3	SW846 8260C	16-DEC-14 11:33	AMY			V8260SL+
MC35568-4 Collected: 04-DEC-14 14:00 By: MM			Received: 05-DEC-14 By: AF			
P93C-40-120414						
MC35568-4	SM 2540G-97 MOD	05-DEC-14	CF			%SOL
MC35568-4	SW846 8015	08-DEC-14 11:21	AF			V8015GRO
MC35568-4	SW846 8270D BY SIM	08-DEC-14 14:49	MR	05-DEC-14	PA	B8270SIMSL
MC35568-4	SW846 8270D	10-DEC-14 22:31	KD	05-DEC-14	PA	AB8270SL+
MC35568-4	SW846 8011	11-DEC-14 13:47	NK	10-DEC-14	AZ	V8011SL
MC35568-4	SW846 8260C	16-DEC-14 12:03	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC35568

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35568-5 Collected: 04-DEC-14 08:00 By: MM Received: 05-DEC-14 By: AF TB-120414-ST						
MC35568-5	SW846 8011	15-DEC-14 19:45	NK	15-DEC-14	MT	V8011SL
MC35568-6 Collected: 04-DEC-14 08:00 By: MM Received: 05-DEC-14 By: AF TB-120414-HCL						
MC35568-6	SW846 8260C	18-DEC-14 11:58	GK			V8260SL+
MC35568-6	SW846 8260C	20-DEC-14 18:58	AMY			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35568-1.1	Walk In Ref #9	Crystall Woodruff	12/05/14 17:29	Retrieve from Storage
MC35568-1.1	Crystall Woodruff	Walk In Ref #9	12/06/14 08:38	Return to Storage
MC35568-1.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35568-1.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35568-1.1	Scott Parsick		02/05/15 11:22	Disposed
MC35568-1.5	VOC Ref #10	Anthony Franciosa	12/08/14 09:05	Retrieve from Storage
MC35568-1.5	Anthony Franciosa	GCAB	12/08/14 09:05	Load on Instrument
MC35568-1.5	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35568-1.5	Anthony Franciosa	VOC Ref #10	12/09/14 08:10	Return to Storage
MC35568-1.5	Scott Parsick		02/05/15 11:22	Disposed
MC35568-1.7	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35568-1.7	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35568-1.7	VOC Ref #10	Jaime Maslowski	12/08/14 11:26	Retrieve from Storage
MC35568-1.7	Jaime Maslowski	VOC Ref #10	12/10/14 08:54	Return to Storage
MC35568-1.7	Scott Parsick		02/05/15 11:22	Disposed
MC35568-2.1	Walk In Ref #9	Crystall Woodruff	12/05/14 17:29	Retrieve from Storage
MC35568-2.1	Crystall Woodruff	Walk In Ref #9	12/06/14 08:38	Return to Storage
MC35568-2.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35568-2.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35568-2.1	Scott Parsick		02/05/15 11:22	Disposed
MC35568-2.5	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35568-2.5	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35568-2.5	VOC Ref #10	Jaime Maslowski	12/08/14 11:26	Retrieve from Storage
MC35568-2.5	Jaime Maslowski	VOC Ref #10	12/10/14 08:54	Return to Storage
MC35568-2.5	Scott Parsick		02/05/15 11:22	Disposed
MC35568-2.6	VOC Ref #10	Anthony Franciosa	12/08/14 09:05	Retrieve from Storage
MC35568-2.6	Anthony Franciosa	GCAB	12/08/14 09:05	Load on Instrument
MC35568-2.6	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35568-2.6	Anthony Franciosa	VOC Ref #10	12/09/14 08:10	Return to Storage
MC35568-2.6	Scott Parsick		02/05/15 11:22	Disposed
MC35568-3.1	Walk In Ref #9	Crystall Woodruff	12/05/14 17:29	Retrieve from Storage
MC35568-3.1	Crystall Woodruff	Walk In Ref #9	12/06/14 08:38	Return to Storage
MC35568-3.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35568-3.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35568-3.1	Scott Parsick		02/05/15 11:22	Disposed
MC35568-3.3	VOC Ref #10	Amy Min Yang	12/16/14 10:09	Retrieve from Storage
MC35568-3.3	Amy Min Yang	GCMSM	12/16/14 10:09	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35568-3.3	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35568-3.3	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35568-3.3	Scott Parsick		02/05/15 11:22	Disposed
MC35568-3.6	VOC Ref #10	Anthony Franciosa	12/08/14 09:05	Retrieve from Storage
MC35568-3.6	Anthony Franciosa	GCAB	12/08/14 09:05	Load on Instrument
MC35568-3.6	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35568-3.6	Anthony Franciosa	VOC Ref #10	12/09/14 08:10	Return to Storage
MC35568-3.6	Scott Parsick		02/05/15 11:22	Disposed
MC35568-3.7	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35568-3.7	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35568-3.7	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.1	Walk In Ref #9	Crystall Woodruff	12/05/14 17:29	Retrieve from Storage
MC35568-4.1	Crystall Woodruff	Walk In Ref #9	12/06/14 08:38	Return to Storage
MC35568-4.1	Walk In Ref #9	Alireza Zeighami	12/10/14 07:08	Retrieve from Storage
MC35568-4.1	Alireza Zeighami	Walk In Ref #9	12/10/14 08:43	Return to Storage
MC35568-4.1	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.8	VOC Ref #10	Amy Min Yang	12/16/14 10:09	Retrieve from Storage
MC35568-4.8	Amy Min Yang	GCMSM	12/16/14 10:09	Load on Instrument
MC35568-4.8	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35568-4.8	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35568-4.8	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.9	VOC Ref #10	Amy Min Yang	12/16/14 10:09	Retrieve from Storage
MC35568-4.9	Amy Min Yang	GCMSM	12/16/14 10:09	Load on Instrument
MC35568-4.9	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35568-4.9	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35568-4.9	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.11	VOC Ref #10	Amy Min Yang	12/16/14 15:06	Retrieve from Storage
MC35568-4.11	Amy Min Yang	GCMSM	12/16/14 15:06	Load on Instrument
MC35568-4.11	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35568-4.11	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35568-4.11	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.12	VOC Ref #10	Amy Min Yang	12/16/14 10:09	Retrieve from Storage
MC35568-4.12	Amy Min Yang	GCMSM	12/16/14 10:09	Load on Instrument
MC35568-4.12	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35568-4.12	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35568-4.12	Scott Parsick		02/05/15 11:22	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35568-4.14	VOC Ref #10	Anthony Franciosa	12/08/14 09:05	Retrieve from Storage
MC35568-4.14	Anthony Franciosa	GCAB	12/08/14 09:05	Load on Instrument
MC35568-4.14	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35568-4.14	Anthony Franciosa	VOC Ref #10	12/09/14 08:10	Return to Storage
MC35568-4.14	Scott Parsick		02/05/15 11:22	Disposed
MC35568-4.17	VOC Ref #10	Jaime Maslowski	12/05/14 15:54	Retrieve from Storage
MC35568-4.17	Jaime Maslowski	VOC Ref #10	12/08/14 08:48	Return to Storage
MC35568-4.17	Scott Parsick		02/05/15 11:22	Disposed
MC35568-5.1	VOC Ref #3	Marc Tahtamoni	12/11/14 19:28	Retrieve from Storage
MC35568-5.1	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35568-5.2	VOC Ref #3	Marc Tahtamoni	12/15/14 14:04	Retrieve from Storage
MC35568-5.2	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35568-6.1	VOC Ref #3	Gary Krasinski	12/18/14 11:06	Retrieve from Storage
MC35568-6.1	Gary Krasinski	GCMSU	12/18/14 11:06	Load on Instrument
MC35568-6.1	GCMSU	Gary Krasinski	12/19/14 08:55	Unload from Instrument
MC35568-6.1	Gary Krasinski	VOC Ref #3	12/19/14 08:55	Return to Storage
MC35568-6.1	VOC Ref #3	Amy Min Yang	12/20/14 17:35	Retrieve from Storage
MC35568-6.1	Amy Min Yang	GCMSU	12/20/14 17:35	Load on Instrument
MC35568-6.1	GCMSU	Gary Krasinski	12/22/14 09:24	Unload from Instrument
MC35568-6.1	Gary Krasinski	VOC Ref #3	12/22/14 09:25	Return to Storage
MC35568-6.1	Scott Parsick		02/05/15 11:22	Disposed
MC35568-6.2	VOC Ref #3	Anthony Franciosa	12/08/14 09:06	Retrieve from Storage
MC35568-6.2	Anthony Franciosa	GCAB	12/08/14 09:06	Load on Instrument
MC35568-6.2	GCAB	Anthony Franciosa	12/09/14 08:10	Unload from Instrument
MC35568-6.2	Anthony Franciosa	VOC Ref #3	12/09/14 08:10	Return to Storage
MC35568-6.2	Scott Parsick		02/05/15 11:22	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	140	ug/kg	
107-02-8	Acrolein	ND	1300	440	ug/kg	
107-13-1	Acrylonitrile	ND	1300	140	ug/kg	
71-43-2	Benzene	ND	25	17	ug/kg	
108-86-1	Bromobenzene	ND	250	13	ug/kg	
74-97-5	Bromochloromethane	ND	250	17	ug/kg	
75-27-4	Bromodichloromethane	ND	100	10	ug/kg	
75-25-2	Bromoform	ND	100	18	ug/kg	
74-83-9	Bromomethane	ND	100	30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	150	ug/kg	
104-51-8	n-Butylbenzene	ND	250	12	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	37	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	11	ug/kg	
75-15-0	Carbon disulfide	ND	250	6.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	11	ug/kg	
108-90-7	Chlorobenzene	ND	100	7.9	ug/kg	
75-00-3	Chloroethane	ND	250	38	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/kg	
67-66-3	Chloroform	ND	100	8.5	ug/kg	
74-87-3	Chloromethane	ND	250	28	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	9.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	13	ug/kg	
124-48-1	Dibromochloromethane	ND	100	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	100	11	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	100	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	100	17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	100	40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	100	13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	100	21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	100	23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	100	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	16	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	28	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	13	ug/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	100	11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	100	13	ug/kg	
123-91-1	1,4-Dioxane	ND	1300	1000	ug/kg	
97-63-2	Ethyl methacrylate	ND	250	18	ug/kg	
100-41-4	Ethylbenzene	ND	100	34	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	29	ug/kg	
591-78-6	2-Hexanone	ND	500	38	ug/kg	
98-82-8	Isopropylbenzene	ND	250	8.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	8.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	9.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	27	ug/kg	
74-95-3	Methylene bromide	ND	250	23	ug/kg	
75-09-2	Methylene chloride	ND	100	27	ug/kg	
91-20-3	Naphthalene	ND	250	20	ug/kg	
103-65-1	n-Propylbenzene	ND	250	7.6	ug/kg	
100-42-5	Styrene	ND	250	8.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/kg	
127-18-4	Tetrachloroethene	ND	100	16	ug/kg	
108-88-3	Toluene	ND	250	10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	29	ug/kg	
79-01-6	Trichloroethene	ND	100	12	ug/kg	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	14	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	76	ug/kg	
108-05-4	Vinyl Acetate	ND	250	77	ug/kg	
75-01-4	Vinyl chloride	ND	100	45	ug/kg	
	m,p-Xylene	ND	100	22	ug/kg	
95-47-6	o-Xylene	ND	100	14	ug/kg	
1330-20-7	Xylene (total)	ND	100	11	ug/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-MB	K84261.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	122%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

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

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-MB	M70653.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/kg	
107-02-8	Acrolein	ND	25	8.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	2.7	ug/kg	
71-43-2	Benzene	ND	0.50	0.34	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.21	ug/kg	
75-25-2	Bromoform	ND	2.0	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.24	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.75	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.76	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/kg	
67-66-3	Chloroform	ND	2.0	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.56	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.19	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.27	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.81	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.33	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.56	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.26	ug/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-MB	M70653.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.26	ug/kg	
123-91-1	1,4-Dioxane	ND	25	20	ug/kg	
97-63-2	Ethyl methacrylate	ND	5.0	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.69	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.57	ug/kg	
591-78-6	2-Hexanone	ND	10	0.76	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.54	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.40	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.15	ug/kg	
100-42-5	Styrene	ND	5.0	0.17	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.31	ug/kg	
108-88-3	Toluene	ND	5.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.57	ug/kg	
79-01-6	Trichloroethene	ND	2.0	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.29	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.91	ug/kg	
	m,p-Xylene	ND	2.0	0.44	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.22	ug/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-MB	M70653.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	99%	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/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-MB	U24728.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-MB	U24728.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-MB	U24728.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	94%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

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

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB	U24821.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35568-6

CAS No.	Compound	Result	RL	MDL	Units	Q
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
120-82-1	Benzene, 1,2,4-trichloro-	17.89	6.4	ug/l	JN
91-57-6	Naphthalene, 2-methyl-	19.75	8	ug/l	JN
	Total TIC, Volatile		14.4	ug/l	J

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB1	U24858.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35568-6

CAS No.	Compound	Result	RL	MDL	Units	Q
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

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

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-BS	M70650.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	60.1	120	70-130
107-02-8	Acrolein	250	112	45* [a]	70-130
107-13-1	Acrylonitrile	50	46.9	94	70-130
71-43-2	Benzene	50	46.4	93	70-130
108-86-1	Bromobenzene	50	51.0	102	70-130
74-97-5	Bromochloromethane	50	50.8	102	70-130
75-27-4	Bromodichloromethane	50	48.4	97	70-130
75-25-2	Bromoform	50	63.5	127	70-130
74-83-9	Bromomethane	50	44.8	90	70-130
78-93-3	2-Butanone (MEK)	50	40.8	82	70-130
104-51-8	n-Butylbenzene	50	45.9	92	70-130
135-98-8	sec-Butylbenzene	50	46.7	93	70-130
98-06-6	tert-Butylbenzene	50	43.2	86	70-130
75-15-0	Carbon disulfide	50	45.3	91	70-130
56-23-5	Carbon tetrachloride	50	44.2	88	70-130
108-90-7	Chlorobenzene	50	54.6	109	70-130
75-00-3	Chloroethane	50	52.9	106	70-130
110-75-8	2-Chloroethyl vinyl ether	50	59.4	119	10-160
67-66-3	Chloroform	50	45.1	90	70-130
74-87-3	Chloromethane	50	43.8	88	70-130
95-49-8	o-Chlorotoluene	50	45.7	91	70-130
106-43-4	p-Chlorotoluene	50	46.4	93	70-130
124-48-1	Dibromochloromethane	50	57.9	116	70-130
95-50-1	1,2-Dichlorobenzene	50	52.9	106	70-130
541-73-1	1,3-Dichlorobenzene	50	50.9	102	70-130
106-46-7	1,4-Dichlorobenzene	50	50.6	101	70-130
75-71-8	Dichlorodifluoromethane	50	42.0	84	70-130
75-34-3	1,1-Dichloroethane	50	46.8	94	70-130
107-06-2	1,2-Dichloroethane	50	44.8	90	70-130
75-35-4	1,1-Dichloroethene	50	49.0	98	70-130
156-59-2	cis-1,2-Dichloroethene	50	49.3	99	70-130
156-60-5	trans-1,2-Dichloroethene	50	49.1	98	70-130
78-87-5	1,2-Dichloropropane	50	50.3	101	70-130
142-28-9	1,3-Dichloropropane	50	53.7	107	70-130
594-20-7	2,2-Dichloropropane	50	39.9	80	70-130
563-58-6	1,1-Dichloropropene	50	46.7	93	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-BS	M70650.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.7	97	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	70-130
123-91-1	1,4-Dioxane	250	252	101	70-130
97-63-2	Ethyl methacrylate	50	43.6	87	76-141
100-41-4	Ethylbenzene	50	50.1	100	70-130
87-68-3	Hexachlorobutadiene	50	51.8	104	70-130
591-78-6	2-Hexanone	50	39.7	79	70-130
98-82-8	Isopropylbenzene	50	45.9	92	70-130
99-87-6	p-Isopropyltoluene	50	46.8	94	70-130
1634-04-4	Methyl Tert Butyl Ether	50	45.0	90	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	44.8	90	70-130
74-95-3	Methylene bromide	50	50.6	101	70-130
75-09-2	Methylene chloride	50	47.0	94	70-130
91-20-3	Naphthalene	50	59.4	119	70-130
103-65-1	n-Propylbenzene	50	46.6	93	70-130
100-42-5	Styrene	50	54.7	109	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.9	112	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.6	101	70-130
127-18-4	Tetrachloroethene	50	52.7	105	70-130
108-88-3	Toluene	50	48.2	96	70-130
87-61-6	1,2,3-Trichlorobenzene	50	54.7	109	70-130
120-82-1	1,2,4-Trichlorobenzene	50	53.6	107	70-130
71-55-6	1,1,1-Trichloroethane	50	43.1	86	70-130
79-00-5	1,1,2-Trichloroethane	50	49.5	99	70-130
79-01-6	Trichloroethene	50	49.9	100	70-130
75-69-4	Trichlorofluoromethane	50	43.4	87	70-130
96-18-4	1,2,3-Trichloropropane	50	49.3	99	70-130
95-63-6	1,2,4-Trimethylbenzene	50	46.7	93	70-130
108-67-8	1,3,5-Trimethylbenzene	50	44.5	89	70-130
108-05-4	Vinyl Acetate	50	24.8	50* [a]	70-130
75-01-4	Vinyl chloride	50	44.9	90	70-130
	m,p-Xylene	100	104	104	70-130
95-47-6	o-Xylene	50	52.8	106	70-130
1330-20-7	Xylene (total)	150	157	105	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2512-BS	M70650.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-BS	U24726.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.5	109	70-130
107-02-8	Acrolein	250	123	49* [a]	70-130
107-13-1	Acrylonitrile	50	49.3	99	70-130
71-43-2	Benzene	50	47.7	95	70-130
108-86-1	Bromobenzene	50	50.8	102	70-130
74-97-5	Bromochloromethane	50	44.6	89	70-130
75-27-4	Bromodichloromethane	50	50.1	100	70-130
75-25-2	Bromoform	50	44.9	90	70-130
74-83-9	Bromomethane	50	34.7	69* [a]	70-130
78-93-3	2-Butanone (MEK)	50	43.2	86	70-130
104-51-8	n-Butylbenzene	50	50.9	102	70-130
135-98-8	sec-Butylbenzene	50	53.0	106	70-130
98-06-6	tert-Butylbenzene	50	52.5	105	70-130
75-15-0	Carbon disulfide	50	38.8	78	70-130
56-23-5	Carbon tetrachloride	50	45.0	90	70-130
108-90-7	Chlorobenzene	50	45.7	91	70-130
75-00-3	Chloroethane	50	42.2	84	70-130
67-66-3	Chloroform	50	45.1	90	70-130
74-87-3	Chloromethane	50	35.9	72	70-130
95-49-8	o-Chlorotoluene	50	52.7	105	70-130
106-43-4	p-Chlorotoluene	50	50.6	101	70-130
124-48-1	Dibromochloromethane	50	47.2	94	70-130
95-50-1	1,2-Dichlorobenzene	50	48.9	98	70-130
541-73-1	1,3-Dichlorobenzene	50	48.0	96	70-130
106-46-7	1,4-Dichlorobenzene	50	45.3	91	70-130
75-71-8	Dichlorodifluoromethane	50	30.8	62* [a]	70-130
75-34-3	1,1-Dichloroethane	50	47.9	96	70-130
107-06-2	1,2-Dichloroethane	50	50.1	100	70-130
75-35-4	1,1-Dichloroethene	50	46.9	94	70-130
156-59-2	cis-1,2-Dichloroethene	50	45.6	91	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.4	97	70-130
78-87-5	1,2-Dichloropropane	50	50.4	101	70-130
142-28-9	1,3-Dichloropropane	50	48.6	97	70-130
594-20-7	2,2-Dichloropropane	50	45.7	91	70-130
563-58-6	1,1-Dichloropropene	50	53.6	107	70-130
10061-01-5	cis-1,3-Dichloropropene	50	51.6	103	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-BS	U24726.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	52.7	105	70-130
123-91-1	1,4-Dioxane	250	232	93	70-130
97-63-2	Ethyl methacrylate	50	49.3	99	77-137
100-41-4	Ethylbenzene	50	45.7	91	70-130
87-68-3	Hexachlorobutadiene	50	47.4	95	70-130
591-78-6	2-Hexanone	50	62.3	125	70-130
98-82-8	Isopropylbenzene	50	56.0	112	70-130
99-87-6	p-Isopropyltoluene	50	52.0	104	70-130
1634-04-4	Methyl Tert Butyl Ether	50	43.9	88	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.5	107	70-130
74-95-3	Methylene bromide	50	48.4	97	70-130
75-09-2	Methylene chloride	50	44.2	88	70-130
91-20-3	Naphthalene	50	60.7	121	70-130
103-65-1	n-Propylbenzene	50	55.0	110	70-130
100-42-5	Styrene	50	45.4	91	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	46.6	93	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.9	104	70-130
127-18-4	Tetrachloroethene	50	46.1	92	70-130
108-88-3	Toluene	50	46.7	93	70-130
87-61-6	1,2,3-Trichlorobenzene	50	53.9	108	70-130
120-82-1	1,2,4-Trichlorobenzene	50	51.6	103	70-130
71-55-6	1,1,1-Trichloroethane	50	43.0	86	70-130
79-00-5	1,1,2-Trichloroethane	50	50.5	101	70-130
79-01-6	Trichloroethene	50	50.1	100	70-130
75-69-4	Trichlorofluoromethane	50	35.4	71	70-130
96-18-4	1,2,3-Trichloropropane	50	59.2	118	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.0	106	70-130
108-67-8	1,3,5-Trimethylbenzene	50	52.7	105	70-130
108-05-4	Vinyl Acetate	50	31.6	63* [a]	70-130
75-01-4	Vinyl chloride	50	32.9	66* [a]	70-130
	m,p-Xylene	100	91.5	92	70-130
95-47-6	o-Xylene	50	45.1	90	70-130
1330-20-7	Xylene (total)	150	137	91	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1056-BS	U24726.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	98%	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-BS	U24819.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35568-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
110-75-8	2-Chloroethyl vinyl ether	50	48.9	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	111%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2500	2220	89	3390	136* [a]	42* [a]	70-130/20
107-02-8	Acrolein	12500	10200	82	10900	87	7	70-130/20
107-13-1	Acrylonitrile	2500	2340	94	2360	94	1	70-130/20
71-43-2	Benzene	2500	2240	90	2320	93	4	70-130/20
108-86-1	Bromobenzene	2500	2450	98	2640	106	7	70-130/20
74-97-5	Bromochloromethane	2500	2300	92	2430	97	5	70-130/20
75-27-4	Bromodichloromethane	2500	2680	107	2780	111	4	70-130/20
75-25-2	Bromoform	2500	2660	106	2820	113	6	70-130/20
74-83-9	Bromomethane	2500	2220	89	2310	92	4	70-130/20
78-93-3	2-Butanone (MEK)	2500	2710	108	3040	122	11	70-130/20
104-51-8	n-Butylbenzene	2500	2510	100	2660	106	6	70-130/20
135-98-8	sec-Butylbenzene	2500	2560	102	2710	108	6	70-130/20
98-06-6	tert-Butylbenzene	2500	2650	106	2810	112	6	70-130/20
75-15-0	Carbon disulfide	2500	1850	74	1960	78	6	70-130/20
56-23-5	Carbon tetrachloride	2500	2310	92	2440	98	5	70-130/20
108-90-7	Chlorobenzene	2500	2440	98	2580	103	6	70-130/20
75-00-3	Chloroethane	2500	2620	105	2510	100	4	70-130/20
110-75-8	2-Chloroethyl vinyl ether	2500	2560	102	2700	108	5	10-160/20
67-66-3	Chloroform	2500	2270	91	2430	97	7	70-130/20
74-87-3	Chloromethane	2500	2300	92	2380	95	3	70-130/20
95-49-8	o-Chlorotoluene	2500	2420	97	2590	104	7	70-130/20
106-43-4	p-Chlorotoluene	2500	2390	96	2530	101	6	70-130/20
124-48-1	Dibromochloromethane	2500	2630	105	2830	113	7	70-130/20
95-50-1	1,2-Dichlorobenzene	2500	2410	96	2590	104	7	70-130/20
541-73-1	1,3-Dichlorobenzene	2500	2320	93	2460	98	6	70-130/20
106-46-7	1,4-Dichlorobenzene	2500	2290	92	2450	98	7	70-130/20
75-71-8	Dichlorodifluoromethane	2500	2300	92	2370	95	3	70-130/20
75-34-3	1,1-Dichloroethane	2500	2310	92	2420	97	5	70-130/20
107-06-2	1,2-Dichloroethane	2500	2400	96	2510	100	4	70-130/20
75-35-4	1,1-Dichloroethene	2500	2080	83	2220	89	7	70-130/20
156-59-2	cis-1,2-Dichloroethene	2500	2160	86	2280	91	5	70-130/20
156-60-5	trans-1,2-Dichloroethene	2500	2160	86	2280	91	5	70-130/20
78-87-5	1,2-Dichloropropane	2500	2390	96	2460	98	3	70-130/20
142-28-9	1,3-Dichloropropane	2500	2490	100	2640	106	6	70-130/20
594-20-7	2,2-Dichloropropane	2500	2320	93	2330	93	0	70-130/20
563-58-6	1,1-Dichloropropene	2500	2450	98	2560	102	4	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	2500	2590	104	2660	106	3	70-130/20
10061-02-6	trans-1,3-Dichloropropene	2500	2780	111	2830	113	2	70-130/20
123-91-1	1,4-Dioxane	12500	13800	110	15600	125	12	70-130/20
97-63-2	Ethyl methacrylate	2500	2490	100	2560	102	3	76-141/20
100-41-4	Ethylbenzene	2500	2350	94	2480	99	5	70-130/20
87-68-3	Hexachlorobutadiene	2500	2740	110	2860	114	4	70-130/20
591-78-6	2-Hexanone	2500	2710	108	3000	120	10	70-130/20
98-82-8	Isopropylbenzene	2500	2480	99	2710	108	9	70-130/20
99-87-6	p-Isopropyltoluene	2500	2510	100	2680	107	7	70-130/20
1634-04-4	Methyl Tert Butyl Ether	2500	2080	83	2190	88	5	70-130/20
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2450	98	2580	103	5	70-130/20
74-95-3	Methylene bromide	2500	2470	99	2560	102	4	70-130/20
75-09-2	Methylene chloride	2500	2170	87	2260	90	4	70-130/20
91-20-3	Naphthalene	2500	2820	113	3010	120	7	70-130/20
103-65-1	n-Propylbenzene	2500	2500	100	2670	107	7	70-130/20
100-42-5	Styrene	2500	2610	104	2700	108	3	70-130/20
630-20-6	1,1,1,2-Tetrachloroethane	2500	2670	107	2800	112	5	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	2500	2450	98	2620	105	7	70-130/20
127-18-4	Tetrachloroethene	2500	2480	99	2630	105	6	70-130/20
108-88-3	Toluene	2500	2370	95	2440	98	3	70-130/20
87-61-6	1,2,3-Trichlorobenzene	2500	2630	105	2800	112	6	70-130/20
120-82-1	1,2,4-Trichlorobenzene	2500	2530	101	2720	109	7	70-130/20
71-55-6	1,1,1-Trichloroethane	2500	2260	90	2380	95	5	70-130/20
79-00-5	1,1,2-Trichloroethane	2500	2500	100	2570	103	3	70-130/20
79-01-6	Trichloroethene	2500	2430	97	2600	104	7	70-130/20
75-69-4	Trichlorofluoromethane	2500	2200	88	2250	90	2	70-130/20
96-18-4	1,2,3-Trichloropropane	2500	2510	100	2670	107	6	70-130/20
95-63-6	1,2,4-Trimethylbenzene	2500	2490	100	2640	106	6	70-130/20
108-67-8	1,3,5-Trimethylbenzene	2500	2500	100	2690	108	7	70-130/20
108-05-4	Vinyl Acetate	2500	1500	60* [a]	1590	64* [a]	6	70-130/20
75-01-4	Vinyl chloride	2500	1980	79	1700	68* [a]	15	70-130/20
	m,p-Xylene	5000	4800	96	4990	100	4	70-130/20
95-47-6	o-Xylene	2500	2390	96	2470	99	3	70-130/20
1330-20-7	Xylene (total)	7500	7190	96	7460	99	4	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2647-BS	K84258.D	1	12/08/14	JM	n/a	n/a	MSK2647
MSK2647-BSD	K84259.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	109%	70-130%
2037-26-5	Toluene-D8	108%	109%	70-130%
460-00-4	4-Bromofluorobenzene	103%	107%	70-130%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	MC35566-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6550	5030	77	6550	5020	77	0	70-130/30
107-02-8	Acrolein	ND		32700	22300	68* [a]	32700	23900	73	7	70-130/30
107-13-1	Acrylonitrile	ND		6550	5400	82	6550	5850	89	8	70-130/30
71-43-2	Benzene	ND		6550	5730	88	6550	5800	89	1	70-130/30
108-86-1	Bromobenzene	ND		6550	6490	99	6550	6470	99	0	70-130/30
74-97-5	Bromochloromethane	ND		6550	6210	95	6550	6160	94	1	70-130/30
75-27-4	Bromodichloromethane	ND		6550	7790	119	6550	7620	116	2	70-130/30
75-25-2	Bromoform	ND		6550	7070	108	6550	7020	107	1	70-130/30
74-83-9	Bromomethane	ND		6550	7060	108	6550	7150	109	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		6550	6840	104	6550	6490	99	5	70-130/30
104-51-8	n-Butylbenzene	ND		6550	6790	104	6550	6970	106	3	70-130/30
135-98-8	sec-Butylbenzene	ND		6550	6730	103	6550	7050	108	5	70-130/30
98-06-6	tert-Butylbenzene	ND		6550	7240	111	6550	7660	117	6	70-130/30
75-15-0	Carbon disulfide	ND		6550	4920	75	6550	5040	77	2	70-130/30
56-23-5	Carbon tetrachloride	ND		6550	7410	113	6550	7380	113	0	70-130/30
108-90-7	Chlorobenzene	ND		6550	6320	97	6550	6280	96	1	70-130/30
75-00-3	Chloroethane	ND		6550	7050	108	6550	6920	106	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		6550	6200	95	6550	6220	95	0	10-160/30
67-66-3	Chloroform	ND		6550	6790	104	6550	6820	104	0	70-130/30
74-87-3	Chloromethane	ND		6550	6630	101	6550	6970	106	5	70-130/30
95-49-8	o-Chlorotoluene	ND		6550	6600	101	6550	6720	103	2	70-130/30
106-43-4	p-Chlorotoluene	ND		6550	6470	99	6550	6550	100	1	70-130/30
124-48-1	Dibromochloromethane	ND		6550	7060	108	6550	7230	110	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		6550	6400	98	6550	6600	101	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		6550	6230	95	6550	6330	97	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		6550	6130	94	6550	6260	96	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		6550	8440	129	6550	7270	111	15	70-130/30
75-34-3	1,1-Dichloroethane	ND		6550	6240	95	6550	6430	98	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		6550	7110	109	6550	7150	109	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		6550	5600	86	6550	5650	86	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		6550	5660	86	6550	5900	90	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		6550	5590	85	6550	5710	87	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		6550	6000	92	6550	6210	95	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		6550	6180	94	6550	6250	95	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		6550	7190	110	6550	7130	109	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		6550	6730	103	6550	6780	104	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Compound	MC35566-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		6550	6890	105	6550	6750	103	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		6550	7440	114	6550	7380	113	1	70-130/30
123-91-1	1,4-Dioxane	ND		32700	31000	95	32700	32300	99	4	70-130/30
97-63-2	Ethyl methacrylate	ND		6550	6480	99	6550	6230	95	4	41-160/30
100-41-4	Ethylbenzene	ND		6550	6260	96	6550	6340	97	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		6550	7470	114	6550	7860	120	5	70-130/30
591-78-6	2-Hexanone	ND		6550	6220	95	6550	5870	90	6	70-130/30
98-82-8	Isopropylbenzene	ND		6550	6730	103	6550	7010	107	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		6550	6820	104	6550	7100	108	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		6550	5820	89	6550	5970	91	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		6550	6280	96	6550	6140	94	2	70-130/30
74-95-3	Methylene bromide	ND		6550	6660	102	6550	6750	103	1	70-130/30
75-09-2	Methylene chloride	ND		6550	5600	86	6550	5810	89	4	70-130/30
91-20-3	Naphthalene	ND		6550	6950	106	6550	7620	116	9	70-130/30
103-65-1	n-Propylbenzene	ND		6550	6720	103	6550	6880	105	2	70-130/30
100-42-5	Styrene	ND		6550	6700	102	6550	6640	101	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		6550	7410	113	6550	7560	115	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		6550	5960	91	6550	6120	93	3	70-130/30
127-18-4	Tetrachloroethene	ND		6550	6390	98	6550	6650	102	4	70-130/30
108-88-3	Toluene	ND		6550	6280	96	6550	6170	94	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		6550	6560	100	6550	7240	111	10	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		6550	6650	102	6550	7040	108	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		6550	7170	110	6550	7100	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		6550	6350	97	6550	6320	97	0	70-130/30
79-01-6	Trichloroethene	1530		6550	8580	108	6550	8720	110	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		6550	7400	113	6550	7070	108	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		6550	6360	97	6550	6330	97	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		6550	6790	104	6550	7030	107	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		6550	6800	104	6550	7090	108	4	70-130/30
108-05-4	Vinyl Acetate	ND		6550	2510	38* [a]	6550	2540	39* [a]	1	70-130/30
75-01-4	Vinyl chloride	ND		6550	8380	128	6550	6550	100	25	70-130/30
	m,p-Xylene	ND		13100	12600	96	13100	12600	96	0	70-130/30
95-47-6	o-Xylene	ND		6550	6260	96	6550	6360	97	2	70-130/30
1330-20-7	Xylene (total)	ND		19600	18800	96	19600	18900	96	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35566-2MS	K84268.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2MSD	K84269.D	1	12/08/14	JM	n/a	n/a	MSK2647
MC35566-2	K84267.D	1	12/08/14	JM	n/a	n/a	MSK2647

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

MC35568-1, MC35568-2

CAS No.	Surrogate Recoveries	MS	MSD	MC35566-2	Limits
1868-53-7	Dibromofluoromethane	118%	119%	124%	70-130%
2037-26-5	Toluene-D8	112%	112%	107%	70-130%
460-00-4	4-Bromofluorobenzene	109%	110%	107%	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-4MS	M70657.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4MSD	M70664.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4	M70656.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		58.7	31.9	54* a	57.7	29.4	51* a	8	70-130/30
107-02-8	Acrolein	ND		294	89.8	31* a	288	114	40* a	24	70-130/30
107-13-1	Acrylonitrile	ND		58.7	58.8	100	57.7	56.4	98	4	70-130/30
71-43-2	Benzene	4.4		58.7	46.9	72	57.7	48.2	76	3	70-130/30
108-86-1	Bromobenzene	ND		58.7	45.0	77	57.7	42.4	73	6	70-130/30
74-97-5	Bromochloromethane	ND		58.7	52.5	89	57.7	54.0	94	3	70-130/30
75-27-4	Bromodichloromethane	ND		58.7	47.9	82	57.7	48.6	84	1	70-130/30
75-25-2	Bromoform	ND		58.7	68.9	117	57.7	66.2	115	4	70-130/30
74-83-9	Bromomethane	ND		58.7	35.7	61* a	57.7	42.2	73	17	70-130/30
78-93-3	2-Butanone (MEK)	ND		58.7	40.5	69* a	57.7	40.7	71	0	70-130/30
104-51-8	n-Butylbenzene	ND		58.7	33.4	57* a	57.7	25.2	44* a	28	70-130/30
135-98-8	sec-Butylbenzene	ND		58.7	36.4	62* a	57.7	28.3	49* a	25	70-130/30
98-06-6	tert-Butylbenzene	ND		58.7	35.3	60* a	57.7	29.0	50* a	20	70-130/30
75-15-0	Carbon disulfide	ND		58.7	44.9	76	57.7	47.1	82	5	70-130/30
56-23-5	Carbon tetrachloride	ND		58.7	44.2	75	57.7	44.8	78	1	70-130/30
108-90-7	Chlorobenzene	ND		58.7	49.8	85	57.7	49.1	85	1	70-130/30
75-00-3	Chloroethane	ND		58.7	42.5	72	57.7	50.0	87	16	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		58.7	4.2	7* a	57.7	ND	0* a	200* b	10-160/30
67-66-3	Chloroform	ND		58.7	44.5	76	57.7	46.1	80	4	70-130/30
74-87-3	Chloromethane	ND		58.7	35.1	60* a	57.7	42.8	74	20	70-130/30
95-49-8	o-Chlorotoluene	ND		58.7	39.5	67* a	57.7	35.1	61* a	12	70-130/30
106-43-4	p-Chlorotoluene	ND		58.7	38.0	65* a	57.7	34.4	60* a	10	70-130/30
124-48-1	Dibromochloromethane	ND		58.7	57.9	99	57.7	58.1	101	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		58.7	43.3	74	57.7	37.0	64* a	16	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		58.7	41.0	70	57.7	35.3	61* a	15	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		58.7	40.5	69* a	57.7	35.7	62* a	13	70-130/30
75-71-8	Dichlorodifluoromethane	ND		58.7	33.2	57* a	57.7	42.4	73	24	70-130/30
75-34-3	1,1-Dichloroethane	ND		58.7	46.3	79	57.7	48.9	85	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		58.7	46.9	80	57.7	47.1	82	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		58.7	49.8	85	57.7	51.7	90	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		58.7	48.2	82	57.7	50.3	87	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		58.7	49.2	84	57.7	52.0	90	6	70-130/30
78-87-5	1,2-Dichloropropane	ND		58.7	48.5	83	57.7	49.9	86	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		58.7	54.7	93	57.7	53.8	93	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		58.7	39.6	67* a	57.7	41.8	72	5	70-130/30
563-58-6	1,1-Dichloropropene	ND		58.7	46.8	80	57.7	47.1	82	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-4MS	M70657.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4MSD	M70664.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4	M70656.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		58.7	48.4	82	57.7	48.5	84	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		58.7	51.5	88	57.7	51.2	89	1	70-130/30
123-91-1	1,4-Dioxane	ND		294	378	129	288	323	112	16	70-130/30
97-63-2	Ethyl methacrylate	ND		58.7	50.9	87	57.7	48.2	84	5	41-160/30
100-41-4	Ethylbenzene	1.1	J	58.7	46.8	78	57.7	44.5	75	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		58.7	33.1	56* a	57.7	22.5	39* a	38* b	70-130/30
591-78-6	2-Hexanone	ND		58.7	45.4	77	57.7	39.0	68* a	15	70-130/30
98-82-8	Isopropylbenzene	ND		58.7	39.7	68* a	57.7	35.1	61* a	12	70-130/30
99-87-6	p-Isopropyltoluene	ND		58.7	36.2	62* a	57.7	28.1	49* a	25	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		58.7	49.1	84	57.7	48.6	84	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		58.7	62.8	107	57.7	55.2	96	13	70-130/30
74-95-3	Methylene bromide	ND		58.7	54.6	93	57.7	54.8	95	0	70-130/30
75-09-2	Methylene chloride	ND		58.7	47.1	80	57.7	48.9	85	4	70-130/30
91-20-3	Naphthalene	ND		58.7	55.0	94	57.7	36.9	64* a	39* b	70-130/30
103-65-1	n-Propylbenzene	ND		58.7	38.9	66* a	57.7	33.3	58* a	16	70-130/30
100-42-5	Styrene	ND		58.7	50.0	85	57.7	47.1	82	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		58.7	52.0	89	57.7	51.8	90	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		58.7	56.6	96	57.7	52.6	91	7	70-130/30
127-18-4	Tetrachloroethene	ND		58.7	50.2	86	57.7	48.7	84	3	70-130/30
108-88-3	Toluene	1.3	J	58.7	46.8	78	57.7	46.6	79	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		58.7	36.5	62* a	57.7	23.9	41* a	42* b	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		58.7	34.8	59* a	57.7	24.9	43* a	33* b	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		58.7	44.1	75	57.7	45.4	79	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		58.7	53.2	91	57.7	52.5	91	1	70-130/30
79-01-6	Trichloroethene	ND		58.7	48.5	83	57.7	50.1	87	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		58.7	34.7	59* a	57.7	39.2	68* a	12	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		58.7	57.3	98	57.7	52.1	90	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		58.7	38.1	65* a	57.7	32.3	56* a	16	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		58.7	36.5	62* a	57.7	30.4	53* a	18	70-130/30
108-05-4	Vinyl Acetate	ND		58.7	23.6	40* a	57.7	24.6	43* a	4	70-130/30
75-01-4	Vinyl chloride	ND		58.7	35.8	61* a	57.7	43.3	75	19	70-130/30
	m,p-Xylene	ND		117	95.0	81	115	89.3	77	6	70-130/30
95-47-6	o-Xylene	ND		58.7	48.3	82	57.7	45.4	79	6	70-130/30
1330-20-7	Xylene (total)	0.47	J	176	143	81	173	135	78	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-4MS	M70657.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4MSD	M70664.D	1	12/16/14	AMY	n/a	n/a	MSM2512
MC35568-4	M70656.D	1	12/16/14	AMY	n/a	n/a	MSM2512

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

MC35568-3, MC35568-4

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
1868-53-7	Dibromofluoromethane	106%	105%	106%	70-130%
2037-26-5	Toluene-D8	97%	95%	98%	70-130%
460-00-4	4-Bromofluorobenzene	90%	87%	89%	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35558-2MS	U24747.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2MSD	U24748.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2	U24731.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	MC35558-2 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		250	228	91	250	212	85	7	70-130/30
107-02-8	Acrolein	ND		1250	503	40* a	1250	863	69* a	53* b	70-130/30
107-13-1	Acrylonitrile	ND		250	254	102	250	195	78	26	70-130/30
71-43-2	Benzene	ND		250	249	100	250	224	90	11	70-130/30
108-86-1	Bromobenzene	ND		250	265	106	250	234	94	12	70-130/30
74-97-5	Bromochloromethane	ND		250	222	89	250	200	80	10	70-130/30
75-27-4	Bromodichloromethane	ND		250	258	103	250	222	89	15	70-130/30
75-25-2	Bromoform	ND		250	220	88	250	181	72	19	70-130/30
74-83-9	Bromomethane	ND		250	190	76	250	178	71	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	194	78	250	132	53* a	38* b	70-130/30
104-51-8	n-Butylbenzene	ND		250	253	101	250	231	92	9	70-130/30
135-98-8	sec-Butylbenzene	ND		250	269	108	250	248	99	8	70-130/30
98-06-6	tert-Butylbenzene	ND		250	272	109	250	253	101	7	70-130/30
75-15-0	Carbon disulfide	ND		250	212	85	250	194	78	9	70-130/30
56-23-5	Carbon tetrachloride	ND		250	233	93	250	209	84	11	70-130/30
108-90-7	Chlorobenzene	ND		250	233	93	250	208	83	11	70-130/30
75-00-3	Chloroethane	ND		250	233	93	250	225	90	3	70-130/30
67-66-3	Chloroform	ND		250	232	93	250	212	85	9	70-130/30
74-87-3	Chloromethane	ND		250	208	83	250	199	80	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	270	108	250	248	99	8	70-130/30
106-43-4	p-Chlorotoluene	ND		250	268	107	250	242	97	10	70-130/30
124-48-1	Dibromochloromethane	ND		250	239	96	250	203	81	16	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	239	96	250	215	86	11	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	245	98	250	221	88	10	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	232	93	250	209	84	10	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	220	88	250	209	84	5	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	249	100	250	231	92	8	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	279	112	250	217	87	25	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	250	100	250	231	92	8	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	252	101	250	226	90	11	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	247	99	250	230	92	7	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	266	106	250	232	93	14	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	262	105	250	222	89	17	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	221	88	250	194	78	13	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	291	116	250	260	104	11	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	283	113	250	240	96	16	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35558-2MS	U24747.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2MSD	U24748.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2	U24731.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Compound	MC35558-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	288	115	250	247	99	15	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1340	107	1250	1990	159* a	39* b	70-130/30
97-63-2	Ethyl methacrylate	ND		250	260	104	250	218	87	18	72-139/30
100-41-4	Ethylbenzene	ND		250	235	94	250	210	84	11	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	230	92	250	220	88	4	70-130/30
591-78-6	2-Hexanone	ND		250	299	120	250	191	76	44* b	70-130/30
98-82-8	Isopropylbenzene	ND		250	283	113	250	262	105	8	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	261	104	250	239	96	9	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	223	89	250	200	80	11	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	267	107	250	201	80	28	70-130/30
74-95-3	Methylene bromide	ND		250	241	96	250	209	84	14	70-130/30
75-09-2	Methylene chloride	ND		250	224	90	250	204	82	9	70-130/30
91-20-3	Naphthalene	ND		250	261	104	250	233	93	11	70-130/30
103-65-1	n-Propylbenzene	ND		250	282	113	250	263	105	7	70-130/30
100-42-5	Styrene	ND		250	235	94	250	210	84	11	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	220	88	250	198	79	11	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	279	112	250	242	97	14	70-130/30
127-18-4	Tetrachloroethene	ND		250	232	93	250	209	84	10	70-130/30
108-88-3	Toluene	ND		250	247	99	250	220	88	12	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	229	92	250	216	86	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	232	93	250	214	86	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	222	89	250	206	82	7	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	272	109	250	227	91	18	70-130/30
79-01-6	Trichloroethene	ND		250	280	112	250	239	96	16	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	217	87	250	200	80	8	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	317	127	250	250	100	24	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	268	107	250	243	97	10	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	264	106	250	243	97	8	70-130/30
108-05-4	Vinyl Acetate	ND		250	164	66* a	250	142	57* a	14	70-130/30
75-01-4	Vinyl chloride	ND		250	196	78	250	183	73	7	70-130/30
	m,p-Xylene	ND		500	460	92	500	414	83	11	70-130/30
95-47-6	o-Xylene	ND		250	219	88	250	199	80	10	70-130/30
1330-20-7	Xylene (total)	ND		750	680	91	750	613	82	10	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35558-2MS	U24747.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2MSD	U24748.D	5	12/18/14	GK	n/a	n/a	MSU1056
MC35558-2	U24731.D	1	12/18/14	GK	n/a	n/a	MSU1056

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

MC35568-6

CAS No.	Surrogate Recoveries	MS	MSD	MC35558-2	Limits
1868-53-7	Dibromofluoromethane	90%	91%	89%	70-130%
2037-26-5	Toluene-D8	99%	99%	91%	70-130%
460-00-4	4-Bromofluorobenzene	113%	113%	103%	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35963-6MS	U24840.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6MSD	U24841.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6 [a]	U24832.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35568-6

CAS No.	Compound	MC35963-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
110-75-8	2-Chloroethyl vinyl ether	5.0 U		250	290	116	250	263	105	10	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35963-6	Limits
1868-53-7	Dibromofluoromethane	102%	91%	102%	70-130%
2037-26-5	Toluene-D8	104%	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	103%	106%	95%	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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSK2647-CC2632	**Injection Date:**	12/08/14
Lab File ID:	K84258.D	**Injection Time:**	10:22
Instrument ID:	GCMSK	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	261179	8.77	349594	9.62	179447	12.87	186635	15.43	92936	6.41
Upper Limit [a]	522358	9.27	699188	10.12	358894	13.37	373270	15.93	185872	6.91
Lower Limit [b]	130590	8.27	174797	9.12	89724	12.37	93318	14.93	46468	5.91

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSK2647-BS	261179	8.77	349594	9.62	179447	12.87	186635	15.43	92936	6.41
MSK2647-BSD	266587	8.77	363385	9.62	181414	12.87	185707	15.43	97278	6.41
MSK2647-MB	223592	8.77	303258	9.62	141145	12.88	162910	15.43	83742	6.40
ZZZZZZ	242044	8.77	328017	9.62	148562	12.88	172934	15.43	83743	6.43
ZZZZZZ	217764	8.77	299549	9.62	139009	12.88	158260	15.43	80232	6.41
ZZZZZZ	215103	8.77	293219	9.62	138226	12.88	155171	15.43	82474	6.41
ZZZZZZ	203663	8.78	282373	9.62	133387	12.88	147460	15.43	81495	6.41
ZZZZZZ	202881	8.77	275752	9.62	131967	12.88	152687	15.43	77493	6.43
MC35566-2	184293	8.77	247722	9.62	123098	12.88	141319	15.43	59745	6.41
MC35566-2MS	187378	8.77	258451	9.62	139527	12.87	147422	15.43	62404	6.41
MC35566-2MSD	191620	8.77	264609	9.62	138267	12.87	142314	15.43	65066	6.41
ZZZZZZ	176304	8.77	235926	9.62	111752	12.88	131259	15.43	52602	6.40
ZZZZZZ	183431	8.78	247377	9.62	128515	12.88	145825	15.43	22301[c]	6.35
ZZZZZZ	196471	8.77	270019	9.62	140275	12.88	155940	15.43	71662	6.41
ZZZZZZ	212570	8.77	293202	9.62	144428	12.88	159881	15.43	72029	6.41
ZZZZZZ	216145	8.77	293480	9.62	143530	12.88	168709	15.43	67703	6.40
ZZZZZZ	227672	8.77	311323	9.62	151574	12.88	172234	15.43	63517	6.40
ZZZZZZ	226307	8.77	308393	9.62	141820	12.88	169918	15.43	72664	6.42
ZZZZZZ	234052	8.77	316008	9.62	146538	12.88	169784	15.43	81316	6.45
ZZZZZZ	209932	8.77	284939	9.62	133764	12.88	156959	15.43	69816	6.43
MC35568-1	217728	8.77	283952	9.62	142098	12.88	162860	15.43	72293	6.41
MC35568-2	220765	8.77	294490	9.62	144505	12.88	167606	15.43	74853	6.41
ZZZZZZ	240714	8.78	335851	9.62	165193	12.88	192987	15.43	71623	6.41
ZZZZZZ	230562	8.77	322559	9.62	160306	12.88	177312	15.43	70676	6.40
ZZZZZZ	214739	8.77	299432	9.62	140191	12.88	176092	15.43	72569	6.39

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 Internal Standard Area Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSM2512-CC2495	**Injection Date:**	12/16/14
Lab File ID:	M70649.D	**Injection Time:**	08:37
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	151623	9.34	238284	10.22	107465	13.50	132824	16.06	46243	6.85
Upper Limit [a]	303246	9.84	476568	10.72	214930	14.00	265648	16.56	92486	7.35
Lower Limit [b]	75812	8.84	119142	9.72	53733	13.00	66412	15.56	23122	6.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSM2512-BS	149266	9.34	235013	10.22	104744	13.50	128796	16.06	48048	6.85
MSM2512-MB	149869	9.34	229436	10.22	103191	13.50	130248	16.06	47307	6.86
ZZZZZZ	154429	9.34	238953	10.22	102675	13.51	130817	16.06	48789	6.85
MC35568-3	160030	9.34	250165	10.22	112878	13.50	147163	16.06	82459	6.85
MC35568-4	153393	9.34	242232	10.22	109415	13.51	144910	16.06	83972	6.85
MC35568-4MS	150240	9.34	242406	10.22	111421	13.50	142851	16.06	88536	6.84
ZZZZZZ	154827	9.34	242612	10.22	109348	13.50	143665	16.06	75781	6.84
ZZZZZZ	142269	9.34	224096	10.22	101378	13.50	131353	16.06	79295	6.84
ZZZZZZ	153932	9.34	241740	10.22	109245	13.50	147489	16.06	87582	6.84
ZZZZZZ	153354	9.34	242704	10.22	111223	13.50	147941	16.06	89672	6.85
ZZZZZZ	157686	9.34	250189	10.22	110220	13.50	133746	16.06	72445	6.85
MC35568-4MSD	151767	9.34	247202	10.22	112739	13.50	144816	16.06	83442	6.84
ZZZZZZ	156059	9.34	241906	10.22	107681	13.50	135587	16.06	50951	6.86
ZZZZZZ	152640	9.34	240569	10.22	107264	13.51	133323	16.06	79016	6.85
ZZZZZZ	150408	9.34	235013	10.22	105289	13.50	131084	16.07	80566	6.85
ZZZZZZ	148308	9.34	231193	10.22	101254	13.51	128858	16.06	49510	6.86
ZZZZZZ	152660	9.34	237004	10.22	104733	13.51	130523	16.06	47756	6.85
ZZZZZZ	154417	9.34	240930	10.22	108654	13.51	136723	16.06	50242	6.85
ZZZZZZ	148717	9.34	235188	10.22	104171	13.51	134552	16.06	48566	6.85
ZZZZZZ	149927	9.34	234306	10.22	103645	13.50	132791	16.06	55283	6.86

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSU1056-CC1041	**Injection Date:**	12/18/14
Lab File ID:	U24724.D	**Injection Time:**	09:14
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	625894	8.96	1084710	9.83	482516	13.09	583812	15.65	218109	6.68
Upper Limit [a]	1251788	9.46	2169420	10.33	965032	13.59	1167624	16.15	436218	7.18
Lower Limit [b]	312947	8.46	542355	9.33	241258	12.59	291906	15.15	109055	6.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1056-BS	625394	8.96	1047335	9.83	460759	13.08	557168	15.65	290855	6.63
MSU1056-MB	613872	8.97	975414	9.83	380890	13.09	561036	15.66	313811	6.63
ZZZZZZ	646402	8.96	1030622	9.83	391535	13.09	575657	15.66	158986	6.73
MC35568-6	602751	8.97	953746	9.83	357699	13.09	525532	15.66	244407	6.66
MC35558-2	630524	8.96	1013467	9.83	379105	13.09	547031	15.66	268740	6.64
ZZZZZZ	637165	8.96	1068184	9.83	382938	13.09	524542	15.66	173779	6.73
ZZZZZZ	796991	8.97	1320560	9.84	538768	13.09	622239	15.66	218858	6.74
ZZZZZZ	1247058	9.07	1795400	9.96	687395	13.12	640522	15.66	417698	6.68
ZZZZZZ	750378	8.96	1289500	9.83	546135	13.09	682827	15.65	332616	6.63
ZZZZZZ	714443	8.97	1130873	9.83	440316	13.09	634897	15.66	216887	6.76
ZZZZZZ	693093	8.96	1115517	9.83	418843	13.09	604771	15.66	225015	6.75
ZZZZZZ	607431	8.97	958747	9.83	384688	13.09	584496	15.66	197714	6.75
ZZZZZZ	719297	8.96	1153887	9.83	442155	13.09	616334	15.66	219697	6.75
ZZZZZZ	734707	8.96	1266630	9.83	431891	13.09	580276	15.66	223484	6.74
ZZZZZZ	679665	8.97	1087663	9.83	413819	13.09	581677	15.65	208768	6.74
MC35558-2MS	723298	8.96	1224902	9.83	549464	13.09	638757	15.65	277661	6.72
MC35558-2MSD	714195	8.96	1230402	9.83	546711	13.08	627137	15.65	244308	6.72

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSU1058-CC1041	Injection Date:	12/20/14
Lab File ID:	U24817.D	Injection Time:	15:46
Instrument ID:	GCMSU	Method:	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	539660	8.96	929229	9.83	424982	13.08	523345	15.65	149500	6.74
Upper Limit [a]	1079320	9.46	1858458	10.33	849964	13.58	1046690	16.15	299000	7.24
Lower Limit [b]	269830	8.46	464615	9.33	212491	12.58	261673	15.15	74750	6.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1058-BS	586286	8.96	1032244	9.83	471869	13.08	565005	15.65	156183	6.73
MSU1058-MB	643954	8.96	1055993	9.83	405137	13.09	556288	15.66	235761	6.76
MC35568-6	661642	8.96	1076770	9.83	408634	13.09	564840	15.66	277782	6.63
ZZZZZZ	569628	8.97	924072	9.83	368452	13.09	533546	15.65	221755	6.74
ZZZZZZ	584471	8.96	954016	9.83	376793	13.09	549121	15.65	283256	6.65
ZZZZZZ	614092	8.97	977049	9.83	377520	13.09	533706	15.65	173035	6.75
ZZZZZZ	610692	8.96	1010697	9.83	405598	13.09	581983	15.65	230859	6.69
ZZZZZZ	633257	8.96	1035637	9.83	411252	13.09	557492	15.65	263074	6.62
ZZZZZZ	516613	8.97	846890	9.83	347809	13.09	516600	15.66	151961	6.78
ZZZZZZ	640801	8.97	1034957	9.83	396244	13.09	536326	15.65	228883	6.74
MC35963-6	546733	8.96	972601	9.83	441538	13.09	720736	15.65	352418[c]	6.60
ZZZZZZ	701771	8.96	1156642	9.83	463623	13.09	674180	15.65	223565	6.66
ZZZZZZ	655650	8.96	1271498	9.83	636415	13.09	866542	15.65	344321[c]	6.71
ZZZZZZ	606568	8.96	1174707	9.82	568871	13.08	818925	15.65	245592	6.66
MC35963-6MS	618869	8.96	1152603	9.83	581412	13.08	829763	15.65	282715	6.63
MC35963-6MSD	747290	8.96	1297148	9.83	573796	13.08	771503	15.65	279879	6.62
MSU1058-ECC1041	742395	8.95	1269665	9.83	545295	13.08	690228	15.65	220368	6.68

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 Internal Standard Area Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSU1059-CC1041	**Injection Date:**	12/21/14
Lab File ID:	U24855.D	**Injection Time:**	11:14
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
Upper Limit [a]	1535872	9.46	2560596	10.33	1101316	13.58	1299822	16.15	492784	7.19
Lower Limit [b]	383968	8.46	640149	9.33	275329	12.58	324956	15.15	123196	6.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1058-BS1	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
MSU1059-BS	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
MSU1058-MB1	741036	8.96	1181796	9.83	441971	13.09	618544	15.65	309055	6.64
MSU1059-MB	741036	8.96	1181796	9.83	441971	13.09	618544	15.65	309055	6.64
ZZZZZZ	723858	8.96	1160723	9.83	441404	13.09	613921	15.65	253580	6.67
ZZZZZZ	714417	8.96	1123286	9.83	399712	13.09	571263	15.65	348356	6.58
ZZZZZZ	628124	8.97	985949	9.83	376295	13.09	564343	15.65	218705	6.67
ZZZZZZ	555987	8.96	886164	9.83	366654	13.09	587403	15.65	212010	6.72
ZZZZZZ	712727	8.96	1161026	9.83	439116	13.09	600467	15.65	274795	6.66
MC35883-13	683914	8.96	1095274	9.83	398136	13.09	555749	15.65	304308	6.61
ZZZZZZ	699009	8.96	1155220	9.83	425986	13.09	586356	15.65	247587	6.68
ZZZZZZ	711034	8.97	1136455	9.83	427740	13.09	593678	15.65	250239	6.66
ZZZZZZ	573483	8.96	926878	9.83	374968	13.09	560914	15.65	197836	6.72
ZZZZZZ	679958	8.96	1103788	9.83	421241	13.09	562136	15.65	270097	6.67
ZZZZZZ	547675	8.97	903713	9.83	388669	13.09	583298	15.65	223974	6.72
ZZZZZZ	690965	8.96	1119300	9.83	426607	13.09	591840	15.65	255581	6.68
ZZZZZZ	701783	8.97	1112369	9.83	422198	13.09	583093	15.65	253656	6.66
ZZZZZZ	614673	8.96	981672	9.83	387575	13.09	554359	15.65	286373	6.60
ZZZZZZ	610809	8.96	1015745	9.83	425417	13.09	571367	15.65	217524	6.65
ZZZZZZ	640756	8.97	1025993	9.83	396748	13.09	557999	15.65	292790	6.65
ZZZZZZ	657140	8.96	1061015	9.83	398335	13.09	540133	15.65	198988	6.67
ZZZZZZ	661188	8.96	1051617	9.83	387836	13.09	544211	15.65	367482	6.60
ZZZZZZ	674632	8.96	1093582	9.83	409625	13.09	556072	15.65	287890	6.69

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35568-6	U24730.D	90	93	101
MC35568-6	U24824.D	84	92	105
MC35558-2MS	U24747.D	90	99	113
MC35558-2MSD	U24748.D	91	99	113
MC35963-6MS	U24840.D	102	104	103
MC35963-6MSD	U24841.D	91	96	106
MSU1056-BS	U24726.D	90	98	107
MSU1056-MB	U24728.D	90	94	101
MSU1058-BS	U24819.D	94	100	111
MSU1058-MB	U24821.D	91	92	105
MSU1058-MB1	U24858.D	86	89	105

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

Volatile Surrogate Recovery Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35568-1	K84280.D	121	110	113
MC35568-2	K84281.D	121	111	114
MC35568-3	M70655.D	103	98	90
MC35568-4	M70656.D	106	98	89
MC35566-2MS	K84268.D	118	112	109
MC35566-2MSD	K84269.D	119	112	110
MC35568-4MS	M70657.D	106	97	90
MC35568-4MSD	M70664.D	105	95	87
MSK2647-BS	K84258.D	106	108	103
MSK2647-BSD	K84259.D	109	109	107
MSK2647-MB	K84261.D	122	105	104
MSM2512-BS	M70650.D	97	96	88
MSM2512-MB	M70653.D	97	99	90

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MB	F78609.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	480	60	ug/kg	
95-57-8	2-Chlorophenol	ND	240	11	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	480	12	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	480	14	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	480	78	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	120	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	480	60	ug/kg	
95-48-7	2-Methylphenol	ND	480	19	ug/kg	
	3&4-Methylphenol	ND	480	23	ug/kg	
88-75-5	2-Nitrophenol	ND	480	13	ug/kg	
100-02-7	4-Nitrophenol	ND	960	89	ug/kg	
87-86-5	Pentachlorophenol	ND	480	34	ug/kg	
108-95-2	Phenol	ND	240	14	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	480	12	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	480	12	ug/kg	
62-53-3	Aniline	ND	480	24	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	9.7	ug/kg	
100-51-6	Benzyl Alcohol	ND	480	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	13	ug/kg	
106-47-8	4-Chloroaniline	ND	480	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	11	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	15	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	240	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	480	32	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	480	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	24	ug/kg	
132-64-9	Dibenzofuran	ND	96	13	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	240	25	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	7.5	ug/kg	
84-66-2	Diethyl phthalate	ND	240	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	240	8.8	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	15	ug/kg	

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MB	F78609.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	480	120	ug/kg	
67-72-1	Hexachloroethane	ND	240	12	ug/kg	
78-59-1	Isophorone	ND	240	11	ug/kg	
88-74-4	2-Nitroaniline	ND	480	12	ug/kg	
99-09-2	3-Nitroaniline	ND	480	26	ug/kg	
100-01-6	4-Nitroaniline	ND	480	12	ug/kg	
98-95-3	Nitrobenzene	ND	240	13	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	240	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	14	ug/kg	
110-86-1	Pyridine	ND	480	24	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	90%	30-130%
4165-62-2	Phenol-d5	95%	30-130%
118-79-6	2,4,6-Tribromophenol	90%	30-130%
4165-60-0	Nitrobenzene-d5	94%	30-130%
321-60-8	2-Fluorobiphenyl	89%	30-130%
1718-51-0	Terphenyl-d14	118%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	2.61	250	ug/kg	JN
	Total TIC, Semi-Volatile		250	ug/kg	J

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-MB	I93318.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.83	ug/kg	
208-96-8	Acenaphthylene	ND	4.8	0.73	ug/kg	
120-12-7	Anthracene	ND	4.8	1.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4.8	2.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.8	2.1	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.8	1.5	ug/kg	
218-01-9	Chrysene	ND	4.8	1.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.4	ug/kg	
206-44-0	Fluoranthene	ND	4.8	1.4	ug/kg	
86-73-7	Fluorene	ND	4.8	0.94	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	96	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	96	24	ug/kg	
85-01-8	Phenanthrene	ND	4.8	1.0	ug/kg	
129-00-0	Pyrene	ND	4.8	1.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	106%	30-130%
321-60-8	2-Fluorobiphenyl	101%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-BS	F78610.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	2390	1840	77	30-130
95-57-8	2-Chlorophenol	2390	1970	82	30-130
59-50-7	4-Chloro-3-methyl phenol	2390	2120	89	30-130
120-83-2	2,4-Dichlorophenol	2390	2100	88	30-130
105-67-9	2,4-Dimethylphenol	2390	2010	84	30-130
51-28-5	2,4-Dinitrophenol	2390	1970	82	30-130
534-52-1	4,6-Dinitro-o-cresol	2390	2350	98	30-130
95-48-7	2-Methylphenol	2390	2030	85	30-130
	3&4-Methylphenol	4780	4120	86	30-130
88-75-5	2-Nitrophenol	2390	1970	82	30-130
100-02-7	4-Nitrophenol	2390	2180	91	30-130
87-86-5	Pentachlorophenol	2390	1670	70	30-130
108-95-2	Phenol	2390	2270	95	30-130
95-95-4	2,4,5-Trichlorophenol	2390	1970	82	30-130
88-06-2	2,4,6-Trichlorophenol	2390	1880	79	30-130
62-53-3	Aniline	2390	1180	49	40-140
101-55-3	4-Bromophenyl phenyl ether	2390	2080	87	40-140
85-68-7	Butyl benzyl phthalate	2390	2330	97	40-140
100-51-6	Benzyl Alcohol	2390	1610	67	40-140
91-58-7	2-Chloronaphthalene	2390	2090	87	40-140
106-47-8	4-Chloroaniline	2390	1220	51	40-140
111-91-1	bis(2-Chloroethoxy)methane	2390	2000	84	40-140
111-44-4	bis(2-Chloroethyl)ether	2390	2060	86	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2390	2410	101	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2390	1910	80	40-140
122-66-7	1,2-Diphenylhydrazine	2390	2270	95	40-140
121-14-2	2,4-Dinitrotoluene	2390	2150	90	40-140
606-20-2	2,6-Dinitrotoluene	2390	2100	88	40-140
91-94-1	3,3'-Dichlorobenzidine	2390	2020	85	40-140
132-64-9	Dibenzofuran	2390	1920	80	40-140
84-74-2	Di-n-butyl phthalate	2390	2200	92	40-140
117-84-0	Di-n-octyl phthalate	2390	2350	98	40-140
84-66-2	Diethyl phthalate	2390	2060	86	40-140
131-11-3	Dimethyl phthalate	2390	2010	84	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2390	2370	99	40-140
118-74-1	Hexachlorobenzene	2390	2100	88	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-BS	F78610.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	2390	1080	45	40-140
67-72-1	Hexachloroethane	2390	1790	75	40-140
78-59-1	Isophorone	2390	1830	77	40-140
88-74-4	2-Nitroaniline	2390	2160	90	40-140
99-09-2	3-Nitroaniline	2390	1660	69	40-140
100-01-6	4-Nitroaniline	2390	2090	87	40-140
98-95-3	Nitrobenzene	2390	1930	81	40-140
62-75-9	n-Nitrosodimethylamine	2390	1850	77	40-140
621-64-7	N-Nitroso-di-n-propylamine	2390	2130	89	40-140
86-30-6	N-Nitrosodiphenylamine	2390	1960	82	40-140
110-86-1	Pyridine	2390	1310	55	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	92%	30-130%
4165-62-2	Phenol-d5	99%	30-130%
118-79-6	2,4,6-Tribromophenol	104%	30-130%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	90%	30-130%
1718-51-0	Terphenyl-d14	108%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-BS	I93319.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2390	2340	98	40-140
208-96-8	Acenaphthylene	2390	1920	80	40-140
120-12-7	Anthracene	2390	2340	98	40-140
56-55-3	Benzo(a)anthracene	2390	2640	110	40-140
50-32-8	Benzo(a)pyrene	2390	2460	103	40-140
205-99-2	Benzo(b)fluoranthene	2390	2650	111	40-140
191-24-2	Benzo(g,h,i)perylene	2390	2490	104	40-140
207-08-9	Benzo(k)fluoranthene	2390	2510	105	40-140
218-01-9	Chrysene	2390	2540	106	40-140
53-70-3	Dibenzo(a,h)anthracene	2390	2540	106	40-140
206-44-0	Fluoranthene	2390	2610	109	40-140
86-73-7	Fluorene	2390	2320	97	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2390	2500	105	40-140
90-12-0	1-Methylnaphthalene	2390	2140	90	40-140
91-57-6	2-Methylnaphthalene	2390	2260	95	40-140
85-01-8	Phenanthrene	2390	2380	100	40-140
129-00-0	Pyrene	2390	2370	99	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	109%	30-130%
321-60-8	2-Fluorobiphenyl	103%	30-130%
1718-51-0	Terphenyl-d14	105%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MS	F78611.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
OP41128-MSD	F78612.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
MC35568-4	F78613.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		2650	836	32	2610	833	32	0	30-130/30
95-57-8	2-Chlorophenol	ND		2650	2230	84	2610	2280	87	2	30-130/30
59-50-7	4-Chloro-3-methyl phenol	ND		2650	2380	90	2610	2450	94	3	30-130/30
120-83-2	2,4-Dichlorophenol	ND		2650	2380	90	2610	2400	92	1	30-130/30
105-67-9	2,4-Dimethylphenol	ND		2650	2400	91	2610	2370	91	1	30-130/30
51-28-5	2,4-Dinitrophenol	ND		2650	1290	49	2610	1740	67	30	30-130/30
534-52-1	4,6-Dinitro-o-cresol	ND		2650	2470	93	2610	2410	92	2	30-130/30
95-48-7	2-Methylphenol	ND		2650	2390	90	2610	2360	90	1	30-130/30
	3&4-Methylphenol	ND		5300	4890	92	5230	4820	92	1	30-130/30
88-75-5	2-Nitrophenol	ND		2650	2340	88	2610	2280	87	3	30-130/30
100-02-7	4-Nitrophenol	ND		2650	2750	104	2610	2550	98	8	30-130/30
87-86-5	Pentachlorophenol	ND		2650	2060	78	2610	2000	77	3	30-130/30
108-95-2	Phenol	ND		2650	2570	97	2610	2640	101	3	30-130/30
95-95-4	2,4,5-Trichlorophenol	ND		2650	2740	103	2610	2430	93	12	30-130/30
88-06-2	2,4,6-Trichlorophenol	ND		2650	2440	92	2610	2180	83	11	30-130/30
62-53-3	Aniline	ND		2650	1570	59	2610	1610	62	3	40-140/30
101-55-3	4-Bromophenyl phenyl ether	ND		2650	2620	99	2610	2550	98	3	40-140/30
85-68-7	Butyl benzyl phthalate	ND		2650	2540	96	2610	2560	98	1	40-140/30
100-51-6	Benzyl Alcohol	ND		2650	2050	77	2610	2000	77	2	40-140/30
91-58-7	2-Chloronaphthalene	ND		2650	2600	98	2610	2440	93	6	40-140/30
106-47-8	4-Chloroaniline	ND		2650	1660	63	2610	1730	66	4	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	ND		2650	2360	89	2610	2350	90	0	40-140/30
111-44-4	bis(2-Chloroethyl)ether	ND		2650	2380	90	2610	2370	91	0	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2650	2980	112	2610	2760	106	8	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	ND		2650	2310	87	2610	2240	86	3	40-140/30
122-66-7	1,2-Diphenylhydrazine	ND		2650	2910	110	2610	2650	101	9	40-140/30
121-14-2	2,4-Dinitrotoluene	ND		2650	2690	101	2610	2550	98	5	40-140/30
606-20-2	2,6-Dinitrotoluene	ND		2650	2450	92	2610	2460	94	0	40-140/30
91-94-1	3,3'-Dichlorobenzidine	ND		2650	2300	87	2610	2410	92	5	40-140/30
132-64-9	Dibenzofuran	ND		2650	2330	88	2610	2200	84	6	40-140/30
84-74-2	Di-n-butyl phthalate	ND		2650	2550	96	2610	2450	94	4	40-140/30
117-84-0	Di-n-octyl phthalate	ND		2650	2680	101	2610	2520	96	6	40-140/30
84-66-2	Diethyl phthalate	ND		2650	2520	95	2610	2430	93	4	40-140/30
131-11-3	Dimethyl phthalate	ND		2650	2380	90	2610	2440	93	2	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2650	2790	105	2610	2560	98	9	40-140/30
118-74-1	Hexachlorobenzene	ND		2650	2470	93	2610	2400	92	3	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41128-MS	F78611.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
OP41128-MSD	F78612.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430
MC35568-4	F78613.D	1	12/10/14	KD	12/05/14	OP41128	MSF3430

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		2650	1330	50	2610	1200	46	10	40-140/30
67-72-1	Hexachloroethane	ND		2650	2150	81	2610	2060	79	4	40-140/30
78-59-1	Isophorone	ND		2650	2290	86	2610	2140	82	7	40-140/30
88-74-4	2-Nitroaniline	ND		2650	2740	103	2610	2580	99	6	40-140/30
99-09-2	3-Nitroaniline	ND		2650	2100	79	2610	2100	80	0	40-140/30
100-01-6	4-Nitroaniline	ND		2650	2600	98	2610	2310	88	12	40-140/30
98-95-3	Nitrobenzene	ND		2650	2450	92	2610	2250	86	9	40-140/30
62-75-9	n-Nitrosodimethylamine	ND		2650	2110	80	2610	2290	88	8	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	ND		2650	2680	101	2610	2570	98	4	40-140/30
86-30-6	N-Nitrosodiphenylamine	ND		2650	2470	93	2610	2260	86	9	40-140/30
110-86-1	Pyridine	ND		2650	1500	57	2610	1720	66	14	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
367-12-4	2-Fluorophenol	90%	94%	85%	30-130%
4165-62-2	Phenol-d5	96%	99%	92%	30-130%
118-79-6	2,4,6-Tribromophenol	107%	101%	95%	30-130%
4165-60-0	Nitrobenzene-d5	98%	93%	82%	30-130%
321-60-8	2-Fluorobiphenyl	96%	90%	82%	30-130%
1718-51-0	Terphenyl-d14	97%	105%	99%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41129-MS	I93320.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
OP41129-MSD	I93321.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479
MC35568-4	I93322.D	1	12/08/14	MR	12/05/14	OP41129	MSI3479

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2650	2690	101	2610	2720	104	1	40-140/30
208-96-8	Acenaphthylene	ND		2650	2220	84	2610	2250	86	1	40-140/30
120-12-7	Anthracene	ND		2650	2750	104	2610	2710	104	1	40-140/30
56-55-3	Benzo(a)anthracene	ND		2650	3040	115	2610	2970	114	2	40-140/30
50-32-8	Benzo(a)pyrene	ND		2650	2840	107	2610	2800	107	1	40-140/30
205-99-2	Benzo(b)fluoranthene	ND		2650	2900	109	2610	2990	114	3	40-140/30
191-24-2	Benzo(g,h,i)perylene	ND		2650	2850	108	2610	2780	106	2	40-140/30
207-08-9	Benzo(k)fluoranthene	ND		2650	3030	114	2610	2780	106	9	40-140/30
218-01-9	Chrysene	ND		2650	2910	110	2610	2850	109	2	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		2650	2880	109	2610	2850	109	1	40-140/30
206-44-0	Fluoranthene	ND		2650	3010	114	2610	2980	114	1	40-140/30
86-73-7	Fluorene	ND		2650	2720	103	2610	2680	103	1	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2650	2860	108	2610	2800	107	2	40-140/30
90-12-0	1-Methylnaphthalene	ND		2650	2470	93	2610	2470	95	0	40-140/30
91-57-6	2-Methylnaphthalene	ND		2650	2600	98	2610	2610	100	0	40-140/30
85-01-8	Phenanthrene	ND		2650	2780	105	2610	2740	105	1	40-140/30
129-00-0	Pyrene	ND		2650	2750	104	2610	2720	104	1	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
4165-60-0	Nitrobenzene-d5	106%	109%	98%	30-130%
321-60-8	2-Fluorobiphenyl	102%	105%	97%	30-130%
1718-51-0	Terphenyl-d14	103%	104%	102%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3430-CC3417	**Injection Date:**	12/10/14
Lab File ID:	F78595.D	**Injection Time:**	15:32
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	56655	2.70	208370	3.72	126188	5.19	241417	6.42	256287	8.67	273965	9.97
Upper Limit [a]	113310	3.20	416740	4.22	252376	5.69	482834	6.92	512574	9.17	547930	10.47
Lower Limit [b]	28328	2.20	104185	3.22	63094	4.69	120709	5.92	128144	8.17	136983	9.47
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**
OP41108-MB	62504	2.70	212995	3.72	136068	5.19	225565	6.42	278529	8.67	255808	9.96
OP41108-BS	72545	2.70	241746	3.72	140246	5.19	278414	6.42	307231	8.67	312374	9.97
OP41108-MS	71141	2.70	240083	3.72	145402	5.19	271129	6.42	312688	8.67	311950	9.97
OP41108-MSD	64786	2.70	218200	3.72	134982	5.19	275073	6.42	321963	8.67	313907	9.97
MC35526-6	61419	2.69	219217	3.72	133202	5.19	249687	6.42	320287	8.67	311723	9.96
ZZZZZZ	66320	2.70	226955	3.72	138286	5.19	292410	6.42	344915	8.67	345451	9.96
ZZZZZZ	67913	2.70	221808	3.72	133238	5.19	241481	6.42	294144	8.67	288578	9.97
ZZZZZZ	66952	2.70	241890	3.72	144688	5.19	268937	6.42	287802	8.66	279259	9.96
ZZZZZZ	67534	2.70	241694	3.72	131042	5.19	233621	6.42	255785	8.67	253706	9.96
ZZZZZZ	68822	2.70	260525	3.72	149522	5.19	245799	6.42	264574	8.66	273367	9.96
ZZZZZZ	66266	2.70	222224	3.72	144651	5.19	260895	6.42	246679	8.66	241108	9.96
ZZZZZZ	68936	2.70	239247	3.72	151770	5.19	271297	6.42	273090	8.66	275215	9.96
ZZZZZZ	74360	2.70	270089	3.72	146481	5.19	257392	6.42	300783	8.66	287789	9.96
OP41128-MB	81906	2.70	289351	3.72	161828	5.19	299009	6.42	279860	8.66	273629	9.97
OP41128-BS	75596	2.70	267378	3.72	162109	5.19	278916	6.42	300000	8.67	298724	9.97
OP41128-MS	78431	2.70	269334	3.72	158070	5.19	267604	6.42	311286	8.67	313963	9.97
OP41128-MSD	69457	2.70	248623	3.72	157596	5.19	263389	6.42	283457	8.67	289968	9.97
MC35568-4	78815	2.70	277333	3.72	168224	5.19	296838	6.42	291649	8.67	284111	9.97
ZZZZZZ	73098	2.70	265309	3.72	161295	5.19	282861	6.42	286470	8.67	313641	9.96
ZZZZZZ	72677	2.70	254026	3.72	154592	5.19	281989	6.42	296960	8.67	281345	9.97
ZZZZZZ	73337	2.70	242665	3.72	154780	5.19	270457	6.42	271832	8.67	277274	9.96
MC35568-1	71304	2.70	252762	3.72	170059	5.19	301928	6.42	311945	8.67	297137	9.96
MC35568-2	77872	2.70	289173	3.72	179007	5.19	313793	6.42	322880	8.67	308885	9.96
MC35568-3	84843	2.70	306242	3.72	183096	5.19	307860	6.42	319287	8.66	300194	9.97
ZZZZZZ	64778	2.69	245008	3.71	151874	5.19	279903	6.42	319637	8.67	317737	9.97
ZZZZZZ	70214	2.70	243863	3.72	149109	5.19	261941	6.42	292181	8.66	293049	9.96
ZZZZZZ	59644	2.70	231422	3.72	145643	5.19	272513	6.41	316716	8.67	318725	9.96
ZZZZZZ	66132	2.69	244296	3.72	152698	5.19	284886	6.42	332076	8.67	331089	9.96
ZZZZZZ	68797	2.69	264817	3.72	158949	5.19	291463	6.42	331993	8.67	335073	9.97

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3430-CC3417	**Injection Date:**	12/10/14
Lab File ID:	F78595.D	**Injection Time:**	15:32
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3479-CC3427	**Injection Date:**	12/08/14
Lab File ID:	I93305.D	**Injection Time:**	08:13
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	298378	4.04	598643	5.08	351327	6.62	620420	7.99	456137	10.76	1163155	12.24
Upper Limit [a]	596756	4.54	1197286	5.58	702654	7.12	1240840	8.49	912274	11.26	2326310	12.74
Lower Limit [b]	149189	3.54	299322	4.58	175664	6.12	310210	7.49	228069	10.26	581578	11.74

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
OP41120-LB	277092	4.04	555397	5.08	321908	6.61	561678	7.99	417739	10.76	1059702	12.24
OP41120-MB	277092	4.04	555397	5.08	321908	6.61	561678	7.99	417739	10.76	1059702	12.24
OP41120-BS	269629	4.04	543238	5.09	311749	6.62	544346	7.99	406819	10.76	1004782	12.24
ZZZZZZ	289589	4.04	585211	5.08	337033	6.61	583442	7.99	431160	10.76	1107057	12.24
OP41088-MB	257865	4.04	516882	5.08	300331	6.62	519159	7.99	375705	10.76	950294	12.24
OP41088-BS	229497	4.04	456239	5.08	262973	6.61	451278	7.99	327134	10.76	839404	12.24
OP41088-MS	247848	4.04	496953	5.08	286624	6.62	488221	7.99	355980	10.76	911803	12.24
OP41088-MSD	250110	4.04	497207	5.08	286440	6.61	492535	7.99	354501	10.76	909446	12.24
MC35413-11	242130	4.04	484006	5.08	277223	6.61	483139	7.99	341760	10.76	882200	12.24
ZZZZZZ	254925	4.04	510822	5.08	291665	6.61	507373	7.98	358505	10.75	927180	12.23
ZZZZZZ	255869	4.04	506155	5.08	293078	6.61	503047	7.98	358302	10.76	929015	12.24
ZZZZZZ	271009	4.04	538525	5.08	309219	6.61	531906	7.98	380261	10.76	979360	12.24
ZZZZZZ	272129	4.04	539962	5.08	311381	6.61	540111	7.99	379463	10.75	981339	12.24
OP41129-MB	309304	4.04	620658	5.08	352580	6.61	605890	7.99	429503	10.76	1066991	12.24
OP41129-BS	313516	4.04	615391	5.09	357290	6.62	628058	7.99	454777	10.76	1105608	12.24
OP41129-MS	313326	4.04	614235	5.09	354923	6.62	608348	7.99	437666	10.76	1056642	12.24
OP41129-MSD	312897	4.04	621904	5.09	354178	6.62	606763	7.99	437122	10.76	1050605	12.24
MC35568-4	316428	4.04	635457	5.08	361447	6.61	619901	7.99	435628	10.76	1078680	12.24
ZZZZZZ	305624	4.04	615026	5.08	351875	6.62	603311	7.99	424422	10.76	1056489	12.24
ZZZZZZ	264117	4.06	464769	5.12	321760	6.66	552851	8.02	405083	10.76	1021868	12.24
ZZZZZZ	291084	4.04	601335	5.08	344623	6.61	594540	7.99	426417	10.76	1042777	12.24
MC35568-1	285047	4.04	594769	5.09	335300	6.62	570433	7.99	407187	10.76	1007679	12.24
MC35568-2	303218	4.04	628600	5.09	357428	6.62	603983	7.99	432569	10.76	1079223	12.24
MC35568-3	321576	4.04	654433	5.08	373770	6.61	644085	7.99	456974	10.76	1122876	12.24

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC35568-1	F78618.D	95	103	80	98	93	107
MC35568-2	F78619.D	83	92	89	87	89	103
MC35568-3	F78620.D	91	93	96	95	91	105
MC35568-4	F78613.D	85	92	95	82	82	99
OP41128-BS	F78610.D	92	99	104	92	90	108
OP41128-MB	F78609.D	90	95	90	94	89	118
OP41128-MS	F78611.D	90	96	107	98	96	97
OP41128-MSD	F78612.D	94	99	101	93	90	105

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

Semivolatile Surrogate Recovery Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35568-1	I93326.D	109	105	108
MC35568-2	I93327.D	102	99	104
MC35568-3	I93328.D	102	101	106
MC35568-4	I93322.D	98	97	102
OP41129-BS	I93319.D	109	103	105
OP41129-MB	I93318.D	106	101	103
OP41129-MS	I93320.D	106	102	103
OP41129-MSD	I93321.D	109	105	104

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MB	BB61295.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.73	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.5	0.61	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	110%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MB	YZ92498.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35568-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	36-173%

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4690-MB	AB87205.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-1, MC35568-2, MC35568-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	90%	50-130%

Method Blank Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4692-MB	AB87226.D	1	12/09/14	AF	n/a	n/a	GAB4692

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	92%	50-130%

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-BS	BB61296.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	33.1	28.4	86	59-142
106-93-4	1,2-Dibromoethane	33.1	29.3	88	56-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-BS	YZ92499.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35568-5

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	0.067	94	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	93%	36-173%
460-00-4	Bromofluorobenzene (S)	99%	36-173%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4690-BSP	AB87206.D	1	12/08/14	AF	n/a	n/a	GAB4690
GAB4690-BSD	AB87207.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-1, MC35568-2, MC35568-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	30.3	93	30.6	94	1	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	97%	97%	50-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4692-BSP	AB87227.D	1	12/09/14	AF	n/a	n/a	GAB4692
GAB4692-BSD	AB87228.D	1	12/09/14	AF	n/a	n/a	GAB4692

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	31.1	96	30.2	93	3	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	101%	99%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MS	BB61297.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
OP41183-MSD	BB61298.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
MC35568-4	BB61299.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35568-1, MC35568-2, MC35568-3, MC35568-4

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		35.2	37.8	108	35.4	36.8	104	3	40-156/27
106-93-4	1,2-Dibromoethane	ND		35.2	35.5	101	35.4	34.7	98	2	48-141/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
460-00-4	Bromofluorobenzene (S)	134%	124%	131%	61-167%
460-00-4	Bromofluorobenzene (S)	129%	120%	132%	61-167%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MS	YZ92506.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
OP41251-MSD	YZ92507.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
MC35700-18	YZ92509.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35568-5

CAS No.	Compound	MC35700-18 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	0.056	79	0.071	0.059	83	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.062	87	0.071	0.074	104	18	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35700-18	Limits
460-00-4	Bromofluorobenzene (S)	85%	83%	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	94%	88%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-4MS	AB87210.D	1	12/08/14	AF	n/a	n/a	GAB4690
MC35568-4MSD	AB87211.D	1	12/08/14	AF	n/a	n/a	GAB4690
MC35568-4	AB87209.D	1	12/08/14	AF	n/a	n/a	GAB4690

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-1, MC35568-2, MC35568-4

CAS No.	Compound	MC35568-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		78.5	74.0	94	78.5	73.6	94	1	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
	2,3,4-Trifluorotoluene	99%	100%	93%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35568-3MS	AB87230.D	1	12/09/14	AF	n/a	n/a	GAB4692
MC35568-3MSD	AB87231.D	1	12/09/14	AF	n/a	n/a	GAB4692
MC35568-3	AB87229.D	1	12/09/14	AF	n/a	n/a	GAB4692

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35568-3

CAS No.	Compound	MC35568-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		40.1	37.3	93	40.1	38.2	95	2	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-3	Limits
	2,3,4-Trifluorotoluene	100%	101%	92%	50-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 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]
MC35568-5	YZ92501.D	82	86
OP41251-BS	YZ92499.D	93	99
OP41251-MB	YZ92498.D	81	94
OP41251-MS	YZ92506.D	85	94
OP41251-MSD	YZ92507.D	83	94

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

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

Volatile Surrogate Recovery Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC35568-1	BB61300.D	130	119
MC35568-2	BB61301.D	141	124
MC35568-3	BB61302.D	142	124
MC35568-4	BB61299.D	131	132
OP41183-BS	BB61296.D	118	109
OP41183-MB	BB61295.D	110	109
OP41183-MS	BB61297.D	134	129
OP41183-MSD	BB61298.D	124	120

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	61-167%

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

Volatile Surrogate Recovery Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8015 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC35568-1	AB87216.D	89
MC35568-2	AB87217.D	92
MC35568-3	AB87229.D	92
MC35568-4	AB87209.D	93
GAB4690-BSD	AB87207.D	97
GAB4690-BSP	AB87206.D	97
GAB4690-MB	AB87205.D	90
GAB4692-BSD	AB87228.D	99
GAB4692-BSP	AB87227.D	101
GAB4692-MB	AB87226.D	92
MC35568-3MS	AB87230.D	100
MC35568-3MSD	AB87231.D	101
MC35568-4MS	AB87210.D	99
MC35568-4MSD	AB87211.D	100

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	50-130%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GBB3368-CC3368	**Injection Date:**	12/11/14
Lab File ID:	BB61294.D	**Injection Time:**	11:30
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.93	4.06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41183-MB	BB61295.D	12/11/14	11:51	3.92	4.06
OP41183-BS	BB61296.D	12/11/14	12:12	3.93	4.06
OP41183-MS	BB61297.D	12/11/14	12:34	3.92	4.06
OP41183-MSD	BB61298.D	12/11/14	12:56	3.92	4.06
MC35568-4	BB61299.D	12/11/14	13:47	3.92	4.06
MC35568-1	BB61300.D	12/11/14	14:08	3.92	4.06
MC35568-2	BB61301.D	12/11/14	14:29	3.92	4.06
MC35568-3	BB61302.D	12/11/14	14:51	3.92	4.06
ZZZZZZ	BB61303.D	12/11/14	15:12	3.92	4.06
ZZZZZZ	BB61304.D	12/11/14	15:33	3.92	4.06

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GYZ7687-ICC7687	**Injection Date:**	12/15/14
Lab File ID:	YZ92494.D	**Injection Time:**	17:51
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.36	3.49

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41251-MB	YZ92498.D	12/15/14	18:56	3.36	3.50
OP41251-BS	YZ92499.D	12/15/14	19:12	3.36	3.49
ZZZZZZ	YZ92500.D	12/15/14	19:28	3.36	3.50
MC35568-5	YZ92501.D	12/15/14	19:45	3.36	3.50
ZZZZZZ	YZ92502.D	12/15/14	20:01	3.36	3.49
ZZZZZZ	YZ92503.D	12/15/14	20:17	3.36	3.49
ZZZZZZ	YZ92504.D	12/15/14	20:34	3.36	3.49
ZZZZZZ	YZ92505.D	12/15/14	20:50	3.36	3.49
OP41251-MS	YZ92506.D	12/15/14	21:07	3.36	3.49
OP41251-MSD	YZ92507.D	12/15/14	21:23	3.36	3.50

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: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4690-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87204.D	**Injection Time:**	08:16
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4691-MB	AB87205A.D	12/08/14	08:53	20.28
GAB4690-MB	AB87205.D	12/08/14	08:53	20.28
GAB4690-BSP	AB87206.D	12/08/14	09:30	20.28
GAB4691-BSP	AB87206A.D	12/08/14	09:30	20.28
GAB4690-BSD	AB87207.D	12/08/14	10:07	20.28
GAB4691-BSD	AB87207A.D	12/08/14	10:07	20.28
MC35577-5	AB87208.D	12/08/14	10:44	20.29
MC35568-4	AB87209.D	12/08/14	11:21	20.29
MC35568-4MS	AB87210.D	12/08/14	11:58	20.29
MC35568-4MSD	AB87211.D	12/08/14	12:35	20.29
MC35577-5MS	AB87212.D	12/08/14	13:12	20.29
MC35577-5MSD	AB87213.D	12/08/14	13:50	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4691-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87204A.D	**Injection Time:**	08:16
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4691-MB	AB87205A.D	12/08/14	08:53	20.28
GAB4690-MB	AB87205.D	12/08/14	08:53	20.28
GAB4690-BSP	AB87206.D	12/08/14	09:30	20.28
GAB4691-BSP	AB87206A.D	12/08/14	09:30	20.28
GAB4690-BSD	AB87207.D	12/08/14	10:07	20.28
GAB4691-BSD	AB87207A.D	12/08/14	10:07	20.28
MC35577-5	AB87208.D	12/08/14	10:44	20.29
MC35568-4	AB87209.D	12/08/14	11:21	20.29
MC35568-4MS	AB87210.D	12/08/14	11:58	20.29
MC35568-4MSD	AB87211.D	12/08/14	12:35	20.29
MC35577-5MS	AB87212.D	12/08/14	13:12	20.29
MC35577-5MSD	AB87213.D	12/08/14	13:50	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4691-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87214A.D	**Injection Time:**	14:27
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
ZZZZZZ	AB87215.D	12/08/14	15:03	20.28
MC35568-1	AB87216.D	12/08/14	15:40	20.28
MC35568-2	AB87217.D	12/08/14	16:17	20.28
ZZZZZZ	AB87219.D	12/08/14	17:31	20.29
ZZZZZZ	AB87220.D	12/08/14	18:07	20.28
ZZZZZZ	AB87221.D	12/08/14	18:43	20.28
ZZZZZZ	AB87222.D	12/08/14	19:20	20.28

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4690-CC4654	**Injection Date:**	12/08/14
Lab File ID:	AB87214.D	**Injection Time:**	14:27
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
ZZZZZZ	AB87215.D	12/08/14	15:03	20.28
MC35568-1	AB87216.D	12/08/14	15:40	20.28
MC35568-2	AB87217.D	12/08/14	16:17	20.28
ZZZZZZ	AB87219.D	12/08/14	17:31	20.29
ZZZZZZ	AB87220.D	12/08/14	18:07	20.28
ZZZZZZ	AB87221.D	12/08/14	18:43	20.28
ZZZZZZ	AB87222.D	12/08/14	19:20	20.28

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4692-CC4654	**Injection Date:**	12/09/14
Lab File ID:	AB87225.D	**Injection Time:**	07:55
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4692-MB	AB87226.D	12/09/14	08:33	20.29
GAB4692-BSP	AB87227.D	12/09/14	09:10	20.29
GAB4692-BSD	AB87228.D	12/09/14	09:47	20.29
MC35568-3	AB87229.D	12/09/14	10:24	20.30
MC35568-3MS	AB87230.D	12/09/14	11:01	20.29
MC35568-3MSD	AB87231.D	12/09/14	11:38	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC35568
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample: MC35568-1 **Analyzed:** 05-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P93C-50-120414

Wet Weight (Total)	38.844	g
Tare Weight	26.196	g
Dry Weight (Total)	36.614	g
Solids, Percent	82.4	%

Sample: MC35568-2 **Analyzed:** 05-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P93C-50-120414-DUP

Wet Weight (Total)	35.324	g
Tare Weight	23.636	g
Dry Weight (Total)	33.572	g
Solids, Percent	85	%

Sample: MC35568-3 **Analyzed:** 05-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P93C-94-120414

Wet Weight (Total)	32.9	g
Tare Weight	21.967	g
Dry Weight (Total)	31.376	g
Solids, Percent	86.1	%

Sample: MC35568-4 **Analyzed:** 05-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P93C-40-120414

Wet Weight (Total)	30.112	g
Tare Weight	23.431	g
Dry Weight (Total)	29.701	g
Solids, Percent	93.8	%

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

21563721.02009

SGS Accutest Job Number: MC35641



Sampling Date: 12/08/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 136

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

October 28, 2016

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

RE: SGS Accutest Job # MC35641

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: MC35641

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC35641-1	12/08/14	11:20	MMBK	12/09/14	SO	Soil	P57-40-120814
MC35641-2	12/08/14	11:25	MMBK	12/09/14	SO	Soil	P57-50-120814
MC35641-3	12/08/14	11:30	MMBK	12/09/14	SO	Soil	P57-20-120814
MC35641-4	12/08/14	08:00	MMBK	12/09/14	AQ	Trip Blank Water	TB-120814-ST
MC35641-5	12/08/14	08:00	MMBK	12/09/14	AQ	Trip Blank Water	TB-120814-HCL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3564

Site: URSMOSTL:Roxana WRR We Rep acement, 900 Centra Avenue, **Report Date** 0/28/20 6 3:04:07 P

3 Samp e(s), 2 Tr p B ank(s) were co ected on 2/08/20 4 and were rece ved at SGS Accutest New Eng and on 2/09/20 4 proper y preserved, at 0 5 Deg C and ntact These Samp es rece ved a job number of MC3564 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 8260C

Matrix: AQ **Batch ID:** MSU 058

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC35963-6MS, MC35963-6MSD 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 ,4-D oxane, Bromomethane, V ny Acetate, V ny ch or de are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,4-D oxane, 2-Butanone (MEK), 2-Hexanone, 4-Methy -2-pentanone (MIBK), Acetone, D ch orod f uoromethane, Ethy methac y ate 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 ,4-D oxane, 2-Hexanone, Bromomethane, Ch oromethane, D ch orod f uoromethane, Tr ch orof uoromethane, V ny ch or de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for 2-Butanone (MEK), Acetone are outs de contro m ts for samp e MC35963-6MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC3564 -5 for 2-Butanone (MEK): Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -5 for Carbon d su f de: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -5 for Acetone: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -5 for V ny Acetate: 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
- MC3564 -5 for Acry on tr e: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: SO **Batch ID:** MSK2649

- 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) MC35638- MS, MC35638- MSD were used as the QC samp es nd cated
- MSK2649-BS/BSD Recovery(s) for V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,4-D oxane, Acetone, Acro e n, V ny Acetate 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 Acetone, Acro e n, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- MC3564 -2 for Acetone, Bromomethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -2 for Ch oroethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -2 for Ch oromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC3564 -2 for D ch orod f uoromethane: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: SO **Batch ID:** MSM25 4

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3564 - MS, MC3564 - MSD were used as the QC samp es nd cated

Volatiles by GCMS By Method SW846 8260C

Matrix: SO **Batch ID:** MSM25_4

- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for Acetone, Acro e n, Bromoform, D ch orod f uoromethane, V ny Acetate are outs de contro m ts
- Matr x Sp ke Recovery(s) for , , ,2-Tetrach oroethane, , ,2,2-Tetrach oroethane, , ,2-Tr ch oroethane, ,2,3-Tr ch orobenzene, ,2,4-Tr ch orobenzene, ,2,4-Tr methy benzene, ,2-D ch orobenzene, ,3,5-Tr methy benzene, ,3-D ch orobenzene, ,3-D ch oropropane, ,4-D ch orobenzene, 2,2-D ch oropropane, 2-Hexanone, 4-Methy -2-pentanone (MIBK), Acetone, Acro e n, Benzene, Bromobenzene, Bromomethane, Ch oroethane, Ch oromethane, D bromoch oromethane, D ch orod f uoromethane, Ethy methac y ate, Ethy benzene, Hexach orobutad ene, Isopropy benzene, m,p-Xy ene, n-Buty benzene, n-Propy benzene, Naphtha ene, o-Ch oroto uene, o-Xy ene, p-Ch oroto uene, p-Isopropy to uene, sec-Buty benzene, Styrene, te t-Buty benzene, Tetrach oroethene, Tr ch orof uoromethane, V ny Acetate, V ny ch or de, Xy ene (tota) 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, ,2,3-Tr ch orobenzene, ,2,4-Tr ch orobenzene, ,2-D ch orobenzene, ,3-D ch orobenzene, ,4-D ch orobenzene, 2,2-D ch oropropane, Benzene, Bromomethane, Ch oromethane, D ch orod f uoromethane, Hexach orobutad ene, Styrene, Tetrach oroethene, To uene, Tr ch orof uoromethane, V ny ch or de, , ,2,2-Tetrach oroethane, , ,2-Tr ch oroethane, ,2,3-Tr ch oropropane, 2-Butanone (MEK), 2-Ch oroethy v ny ether, 4-Methy -2-pentanone (MIBK), Acro e n, Ch orobenzene, Ethy methacry ate, Isopropy benzene, n-Propy benzene, p-Isopropy to uene, sec-Buty benzene, te t-Buty benzene, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for , ,2,2-Tetrach oroethane, , ,2-Tr ch oroethane, ,2,3-Tr ch oropropane, ,2,4-Tr methy benzene, ,3,5-Tr methy benzene, 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, 4-Methy -2-pentanone (MIBK), Acetone, Acro e n, Bromobenzene, Ch orobenzene, Ethy methacry ate, Ethy benzene, Isopropy benzene, m,p-Xy ene, n-Buty benzene, n-Propy benzene, Naphtha ene, o-Ch oroto uene, o-Xy ene, p-Ch oroto uene, p-Isopropy to uene, sec-Buty benzene, te t-Buty benzene, V ny Acetate, Xy ene (tota) are outs de contro m ts for samp e MC3564 - MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC3564 - MS/MSD for 4-Bromof uorobenzene: Outs de contro m ts due to poss b e matr x nte ference Conf rmed by MS/MSD
- Acro e n: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP4 80

- 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) MC3564 - MS, MC3564 - 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
- OP4 80-MS/MSD Recovery(s) for Benzo c ac d 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
- In t a ca brat on ver f cat on MSF34 7-ICV34 7 for Hexach orocyc opentad ene exc eed 30% D fference
- MC3564 -2: Conf rmat on un for surrogate recover es
- MC3564 -2 for N trobenzene-d5: Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- OP4 80-BS for 2,4,6-Tr bromopheno , Terpheny -d 4: Outs de contro m ts Ind v dua sp ke recover es w th n acceptance m ts
- OP4 80-MSD for 2,4,6-Tr bromopheno : Outs de contro m ts Ind v dua sp ke recover es w th n acceptance m ts
- MC3564 -2 for 2,4,6-Tr bromopheno , Terpheny -d 4: Outs de contro m ts due to d ut on

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: SO	Batch ID: OP4 8

- 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) MC3564 - MS, MC3564 - 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
- Samp e(s) MC3564 - have compounds reported w th "D" qua f ers nd cat ng resu ts from the d uted ana ys s
- Matr x Sp ke Dup cate Recove y(s) for 2-Methy naphtha 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
- Ca brat on standard MSI3483-ICV3483 not assoc ated w th th s job
- OP4 8 -BS for Terpheny -d 4: Outs de contro m ts Ind v dua sp ke recover es w th n acceptance m ts
- OP4 8 -MB for Terpheny -d 4: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- OP4 8 -BS for 2,4,6-Tr bromopheno : Outs de contro m ts Ind v dua sp ke recover es w th n acceptance m ts
- OP4 8 -MSD for Terpheny -d 4: Outs de contro m ts Resu ts conf rmed by reana ys s
- OP4 8 -MSD for 2,4,6-Tr bromopheno : Outs de contro m ts Resu ts conf rmed by reana ys s

Matrix: SO	Batch ID: OP4 345

- 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) MC3564 -2MS, MC3564 -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

Volatiles by GC By Method SW846 8011

Matrix: AQ	Batch ID: OP4 25

- 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) MC35700- 8MS, MC35700- 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

Matrix: SO	Batch ID: OP4 83

- 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) MC35568-4MS, MC35568-4MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8015

Matrix: SO	Batch ID: GAB4693

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3564 -2MS, MC3564 -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

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO	Batch ID: GN49379

- Samp e(s) MC3564 - DUP were used as the QC samp es for So ds, Percent

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(MC3564)

Summary of Hits

Job Number: MC35641
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35641-1	P57-40-120814					
Benzene		0.0163	0.00056	0.00038	mg/kg	SW846 8260C
n-Butylbenzene		0.0103	0.0056	0.00027	mg/kg	SW846 8260C
sec-Butylbenzene		0.0047 J	0.0056	0.00084	mg/kg	SW846 8260C
Ethylbenzene		0.0693	0.0022	0.00077	mg/kg	SW846 8260C
Isopropylbenzene		0.0113	0.0056	0.00019	mg/kg	SW846 8260C
p-Isopropyltoluene		0.0053 J	0.0056	0.00020	mg/kg	SW846 8260C
Naphthalene		0.0508	0.0056	0.00044	mg/kg	SW846 8260C
n-Propylbenzene		0.0154	0.0056	0.00017	mg/kg	SW846 8260C
Toluene		0.0235	0.0056	0.00023	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		0.101	0.0056	0.0016	mg/kg	SW846 8260C
1,3,5-Trimethylbenzene		0.0319	0.0056	0.0017	mg/kg	SW846 8260C
m,p-Xylene		0.0949	0.0022	0.00049	mg/kg	SW846 8260C
o-Xylene		0.0293	0.0022	0.00032	mg/kg	SW846 8260C
Xylene (total)		0.124	0.0022	0.00025	mg/kg	SW846 8260C
Total TIC, Volatile		2.768 J			mg/kg	
Dibenzofuran		0.138	0.10	0.014	mg/kg	SW846 8270D
Acenaphthene		0.0867	0.0052	0.00089	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.0247	0.0052	0.00079	mg/kg	SW846 8270D BY SIM
Anthracene		0.0544	0.0052	0.0011	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0106	0.0052	0.0024	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.0025 J	0.0052	0.0021	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0074	0.0052	0.0023	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0020 J	0.0052	0.0014	mg/kg	SW846 8270D BY SIM
Chrysene		0.0239	0.0052	0.0014	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0127	0.0052	0.0015	mg/kg	SW846 8270D BY SIM
Fluorene		0.159	0.0052	0.0010	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		2.32	0.10	0.026	mg/kg	SW846 8270D BY SIM
2-Methylnaphthalene		3.73	0.10	0.026	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.469	0.0052	0.0011	mg/kg	SW846 8270D BY SIM
Pyrene		0.0436	0.0052	0.0016	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		31.1	6.4	0.94	mg/kg	SW846 8015
MC35641-2	P57-50-120814					
Benzene		665	1.4	0.92	mg/kg	SW846 8260C
n-Butylbenzene		18.4	14	0.66	mg/kg	SW846 8260C
sec-Butylbenzene		7.32 J	14	2.0	mg/kg	SW846 8260C
Ethylbenzene		14.3	5.5	1.9	mg/kg	SW846 8260C
Isopropylbenzene		6.11 J	14	0.46	mg/kg	SW846 8260C
p-Isopropyltoluene		9.93 J	14	0.47	mg/kg	SW846 8260C
Naphthalene		24.0	14	1.1	mg/kg	SW846 8260C
n-Propylbenzene		11.7 J	14	0.41	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		124	14	3.9	mg/kg	SW846 8260C

Summary of Hits

Job Number: MC35641
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene		31.4	14	4.1	mg/kg	SW846 8260C
m,p-Xylene		3.77 J	5.5	1.2	mg/kg	SW846 8260C
Xylene (total)		3.77 J	5.5	0.60	mg/kg	SW846 8260C
Total TIC, Volatile		787 J			mg/kg	
Phenol		1.51	0.27	0.015	mg/kg	SW846 8270D
Dibenzofuran		0.483	0.11	0.015	mg/kg	SW846 8270D
Acenaphthene		0.202	0.0054	0.00093	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.0752	0.0054	0.00082	mg/kg	SW846 8270D BY SIM
Anthracene		0.119	0.0054	0.0012	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0236	0.0054	0.0025	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.0083	0.0054	0.0021	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0141	0.0054	0.0024	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0045 J	0.0054	0.0015	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0058	0.0054	0.0017	mg/kg	SW846 8270D BY SIM
Chrysene		0.0448	0.0054	0.0015	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0447	0.0054	0.0016	mg/kg	SW846 8270D BY SIM
Fluorene		0.462	0.0054	0.0011	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0031 J	0.0054	0.0013	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		8.18	0.54	0.13	mg/kg	SW846 8270D BY SIM
2-Methylnaphthalene		13.0	0.54	0.13	mg/kg	SW846 8270D BY SIM
Phenanthrene		1.14	0.0054	0.0011	mg/kg	SW846 8270D BY SIM
Pyrene		0.115	0.0054	0.0017	mg/kg	SW846 8270D BY SIM
MC35641-3	**P57-20-120814**					
Benzene		0.0014	0.00057	0.00038	mg/kg	SW846 8260C
n-Butylbenzene		0.00064 J	0.0057	0.00027	mg/kg	SW846 8260C
Ethylbenzene		0.0035	0.0023	0.00078	mg/kg	SW846 8260C
Isopropylbenzene		0.00072 J	0.0057	0.00019	mg/kg	SW846 8260C
p-Isopropyltoluene		0.00035 J	0.0057	0.00020	mg/kg	SW846 8260C
Naphthalene		0.0017 J	0.0057	0.00045	mg/kg	SW846 8260C
n-Propylbenzene		0.00097 J	0.0057	0.00017	mg/kg	SW846 8260C
Toluene		0.0022 J	0.0057	0.00023	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		0.0035 J	0.0057	0.0016	mg/kg	SW846 8260C
m,p-Xylene		0.0027	0.0023	0.00050	mg/kg	SW846 8260C
o-Xylene		0.00072 J	0.0023	0.00032	mg/kg	SW846 8260C
Xylene (total)		0.0034	0.0023	0.00025	mg/kg	SW846 8260C
Total TIC, Volatile		0.5426 J			mg/kg	
MC35641-4	**TB-120814-ST**					

No hits reported in this sample.

Summary of Hits

Job Number: MC35641
Account: Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Collected: 12/08/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35641-5	TB-120814-HCL					
Benzene		0.27 J	0.50	0.25	ug/l	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70709.D	1	12/18/14	AMY	n/a	n/a	MSM2514
Run #2							

	Initial Weight	Final Volume
Run #1	4.82 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.011	0.0031	mg/kg	
107-02-8	Acrolein [a]	ND	0.028	0.0099	mg/kg	
107-13-1	Acrylonitrile	ND	0.028	0.0031	mg/kg	
71-43-2	Benzene	0.0163	0.00056	0.00038	mg/kg	
108-86-1	Bromobenzene	ND	0.0056	0.00028	mg/kg	
74-97-5	Bromochloromethane	ND	0.0056	0.00039	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0022	0.00023	mg/kg	
75-25-2	Bromoform	ND	0.0022	0.00040	mg/kg	
74-83-9	Bromomethane	ND	0.0022	0.00068	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	0.0034	mg/kg	
104-51-8	n-Butylbenzene	0.0103	0.0056	0.00027	mg/kg	
135-98-8	sec-Butylbenzene	0.0047	0.0056	0.00084	mg/kg	J
98-06-6	tert-Butylbenzene	ND	0.0056	0.00024	mg/kg	
75-15-0	Carbon disulfide	ND	0.0056	0.00015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0022	0.00025	mg/kg	
108-90-7	Chlorobenzene	ND	0.0022	0.00018	mg/kg	
75-00-3	Chloroethane	ND	0.0056	0.00085	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.0056	0.0014	mg/kg	
67-66-3	Chloroform	ND	0.0022	0.00019	mg/kg	
74-87-3	Chloromethane	ND	0.0056	0.00063	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0056	0.00022	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0056	0.00030	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0022	0.00036	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0022	0.00024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0022	0.00034	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0022	0.00039	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0022	0.00091	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0022	0.00030	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0022	0.00036	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0022	0.00046	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0022	0.00051	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0022	0.00047	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0022	0.00047	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0056	0.00037	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0056	0.00063	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0056	0.00030	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0022	0.00025	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0022	0.00030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.028	0.022	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0056	0.00040	mg/kg	
100-41-4	Ethylbenzene	0.0693	0.0022	0.00077	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0056	0.00064	mg/kg	
591-78-6	2-Hexanone	ND	0.011	0.00085	mg/kg	
98-82-8	Isopropylbenzene	0.0113	0.0056	0.00019	mg/kg	
99-87-6	p-Isopropyltoluene	0.0053	0.0056	0.00020	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0022	0.00020	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0056	0.00061	mg/kg	
74-95-3	Methylene bromide	ND	0.0056	0.00051	mg/kg	
75-09-2	Methylene chloride	ND	0.0022	0.00060	mg/kg	
91-20-3	Naphthalene	0.0508	0.0056	0.00044	mg/kg	
103-65-1	n-Propylbenzene	0.0154	0.0056	0.00017	mg/kg	
100-42-5	Styrene	ND	0.0056	0.00019	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0056	0.00045	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0022	0.00044	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0022	0.00035	mg/kg	
108-88-3	Toluene	0.0235	0.0056	0.00023	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0056	0.00048	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0056	0.00057	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0022	0.00024	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0022	0.00064	mg/kg	
79-01-6	Trichloroethene	ND	0.0022	0.00027	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0022	0.00045	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0056	0.00032	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.101	0.0056	0.0016	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0319	0.0056	0.0017	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0056	0.0017	mg/kg	
75-01-4	Vinyl chloride	ND	0.0022	0.0010	mg/kg	
	m,p-Xylene	0.0949	0.0022	0.00049	mg/kg	
95-47-6	o-Xylene	0.0293	0.0022	0.00032	mg/kg	
1330-20-7	Xylene (total)	0.124	0.0022	0.00025	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	98%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
106-97-8	Butane	5.09	.016	mg/kg	JN
78-78-4	Butane, 2-methyl-	6.06	.013	mg/kg	JN
109-66-0	Pentane	6.47	.018	mg/kg	JN
107-83-5	Pentane, 2-methyl-	7.83	.061	mg/kg	JN
1071-81-4	Hexane, 2,2,5,5-tetramethyl-	10.42	.17	mg/kg	JN
142-82-5	Heptane	10.50	.18	mg/kg	JN
108-87-2	Cyclohexane, methyl-	11.17	.37	mg/kg	JN
565-75-3	Pentane, 2,3,4-trimethyl-	11.62	.19	mg/kg	JN
17301-94-9	Nonane, 4-methyl-	11.77	.42	mg/kg	JN
589-81-1	Heptane, 3-methyl-	11.92	.18	mg/kg	JN
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	12.23	.19	mg/kg	JN
111-65-9	Octane	12.35	.46	mg/kg	JN
1678-91-7	Cyclohexane, ethyl-	13.20	.24	mg/kg	JN
111-84-2	Nonane	13.97	.26	mg/kg	JN
	Total TIC, Volatile		2.768	mg/kg	J

(a) Continuing Calibration 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:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78710.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.52	0.065	mg/kg	
95-57-8	2-Chlorophenol	ND	0.26	0.012	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.52	0.013	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.52	0.015	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.52	0.084	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.52	0.065	mg/kg	
95-48-7	2-Methylphenol	ND	0.52	0.021	mg/kg	
	3&4-Methylphenol	ND	0.52	0.025	mg/kg	
88-75-5	2-Nitrophenol	ND	0.52	0.014	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.097	mg/kg	
87-86-5	Pentachlorophenol	ND	0.52	0.036	mg/kg	
108-95-2	Phenol	ND	0.26	0.015	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.52	0.013	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.52	0.013	mg/kg	
62-53-3	Aniline	ND	0.52	0.026	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.26	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.26	0.011	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.52	0.026	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.26	0.014	mg/kg	
106-47-8	4-Chloroaniline	ND	0.52	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.26	0.012	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.26	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.26	0.019	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.26	0.016	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.26	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.52	0.035	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.52	0.013	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.26	0.026	mg/kg	
132-64-9	Dibenzofuran	0.138	0.10	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.26	0.027	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.26	0.0081	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.26	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.26	0.015	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.26	0.0096	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.26	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.52	0.13	mg/kg	
67-72-1	Hexachloroethane	ND	0.26	0.012	mg/kg	
78-59-1	Isophorone	ND	0.26	0.012	mg/kg	
88-74-4	2-Nitroaniline	ND	0.52	0.013	mg/kg	
99-09-2	3-Nitroaniline	ND	0.52	0.028	mg/kg	
100-01-6	4-Nitroaniline	ND	0.52	0.013	mg/kg	
98-95-3	Nitrobenzene	ND	0.26	0.014	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.26	0.012	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.26	0.015	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.26	0.016	mg/kg	
110-86-1	Pyridine	ND	0.52	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	108%		30-130%
4165-62-2	Phenol-d5	114%		30-130%
118-79-6	2,4,6-Tribromophenol	119%		30-130%
4165-60-0	Nitrobenzene-d5	122%		30-130%
321-60-8	2-Fluorobiphenyl	100%		30-130%
1718-51-0	Terphenyl-d14	113%		30-130%

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

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

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93433.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484
Run #2							

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.0867	0.0052	0.00089	mg/kg	
208-96-8	Acenaphthylene	0.0247	0.0052	0.00079	mg/kg	
120-12-7	Anthracene	0.0544	0.0052	0.0011	mg/kg	
56-55-3	Benzo(a)anthracene	0.0106	0.0052	0.0024	mg/kg	
50-32-8	Benzo(a)pyrene	0.0025	0.0052	0.0021	mg/kg	J
205-99-2	Benzo(b)fluoranthene	0.0074	0.0052	0.0023	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0020	0.0052	0.0014	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.0052	0.0016	mg/kg	
218-01-9	Chrysene	0.0239	0.0052	0.0014	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0052	0.0015	mg/kg	
206-44-0	Fluoranthene	0.0127	0.0052	0.0015	mg/kg	
86-73-7	Fluorene	0.159	0.0052	0.0010	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0052	0.0013	mg/kg	
90-12-0	1-Methylnaphthalene	2.32	0.10	0.026	mg/kg	
91-57-6	2-Methylnaphthalene	3.73	0.10	0.026	mg/kg	
85-01-8	Phenanthrene	0.469	0.0052	0.0011	mg/kg	
129-00-0	Pyrene	0.0436	0.0052	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	94%		15-110%
4165-62-2	Phenol-d5	107%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	91%		30-130%
321-60-8	2-Fluorobiphenyl	89%		30-130%
1718-51-0	Terphenyl-d14	127%		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:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61303.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0027	0.00078	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0027	0.00065	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	130%		61-167%
460-00-4	Bromofluorobenzene (S)	122%		61-167%

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

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

Report of Analysis

Client Sample ID:	P57-40-120814		
Lab Sample ID:	MC35641-1	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8015	**Percent Solids:**	92.4
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87245.D	1	12/10/14	AF	n/a	n/a	GAB4693
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.08 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	31.1	6.4	0.94	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	96%		50-130%

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:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K84413.D	1	12/11/14	JM	n/a	n/a	MSK2649
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.67 g	10.0 ml	2.5 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	27	7.6	mg/kg	
107-02-8	Acrolein	ND	68	24	mg/kg	
107-13-1	Acrylonitrile	ND	68	7.5	mg/kg	
71-43-2	Benzene	665	1.4	0.92	mg/kg	
108-86-1	Bromobenzene	ND	14	0.68	mg/kg	
74-97-5	Bromochloromethane	ND	14	0.94	mg/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.57	mg/kg	
75-25-2	Bromoform	ND	5.5	0.97	mg/kg	
74-83-9	Bromomethane [a]	ND	5.5	1.6	mg/kg	
78-93-3	2-Butanone (MEK)	ND	27	8.4	mg/kg	
104-51-8	n-Butylbenzene	18.4	14	0.66	mg/kg	
135-98-8	sec-Butylbenzene	7.32	14	2.0	mg/kg	J
98-06-6	tert-Butylbenzene	ND	14	0.58	mg/kg	
75-15-0	Carbon disulfide	ND	14	0.36	mg/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.60	mg/kg	
108-90-7	Chlorobenzene	ND	5.5	0.43	mg/kg	
75-00-3	Chloroethane [a]	ND	14	2.1	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	14	3.4	mg/kg	
67-66-3	Chloroform	ND	5.5	0.46	mg/kg	
74-87-3	Chloromethane [a]	ND	14	1.5	mg/kg	
95-49-8	o-Chlorotoluene	ND	14	0.52	mg/kg	
106-43-4	p-Chlorotoluene	ND	14	0.73	mg/kg	
124-48-1	Dibromochloromethane	ND	5.5	0.88	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	0.58	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	0.82	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	0.94	mg/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	5.5	2.2	mg/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.73	mg/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	0.88	mg/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	1.1	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	1.2	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	1.1	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5.5	1.1	mg/kg	
142-28-9	1,3-Dichloropropane	ND	14	0.89	mg/kg	
594-20-7	2,2-Dichloropropane	ND	14	1.5	mg/kg	
563-58-6	1,1-Dichloropropene	ND	14	0.72	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	0.62	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	0.72	mg/kg	
123-91-1	1,4-Dioxane	ND	68	55	mg/kg	
97-63-2	Ethyl methacrylate	ND	14	0.97	mg/kg	
100-41-4	Ethylbenzene	14.3	5.5	1.9	mg/kg	
87-68-3	Hexachlorobutadiene	ND	14	1.6	mg/kg	
591-78-6	2-Hexanone	ND	27	2.1	mg/kg	
98-82-8	Isopropylbenzene	6.11	14	0.46	mg/kg	J
99-87-6	p-Isopropyltoluene	9.93	14	0.47	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	0.50	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	14	1.5	mg/kg	
74-95-3	Methylene bromide	ND	14	1.2	mg/kg	
75-09-2	Methylene chloride	ND	5.5	1.4	mg/kg	
91-20-3	Naphthalene	24.0	14	1.1	mg/kg	
103-65-1	n-Propylbenzene	11.7	14	0.41	mg/kg	J
100-42-5	Styrene	ND	14	0.46	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	14	1.1	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	1.1	mg/kg	
127-18-4	Tetrachloroethene	ND	5.5	0.85	mg/kg	
108-88-3	Toluene	ND	14	0.56	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	14	1.2	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	14	1.4	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.59	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	1.6	mg/kg	
79-01-6	Trichloroethene	ND	5.5	0.67	mg/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	1.1	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	14	0.78	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	124	14	3.9	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	31.4	14	4.1	mg/kg	
108-05-4	Vinyl Acetate	ND	14	4.2	mg/kg	
75-01-4	Vinyl chloride	ND	5.5	2.5	mg/kg	
	m,p-Xylene	3.77	5.5	1.2	mg/kg	J
95-47-6	o-Xylene	ND	5.5	0.77	mg/kg	
1330-20-7	Xylene (total)	3.77	5.5	0.60	mg/kg	J

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

Report of Analysis

Client Sample ID:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	108%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
96-37-7	Cyclopentane, methyl-	8.62	38	mg/kg	JN
49622-18-6	Decane, 3,3,4-trimethyl-	11.04	59	mg/kg	JN
52896-95-4	Heptane, 2,3,4-trimethyl-	11.19	120	mg/kg	JN
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	11.65	40	mg/kg	JN
1678-91-7	Cyclohexane, ethyl-	12.60	38	mg/kg	JN
2051-30-1	Octane, 2,6-dimethyl-	13.94	53	mg/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	14.93	43	mg/kg	JN
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	16.19	44	mg/kg	JN
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	16.24	40	mg/kg	JN
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	16.30	55	mg/kg	JN
934-10-1	3-Phenylbut-1-ene	16.44	49	mg/kg	JN
535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	16.81	50	mg/kg	JN
95-93-2	Benzene, 1,2,4,5-tetramethyl-	16.86	63	mg/kg	JN
824-90-8	1-Phenyl-1-butene	17.28	54	mg/kg	JN
17059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethyl-	17.77	41	mg/kg	JN
	Total TIC, Volatile		787	mg/kg	J

(a) Continuing Calibration 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:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78727.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
Run #2 [a]	F78776.D	5	12/16/14	KD	12/10/14	OP41180	MSF3434

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2	20.3 g	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.54	0.068	mg/kg	
95-57-8	2-Chlorophenol	ND	0.27	0.012	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.54	0.014	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.54	0.016	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.54	0.088	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.54	0.068	mg/kg	
95-48-7	2-Methylphenol	ND	0.54	0.021	mg/kg	
	3&4-Methylphenol	ND	0.54	0.026	mg/kg	
88-75-5	2-Nitrophenol	ND	0.54	0.014	mg/kg	
100-02-7	4-Nitrophenol	ND	1.1	0.10	mg/kg	
87-86-5	Pentachlorophenol	ND	0.54	0.038	mg/kg	
108-95-2	Phenol	1.51	0.27	0.015	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.54	0.014	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.54	0.013	mg/kg	
62-53-3	Aniline	ND	0.54	0.027	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.27	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.27	0.011	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.54	0.027	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.27	0.015	mg/kg	
106-47-8	4-Chloroaniline	ND	0.54	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.27	0.013	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.27	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.27	0.019	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.27	0.017	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.27	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.54	0.036	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.54	0.014	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.27	0.027	mg/kg	
132-64-9	Dibenzofuran	0.483	0.11	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.27	0.029	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.27	0.0084	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.27	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.27	0.016	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.27	0.010	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.27	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.54	0.14	mg/kg	
67-72-1	Hexachloroethane	ND	0.27	0.013	mg/kg	
78-59-1	Isophorone	ND	0.27	0.012	mg/kg	
88-74-4	2-Nitroaniline	ND	0.54	0.014	mg/kg	
99-09-2	3-Nitroaniline	ND	0.54	0.030	mg/kg	
100-01-6	4-Nitroaniline	ND	0.54	0.014	mg/kg	
98-95-3	Nitrobenzene	ND	0.27	0.015	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.27	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.27	0.015	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.27	0.016	mg/kg	
110-86-1	Pyridine	ND	0.54	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	112%	113%	30-130%
4165-62-2	Phenol-d5	114%	123%	30-130%
118-79-6	2,4,6-Tribromophenol	113%	131% [b]	30-130%
4165-60-0	Nitrobenzene-d5	154% [c]	155% [c]	30-130%
321-60-8	2-Fluorobiphenyl	102%	119%	30-130%
1718-51-0	Terphenyl-d14	123%	133% [b]	30-130%

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

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to dilution.
(c) 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:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93529.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487
Run #2	I93530.D	5	12/22/14	MR	12/19/14	OP41345	MSI3487

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2	20.4 g	1.0 ml

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.202	0.0054	0.00093	mg/kg	
208-96-8	Acenaphthylene	0.0752	0.0054	0.00082	mg/kg	
120-12-7	Anthracene	0.119	0.0054	0.0012	mg/kg	
56-55-3	Benzo(a)anthracene	0.0236	0.0054	0.0025	mg/kg	
50-32-8	Benzo(a)pyrene	0.0083	0.0054	0.0021	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0141	0.0054	0.0024	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0045	0.0054	0.0015	mg/kg	J
207-08-9	Benzo(k)fluoranthene	0.0058	0.0054	0.0017	mg/kg	
218-01-9	Chrysene	0.0448	0.0054	0.0015	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0054	0.0016	mg/kg	
206-44-0	Fluoranthene	0.0447	0.0054	0.0016	mg/kg	
86-73-7	Fluorene	0.462	0.0054	0.0011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0031	0.0054	0.0013	mg/kg	J
90-12-0	1-Methylnaphthalene	8.18 [a]	0.54	0.13	mg/kg	
91-57-6	2-Methylnaphthalene	13.0 [a]	0.54	0.13	mg/kg	
85-01-8	Phenanthrene	1.14	0.0054	0.0011	mg/kg	
129-00-0	Pyrene	0.115	0.0054	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%	89%	15-110%
4165-62-2	Phenol-d5	87%	90%	15-110%
118-79-6	2,4,6-Tribromophenol	89%	105%	15-110%
4165-60-0	Nitrobenzene-d5	78%	93%	30-130%
321-60-8	2-Fluorobiphenyl	71%	88%	30-130%
1718-51-0	Terphenyl-d14	105%	107%	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:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61304.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0027	0.00080	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0027	0.00067	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	150%		61-167%
460-00-4	Bromofluorobenzene (S)	135%		61-167%

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

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

Report of Analysis

Client Sample ID:	P57-50-120814		
Lab Sample ID:	MC35641-2	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8015	**Percent Solids:**	91.1
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87267.D	1	12/11/14	AF	n/a	n/a	GAB4693
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.81 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	6.7	0.99	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		50-130%

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:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M70710.D	1	12/18/14	AMY	n/a	n/a	MSM2514
Run #2							

	Initial Weight	Final Volume
Run #1	4.67 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.011	0.0032	mg/kg	
107-02-8	Acrolein [a]	ND	0.028	0.0099	mg/kg	
107-13-1	Acrylonitrile	ND	0.028	0.0031	mg/kg	
71-43-2	Benzene	0.0014	0.00057	0.00038	mg/kg	
108-86-1	Bromobenzene	ND	0.0057	0.00028	mg/kg	
74-97-5	Bromochloromethane	ND	0.0057	0.00039	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	0.00024	mg/kg	
75-25-2	Bromoform	ND	0.0023	0.00040	mg/kg	
74-83-9	Bromomethane	ND	0.0023	0.00068	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	0.0035	mg/kg	
104-51-8	n-Butylbenzene	0.00064	0.0057	0.00027	mg/kg	J
135-98-8	sec-Butylbenzene	ND	0.0057	0.00084	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0057	0.00024	mg/kg	
75-15-0	Carbon disulfide	ND	0.0057	0.00015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	0.00025	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	0.00018	mg/kg	
75-00-3	Chloroethane	ND	0.0057	0.00085	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.0057	0.0014	mg/kg	
67-66-3	Chloroform	ND	0.0023	0.00019	mg/kg	
74-87-3	Chloromethane	ND	0.0057	0.00064	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0057	0.00022	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0057	0.00030	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	0.00036	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0023	0.00024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0023	0.00034	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0023	0.00039	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0023	0.00092	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0023	0.00030	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0023	0.00036	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0023	0.00047	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0023	0.00051	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0023	0.00047	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0023	0.00047	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0057	0.00037	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0057	0.00064	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0057	0.00030	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	0.00026	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	0.00030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.028	0.023	mg/kg	
97-63-2	Ethyl methacrylate	ND	0.0057	0.00040	mg/kg	
100-41-4	Ethylbenzene	0.0035	0.0023	0.00078	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0057	0.00065	mg/kg	
591-78-6	2-Hexanone	ND	0.011	0.00086	mg/kg	
98-82-8	Isopropylbenzene	0.00072	0.0057	0.00019	mg/kg	J
99-87-6	p-Isopropyltoluene	0.00035	0.0057	0.00020	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0023	0.00021	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0057	0.00061	mg/kg	
74-95-3	Methylene bromide	ND	0.0057	0.00052	mg/kg	
75-09-2	Methylene chloride	ND	0.0023	0.00060	mg/kg	
91-20-3	Naphthalene	0.0017	0.0057	0.00045	mg/kg	J
103-65-1	n-Propylbenzene	0.00097	0.0057	0.00017	mg/kg	J
100-42-5	Styrene	ND	0.0057	0.00019	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0057	0.00045	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	0.00044	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	0.00035	mg/kg	
108-88-3	Toluene	0.0022	0.0057	0.00023	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0057	0.00048	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0057	0.00058	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	0.00025	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	0.00065	mg/kg	
79-01-6	Trichloroethene	ND	0.0023	0.00028	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0023	0.00045	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0057	0.00033	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0035	0.0057	0.0016	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.0057	0.0017	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0057	0.0017	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	0.0010	mg/kg	
	m,p-Xylene	0.0027	0.0023	0.00050	mg/kg	
95-47-6	o-Xylene	0.00072	0.0023	0.00032	mg/kg	J
1330-20-7	Xylene (total)	0.0034	0.0023	0.00025	mg/kg	

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

Report of Analysis

Client Sample ID:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	98%		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	5.08	.015	mg/kg	JN
78-78-4	Butane, 2-methyl-	6.06	.012	mg/kg	JN
109-66-0	Pentane	6.47	.0061	mg/kg	JN
107-83-5	Pentane, 2-methyl-	7.83	.0095	mg/kg	JN
96-37-7	Cyclopentane, methyl-	9.16	.016	mg/kg	JN
591-76-4	Hexane, 2-methyl-	9.86	.024	mg/kg	JN
590-73-8	Hexane, 2,2-dimethyl-	10.41	.064	mg/kg	JN
142-82-5	Heptane	10.50	.06	mg/kg	JN
108-87-2	Cyclohexane, methyl-	11.17	.083	mg/kg	JN
565-75-3	Pentane, 2,3,4-trimethyl-	11.62	.051	mg/kg	JN
1072-16-8	Octane, 2,7-dimethyl-	11.77	.1	mg/kg	JN
589-81-1	Heptane, 3-methyl-	11.92	.021	mg/kg	JN
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	12.23	.017	mg/kg	JN
111-65-9	Octane	12.35	.046	mg/kg	JN
3913-02-8	1-Octanol, 2-butyl-	13.97	.018	mg/kg	JN
	Total TIC, Volatile		.5426	mg/kg	J

(a) Continuing Calibration 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:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F78728.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.51	0.064	mg/kg	
95-57-8	2-Chlorophenol	ND	0.25	0.011	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.51	0.013	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.51	0.015	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.51	0.083	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.51	0.064	mg/kg	
95-48-7	2-Methylphenol	ND	0.51	0.020	mg/kg	
	3&4-Methylphenol	ND	0.51	0.025	mg/kg	
88-75-5	2-Nitrophenol	ND	0.51	0.014	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.096	mg/kg	
87-86-5	Pentachlorophenol	ND	0.51	0.036	mg/kg	
108-95-2	Phenol	ND	0.25	0.014	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.51	0.013	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.51	0.013	mg/kg	
62-53-3	Aniline	ND	0.51	0.025	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.25	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.25	0.010	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.51	0.026	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.25	0.014	mg/kg	
106-47-8	4-Chloroaniline	ND	0.51	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.25	0.012	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.25	0.016	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.25	0.018	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.25	0.016	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.25	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.51	0.034	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.51	0.013	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.25	0.025	mg/kg	
132-64-9	Dibenzofuran	ND	0.10	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.25	0.027	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.25	0.0080	mg/kg	

ND = Not detected MDL = Method Detection Limit
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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:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D SW846 3546	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.25	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.25	0.015	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.25	0.0094	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.25	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.51	0.13	mg/kg	
67-72-1	Hexachloroethane	ND	0.25	0.012	mg/kg	
78-59-1	Isophorone	ND	0.25	0.012	mg/kg	
88-74-4	2-Nitroaniline	ND	0.51	0.013	mg/kg	
99-09-2	3-Nitroaniline	ND	0.51	0.028	mg/kg	
100-01-6	4-Nitroaniline	ND	0.51	0.013	mg/kg	
98-95-3	Nitrobenzene	ND	0.25	0.014	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.25	0.012	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.25	0.015	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.25	0.015	mg/kg	
110-86-1	Pyridine	ND	0.51	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	111%		30-130%
4165-62-2	Phenol-d5	120%		30-130%
118-79-6	2,4,6-Tribromophenol	129%		30-130%
4165-60-0	Nitrobenzene-d5	110%		30-130%
321-60-8	2-Fluorobiphenyl	105%		30-130%
1718-51-0	Terphenyl-d14	122%		30-130%

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

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93537.D	1	12/22/14	MR	12/19/14	OP41345	MSI3488
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0051	0.00088	mg/kg	
208-96-8	Acenaphthylene	ND	0.0051	0.00078	mg/kg	
120-12-7	Anthracene	ND	0.0051	0.0011	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0051	0.0023	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0051	0.0020	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0051	0.0023	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0051	0.0014	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0051	0.0016	mg/kg	
218-01-9	Chrysene	ND	0.0051	0.0014	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0051	0.0015	mg/kg	
206-44-0	Fluoranthene	ND	0.0051	0.0015	mg/kg	
86-73-7	Fluorene	ND	0.0051	0.0010	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0051	0.0013	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.10	0.026	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.10	0.026	mg/kg	
85-01-8	Phenanthrene	ND	0.0051	0.0011	mg/kg	
129-00-0	Pyrene	ND	0.0051	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		15-110%
4165-62-2	Phenol-d5	83%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	102%		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:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61306.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0026	0.00077	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0026	0.00064	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	150%		61-167%
460-00-4	Bromofluorobenzene (S)	128%		61-167%

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

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

Report of Analysis

Client Sample ID:	P57-20-120814		
Lab Sample ID:	MC35641-3	**Date Sampled:**	12/08/14
Matrix:	SO - Soil	**Date Received:**	12/09/14
Method:	SW846 8015	**Percent Solids:**	94.7
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87266.D	1	12/11/14	AF	n/a	n/a	GAB4693
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.38 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	12	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		50-130%

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:	TB-120814-ST		
Lab Sample ID:	MC35641-4	**Date Sampled:**	12/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/09/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ92505.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	83%		36-173%
460-00-4	Bromofluorobenzene (S)	88%		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-120814-HCL		
Lab Sample ID:	MC35641-5	**Date Sampled:**	12/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U24859.D	1	12/21/14	AMY	n/a	n/a	MSU1058
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]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile [a]	ND	5.0	2.1	ug/l	
71-43-2	Benzene	0.27	0.50	0.25	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-120814-HCL		
Lab Sample ID:	MC35641-5	**Date Sampled:**	12/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate [b]	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	TB-120814-HCL		
Lab Sample ID:	MC35641-5	**Date Sampled:**	12/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana WRR Well Replacement, 900 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	106%		70-130%

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

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

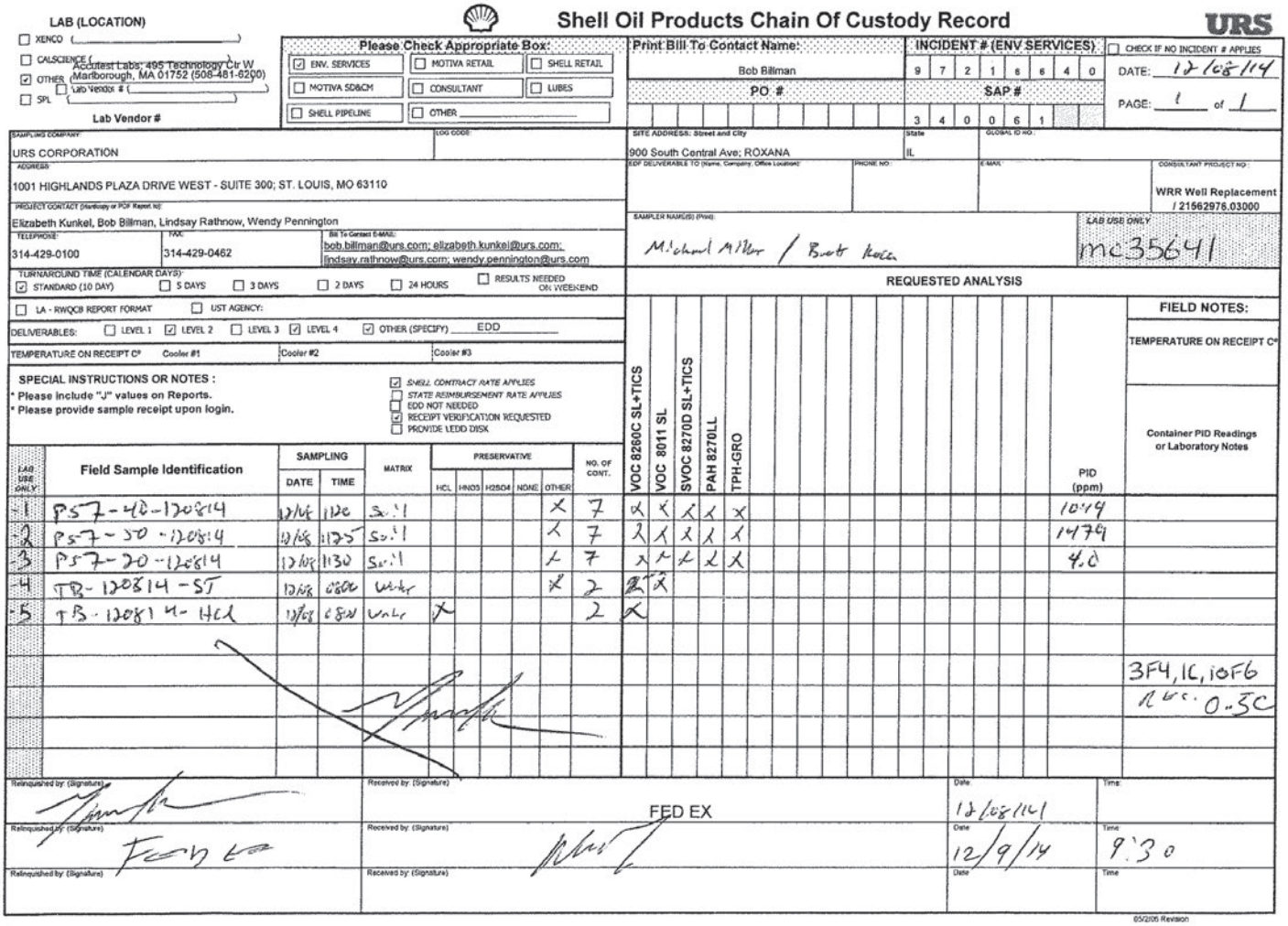
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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 #

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
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12/08/14
PO #
SAP #: 3 4 0 0 6 1
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.: WRR Well Replacement / 21562976.03000
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow, Wendy Pennington
SAMPLER NAME(S) (Print): Michael Miller / Brett Kocur
LAB USE ONLY: mc35641
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com; wendy.pennington@urs.com

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	TPH-GRO	PID (ppm)	FIELD NOTES: TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
-1	PS7-40-120814	12/8	1120	Soil					X	7	X	X	X	X	X	10.9	
-2	PS7-30-120814	12/8	1125	Soil					X	7	X	X	X	X	X	14.9	
-3	PS7-20-120814	12/8	1130	Soil					X	7	X	X	X	X	X	4.0	
-4	TB-120814-ST	12/8	0800	Water					X	2	X	X					
-5	TB-120814-HCL	12/8	0800	Water	X					2	X						
																	3F4, IC, 10F6
																	Acc. 0.5C

Relinquished by: (Signature) | Received by: (Signature) | Date | Time
FED EX | 12/08/14
Relinquished by: (Signature) | Received by: (Signature) | Date | Time
12/9/14 | 9:30
Relinquished by: (Signature) | Received by: (Signature) | Date | Time

05/2005 Revision

MC35641: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC35641 **Client:** URS **Project:** 900 SOUTH CENTRAL

Date / Time Received: 12/9/2014 9 30 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 5/0 5)

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. Thermometer D:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

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 01752
www/accutest.com

MC35641: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC35641

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35641-1 Collected: 08-DEC-14 11:20 By: MMBK Received: 09-DEC-14 By: P57-40-120814						
MC35641-1	SM 2540G-97 MOD	09-DEC-14	CF			%SOL
MC35641-1	SW846 8015	10-DEC-14 15:20	AF			V8015GRO
MC35641-1	SW846 8011	11-DEC-14 15:12	NK	10-DEC-14	AZ	V8011SL
MC35641-1	SW846 8270D	15-DEC-14 10:32	KD	10-DEC-14	AJ	AB8270SL+
MC35641-1	SW846 8270D BY SIM	17-DEC-14 11:27	MR	10-DEC-14	AJ	B8270SIMSL
MC35641-1	SW846 8260C	18-DEC-14 12:06	AMY			V8260SL+
MC35641-2 Collected: 08-DEC-14 11:25 By: MMBK Received: 09-DEC-14 By: P57-50-120814						
MC35641-2	SM 2540G-97 MOD	09-DEC-14	CF			%SOL
MC35641-2	SW846 8011	11-DEC-14 15:33	NK	10-DEC-14	AZ	V8011SL
MC35641-2	SW846 8015	11-DEC-14 18:05	AF			V8015GRO
MC35641-2	SW846 8260C	11-DEC-14 18:10	JM			V8260SL+
MC35641-2	SW846 8270D	15-DEC-14 17:04	KD	10-DEC-14	AJ	AB8270SL+
MC35641-2	SW846 8270D	16-DEC-14 19:53	KD	10-DEC-14	AJ	AB8270SL+
MC35641-2	SW846 8270D BY SIM	22-DEC-14 13:32	MR	19-DEC-14	PA	B8270SIMSL
MC35641-2	SW846 8270D BY SIM	22-DEC-14 13:56	MR	19-DEC-14	PA	B8270SIMSL
MC35641-3 Collected: 08-DEC-14 11:30 By: MMBK Received: 09-DEC-14 By: P57-20-120814						
MC35641-3	SM 2540G-97 MOD	09-DEC-14	CF			%SOL
MC35641-3	SW846 8011	11-DEC-14 16:18	NK	10-DEC-14	AZ	V8011SL
MC35641-3	SW846 8015	11-DEC-14 17:28	AF			V8015GRO
MC35641-3	SW846 8270D	15-DEC-14 17:27	KD	10-DEC-14	AJ	AB8270SL+
MC35641-3	SW846 8260C	18-DEC-14 12:36	AMY			V8260SL+
MC35641-3	SW846 8270D BY SIM	22-DEC-14 16:42	MR	19-DEC-14	PA	B8270SIMSL
MC35641-4 Collected: 08-DEC-14 08:00 By: MMBK Received: 09-DEC-14 By: TB-120814-ST						
MC35641-4	SW846 8011	15-DEC-14 20:50	NK	15-DEC-14	MT	V8011SL
MC35641-5 Collected: 08-DEC-14 08:00 By: MMBK Received: 09-DEC-14 By: TB-120814-HCL						

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC35641

URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Project No: 21563721.02009

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35641-5	SW846 8260C	21-DEC-14 13:02	AMY			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/09/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35641-1.1	Walk In Ref #5	Crystall Woodruff	12/09/14 18:50	Retrieve from Storage
MC35641-1.1	Crystall Woodruff	Walk In Ref #5	12/09/14 19:20	Return to Storage
MC35641-1.1	Walk In Ref #5	Alireza Zeighami	12/10/14 07:07	Retrieve from Storage
MC35641-1.1	Alireza Zeighami	Walk In Ref #5	12/10/14 08:44	Return to Storage
MC35641-1.1	Scott Parsick		02/05/15 11:22	Disposed
MC35641-1.4	VOC Ref #10	Amy Min Yang	12/18/14 10:17	Retrieve from Storage
MC35641-1.4	Amy Min Yang	GCMSM	12/18/14 10:17	Load on Instrument
MC35641-1.4	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35641-1.4	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35641-1.4	Scott Parsick		02/05/15 11:22	Disposed
MC35641-1.5	VOC Ref #10	Anthony Franciosa	12/10/14 07:45	Retrieve from Storage
MC35641-1.5	Anthony Franciosa	GCAB	12/10/14 07:45	Load on Instrument
MC35641-1.5	GCAB	Anthony Franciosa	12/11/14 07:51	Unload from Instrument
MC35641-1.5	Anthony Franciosa	VOC Ref #10	12/11/14 07:52	Return to Storage
MC35641-1.5	Scott Parsick		02/05/15 11:22	Disposed
MC35641-1.7	VOC Ref #10	Jaime Maslowski	12/10/14 15:24	Retrieve from Storage
MC35641-1.7	Jaime Maslowski	VOC Ref #10	12/11/14 09:48	Return to Storage
MC35641-1.7	Scott Parsick		02/05/15 11:22	Disposed
MC35641-2.1	Walk In Ref #5	Crystall Woodruff	12/09/14 18:50	Retrieve from Storage
MC35641-2.1	Crystall Woodruff	Walk In Ref #5	12/09/14 19:20	Return to Storage
MC35641-2.1	Walk In Ref #5	Alireza Zeighami	12/10/14 07:07	Retrieve from Storage
MC35641-2.1	Alireza Zeighami	Walk In Ref #5	12/10/14 08:44	Return to Storage
MC35641-2.1	Walk In Ref #5	Nicole Estey	12/19/14 14:50	Retrieve from Storage
MC35641-2.1	Nicole Estey	Walk In Ref #5	12/19/14 22:07	Return to Storage
MC35641-2.1	Scott Parsick		02/05/15 11:22	Disposed
MC35641-2.5	VOC Ref #10	Anthony Franciosa	12/10/14 07:45	Retrieve from Storage
MC35641-2.5	Anthony Franciosa	GCAB	12/10/14 07:45	Load on Instrument
MC35641-2.5	GCAB	Anthony Franciosa	12/11/14 07:51	Unload from Instrument
MC35641-2.5	Anthony Franciosa	VOC Ref #10	12/11/14 07:52	Return to Storage
MC35641-2.5	Scott Parsick		02/05/15 11:22	Disposed
MC35641-2.7	VOC Ref #10	Jaime Maslowski	12/10/14 15:24	Retrieve from Storage
MC35641-2.7	Jaime Maslowski	VOC Ref #10	12/11/14 09:48	Return to Storage
MC35641-2.7	VOC Ref #10	Jaime Maslowski	12/11/14 09:50	Retrieve from Storage
MC35641-2.7	Jaime Maslowski	VOC Ref #10	12/12/14 09:03	Return to Storage
MC35641-2.7	Scott Parsick		02/05/15 11:22	Disposed
MC35641-3.1	Walk In Ref #5	Crystall Woodruff	12/09/14 18:50	Retrieve from Storage
MC35641-3.1	Crystall Woodruff	Walk In Ref #5	12/09/14 19:20	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL
Received: 12/09/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC35641-3.1	Walk In Ref #5	Alireza Zeighami	12/10/14 07:07	Retrieve from Storage
MC35641-3.1	Alireza Zeighami	Walk In Ref #5	12/10/14 08:44	Return to Storage
MC35641-3.1	Walk In Ref #5	Nicole Estey	12/19/14 14:50	Retrieve from Storage
MC35641-3.1	Nicole Estey	Walk In Ref #5	12/19/14 22:07	Return to Storage
MC35641-3.1	Scott Parsick		02/05/15 11:22	Disposed
MC35641-3.3	VOC Ref #10	Amy Min Yang	12/18/14 10:17	Retrieve from Storage
MC35641-3.3	Amy Min Yang	GCMSM	12/18/14 10:17	Load on Instrument
MC35641-3.3	GCMSM	Amy Min Yang	12/19/14 09:58	Unload from Instrument
MC35641-3.3	Amy Min Yang	VOC Ref #10	12/19/14 09:58	Return to Storage
MC35641-3.3	Scott Parsick		02/05/15 11:22	Disposed
MC35641-3.5	VOC Ref #10	Anthony Franciosa	12/10/14 07:45	Retrieve from Storage
MC35641-3.5	Anthony Franciosa	GCAB	12/10/14 07:45	Load on Instrument
MC35641-3.5	GCAB	Anthony Franciosa	12/11/14 07:51	Unload from Instrument
MC35641-3.5	Anthony Franciosa	VOC Ref #10	12/11/14 07:52	Return to Storage
MC35641-3.5	Scott Parsick		02/05/15 11:22	Disposed
MC35641-3.7	VOC Ref #10	Jaime Maslowski	12/10/14 15:24	Retrieve from Storage
MC35641-3.7	Jaime Maslowski	VOC Ref #10	12/11/14 09:48	Return to Storage
MC35641-3.7	VOC Ref #10	Jaime Maslowski	12/11/14 09:50	Retrieve from Storage
MC35641-3.7	Jaime Maslowski	VOC Ref #10	12/12/14 09:03	Return to Storage
MC35641-3.7	Scott Parsick		02/05/15 11:22	Disposed
MC35641-4.1	VOC Ref #3	Marc Tahtamoni	12/11/14 19:28	Retrieve from Storage
MC35641-4.1	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35641-4.2	VOC Ref #3	Marc Tahtamoni	12/15/14 14:04	Retrieve from Storage
MC35641-4.2	Marc Tahtamoni		01/10/15 17:22	Depleted
MC35641-5.1	VOC Ref #3	Gary Krasinski	12/18/14 11:06	Retrieve from Storage
MC35641-5.1	Gary Krasinski	GCMSU	12/18/14 11:06	Load on Instrument
MC35641-5.1	GCMSU	Gary Krasinski	12/19/14 08:55	Unload from Instrument
MC35641-5.1	Gary Krasinski	VOC Ref #3	12/19/14 08:55	Return to Storage
MC35641-5.1	Scott Parsick		02/05/15 11:22	Disposed
MC35641-5.2	VOC Ref #3	Amy Min Yang	12/20/14 17:35	Retrieve from Storage
MC35641-5.2	Amy Min Yang	GCMSU	12/20/14 17:35	Load on Instrument
MC35641-5.2	GCMSU	Gary Krasinski	12/22/14 09:24	Unload from Instrument
MC35641-5.2	Gary Krasinski	VOC Ref #3	12/22/14 09:25	Return to Storage
MC35641-5.2	Scott Parsick		02/05/15 11:22	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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-MB	K84396.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	140	ug/kg	
107-02-8	Acrolein	ND	1300	440	ug/kg	
107-13-1	Acrylonitrile	ND	1300	140	ug/kg	
71-43-2	Benzene	ND	25	17	ug/kg	
108-86-1	Bromobenzene	ND	250	13	ug/kg	
74-97-5	Bromochloromethane	ND	250	17	ug/kg	
75-27-4	Bromodichloromethane	ND	100	10	ug/kg	
75-25-2	Bromoform	ND	100	18	ug/kg	
74-83-9	Bromomethane	ND	100	30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	150	ug/kg	
104-51-8	n-Butylbenzene	ND	250	12	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	37	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	11	ug/kg	
75-15-0	Carbon disulfide	ND	250	6.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	100	11	ug/kg	
108-90-7	Chlorobenzene	ND	100	7.9	ug/kg	
75-00-3	Chloroethane	ND	250	38	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/kg	
67-66-3	Chloroform	ND	100	8.5	ug/kg	
74-87-3	Chloromethane	ND	250	28	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	9.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	13	ug/kg	
124-48-1	Dibromochloromethane	ND	100	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	100	11	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	100	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	100	17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	100	40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	100	13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	100	16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	100	21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	100	23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	100	21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	100	21	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	16	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	28	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	13	ug/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-MB	K84396.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	100	11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	100	13	ug/kg	
123-91-1	1,4-Dioxane	ND	1300	1000	ug/kg	
97-63-2	Ethyl methacrylate	ND	250	18	ug/kg	
100-41-4	Ethylbenzene	ND	100	34	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	29	ug/kg	
591-78-6	2-Hexanone	ND	500	38	ug/kg	
98-82-8	Isopropylbenzene	ND	250	8.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	8.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	9.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	27	ug/kg	
74-95-3	Methylene bromide	ND	250	23	ug/kg	
75-09-2	Methylene chloride	ND	100	27	ug/kg	
91-20-3	Naphthalene	ND	250	20	ug/kg	
103-65-1	n-Propylbenzene	ND	250	7.6	ug/kg	
100-42-5	Styrene	ND	250	8.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/kg	
127-18-4	Tetrachloroethene	ND	100	16	ug/kg	
108-88-3	Toluene	ND	250	10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	26	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	100	11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	100	29	ug/kg	
79-01-6	Trichloroethene	ND	100	12	ug/kg	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	14	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	76	ug/kg	
108-05-4	Vinyl Acetate	ND	250	77	ug/kg	
75-01-4	Vinyl chloride	ND	100	45	ug/kg	
	m,p-Xylene	ND	100	22	ug/kg	
95-47-6	o-Xylene	ND	100	14	ug/kg	
1330-20-7	Xylene (total)	ND	100	11	ug/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-MB	K84396.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

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

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-MB	M70707.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/kg	
107-02-8	Acrolein	ND	25	8.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	2.7	ug/kg	
71-43-2	Benzene	ND	0.50	0.34	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.21	ug/kg	
75-25-2	Bromoform	ND	2.0	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.24	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.75	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.76	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/kg	
67-66-3	Chloroform	ND	2.0	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.56	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.19	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.27	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.81	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.33	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.56	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.26	ug/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-MB	M70707.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.26	ug/kg	
123-91-1	1,4-Dioxane	ND	25	20	ug/kg	
97-63-2	Ethyl methacrylate	ND	5.0	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.69	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.57	ug/kg	
591-78-6	2-Hexanone	ND	10	0.76	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.54	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.40	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.15	ug/kg	
100-42-5	Styrene	ND	5.0	0.17	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.31	ug/kg	
108-88-3	Toluene	ND	5.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.57	ug/kg	
79-01-6	Trichloroethene	ND	2.0	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.29	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.91	ug/kg	
	m,p-Xylene	ND	2.0	0.44	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.22	ug/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-MB	M70707.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	98%	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/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB	U24821.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB	U24821.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	0.50	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB	U24821.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
120-82-1	Benzene, 1,2,4-trichloro-	17.89	6.4	ug/l	JN
91-57-6	Naphthalene, 2-methyl-	19.75	8	ug/l	JN
	Total TIC, Volatile		14.4	ug/l	J

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB1	U24858.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB1	U24858.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-MB1	U24858.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

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

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-BS	M70704.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	68.0	136* [a]	70-130
107-02-8	Acrolein	250	117	47* [a]	70-130
107-13-1	Acrylonitrile	50	47.7	95	70-130
71-43-2	Benzene	50	49.3	99	70-130
108-86-1	Bromobenzene	50	55.0	110	70-130
74-97-5	Bromochloromethane	50	52.3	105	70-130
75-27-4	Bromodichloromethane	50	51.6	103	70-130
75-25-2	Bromoform	50	65.3	131* [a]	70-130
74-83-9	Bromomethane	50	40.5	81	70-130
78-93-3	2-Butanone (MEK)	50	37.5	75	70-130
104-51-8	n-Butylbenzene	50	52.0	104	70-130
135-98-8	sec-Butylbenzene	50	52.6	105	70-130
98-06-6	tert-Butylbenzene	50	48.9	98	70-130
75-15-0	Carbon disulfide	50	46.5	93	70-130
56-23-5	Carbon tetrachloride	50	48.6	97	70-130
108-90-7	Chlorobenzene	50	58.1	116	70-130
75-00-3	Chloroethane	50	47.6	95	70-130
110-75-8	2-Chloroethyl vinyl ether	50	60.2	120	10-160
67-66-3	Chloroform	50	48.7	97	70-130
74-87-3	Chloromethane	50	39.1	78	70-130
95-49-8	o-Chlorotoluene	50	50.8	102	70-130
106-43-4	p-Chlorotoluene	50	49.9	100	70-130
124-48-1	Dibromochloromethane	50	60.1	120	70-130
95-50-1	1,2-Dichlorobenzene	50	56.4	113	70-130
541-73-1	1,3-Dichlorobenzene	50	54.7	109	70-130
106-46-7	1,4-Dichlorobenzene	50	53.8	108	70-130
75-71-8	Dichlorodifluoromethane	50	34.5	69* [a]	70-130
75-34-3	1,1-Dichloroethane	50	50.3	101	70-130
107-06-2	1,2-Dichloroethane	50	46.5	93	70-130
75-35-4	1,1-Dichloroethene	50	51.4	103	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.5	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	52.9	106	70-130
78-87-5	1,2-Dichloropropane	50	54.1	108	70-130
142-28-9	1,3-Dichloropropane	50	54.1	108	70-130
594-20-7	2,2-Dichloropropane	50	43.8	88	70-130
563-58-6	1,1-Dichloropropene	50	50.9	102	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-BS	M70704.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	51.8	104	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.3	105	70-130
123-91-1	1,4-Dioxane	250	284	114	70-130
97-63-2	Ethyl methacrylate	50	44.5	89	76-141
100-41-4	Ethylbenzene	50	54.1	108	70-130
87-68-3	Hexachlorobutadiene	50	58.7	117	70-130
591-78-6	2-Hexanone	50	38.9	78	70-130
98-82-8	Isopropylbenzene	50	51.2	102	70-130
99-87-6	p-Isopropyltoluene	50	52.3	105	70-130
1634-04-4	Methyl Tert Butyl Ether	50	46.0	92	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	46.5	93	70-130
74-95-3	Methylene bromide	50	52.8	106	70-130
75-09-2	Methylene chloride	50	49.5	99	70-130
91-20-3	Naphthalene	50	62.3	125	70-130
103-65-1	n-Propylbenzene	50	51.7	103	70-130
100-42-5	Styrene	50	58.2	116	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	60.0	120	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	52.3	105	70-130
127-18-4	Tetrachloroethene	50	57.8	116	70-130
108-88-3	Toluene	50	52.6	105	70-130
87-61-6	1,2,3-Trichlorobenzene	50	58.9	118	70-130
120-82-1	1,2,4-Trichlorobenzene	50	58.3	117	70-130
71-55-6	1,1,1-Trichloroethane	50	47.6	95	70-130
79-00-5	1,1,2-Trichloroethane	50	51.8	104	70-130
79-01-6	Trichloroethene	50	54.7	109	70-130
75-69-4	Trichlorofluoromethane	50	39.8	80	70-130
96-18-4	1,2,3-Trichloropropane	50	49.8	100	70-130
95-63-6	1,2,4-Trimethylbenzene	50	51.1	102	70-130
108-67-8	1,3,5-Trimethylbenzene	50	49.3	99	70-130
108-05-4	Vinyl Acetate	50	22.7	45* [a]	70-130
75-01-4	Vinyl chloride	50	39.5	79	70-130
	m,p-Xylene	100	113	113	70-130
95-47-6	o-Xylene	50	57.2	114	70-130
1330-20-7	Xylene (total)	150	170	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2514-BS	M70704.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	90%	70-130%

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-BS1	U24855.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	38.3	77	70-130
107-02-8	Acrolein	250	176	70	70-130
107-13-1	Acrylonitrile	50	37.7	75	70-130
71-43-2	Benzene	50	45.6	91	70-130
108-86-1	Bromobenzene	50	53.6	107	70-130
74-97-5	Bromochloromethane	50	41.3	83	70-130
75-27-4	Bromodichloromethane	50	48.3	97	70-130
75-25-2	Bromoform	50	45.4	91	70-130
74-83-9	Bromomethane	50	34.2	68* [a]	70-130
78-93-3	2-Butanone (MEK)	50	35.7	71	70-130
104-51-8	n-Butylbenzene	50	51.7	103	70-130
135-98-8	sec-Butylbenzene	50	54.7	109	70-130
98-06-6	tert-Butylbenzene	50	54.6	109	70-130
75-15-0	Carbon disulfide	50	41.5	83	70-130
56-23-5	Carbon tetrachloride	50	43.6	87	70-130
108-90-7	Chlorobenzene	50	47.0	94	70-130
75-00-3	Chloroethane	50	42.7	85	70-130
110-75-8	2-Chloroethyl vinyl ether	50	46.4	93	70-130
67-66-3	Chloroform	50	41.8	84	70-130
74-87-3	Chloromethane	50	36.4	73	70-130
95-49-8	o-Chlorotoluene	50	53.0	106	70-130
106-43-4	p-Chlorotoluene	50	52.5	105	70-130
124-48-1	Dibromochloromethane	50	48.7	97	70-130
95-50-1	1,2-Dichlorobenzene	50	49.3	99	70-130
541-73-1	1,3-Dichlorobenzene	50	50.0	100	70-130
106-46-7	1,4-Dichlorobenzene	50	47.2	94	70-130
75-71-8	Dichlorodifluoromethane	50	36.5	73	70-130
75-34-3	1,1-Dichloroethane	50	44.7	89	70-130
107-06-2	1,2-Dichloroethane	50	44.9	90	70-130
75-35-4	1,1-Dichloroethene	50	44.2	88	70-130
156-59-2	cis-1,2-Dichloroethene	50	42.3	85	70-130
156-60-5	trans-1,2-Dichloroethene	50	44.5	89	70-130
78-87-5	1,2-Dichloropropane	50	48.5	97	70-130
142-28-9	1,3-Dichloropropane	50	49.7	99	70-130
594-20-7	2,2-Dichloropropane	50	40.3	81	70-130
563-58-6	1,1-Dichloropropene	50	52.8	106	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-BS1	U24855.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	53.4	107	70-130
10061-02-6	trans-1,3-Dichloropropene	50	54.5	109	70-130
123-91-1	1,4-Dioxane	250	533	213* [a]	70-130
97-63-2	Ethyl methacrylate	50	46.8	94	77-137
100-41-4	Ethylbenzene	50	46.0	92	70-130
87-68-3	Hexachlorobutadiene	50	51.6	103	70-130
591-78-6	2-Hexanone	50	43.2	86	70-130
98-82-8	Isopropylbenzene	50	55.8	112	70-130
99-87-6	p-Isopropyltoluene	50	53.4	107	70-130
1634-04-4	Methyl Tert Butyl Ether	50	39.9	80	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	41.5	83	70-130
74-95-3	Methylene bromide	50	44.3	89	70-130
75-09-2	Methylene chloride	50	39.9	80	70-130
91-20-3	Naphthalene	50	56.6	113	70-130
103-65-1	n-Propylbenzene	50	55.8	112	70-130
100-42-5	Styrene	50	47.0	94	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	44.2	88	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.7	103	70-130
127-18-4	Tetrachloroethene	50	49.0	98	70-130
108-88-3	Toluene	50	46.7	93	70-130
87-61-6	1,2,3-Trichlorobenzene	50	52.9	106	70-130
120-82-1	1,2,4-Trichlorobenzene	50	51.2	102	70-130
71-55-6	1,1,1-Trichloroethane	50	40.5	81	70-130
79-00-5	1,1,2-Trichloroethane	50	49.1	98	70-130
79-01-6	Trichloroethene	50	47.7	95	70-130
75-69-4	Trichlorofluoromethane	50	36.0	72	70-130
96-18-4	1,2,3-Trichloropropane	50	55.6	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.4	107	70-130
108-67-8	1,3,5-Trimethylbenzene	50	53.1	106	70-130
108-05-4	Vinyl Acetate	50	30.6	61* [a]	70-130
75-01-4	Vinyl chloride	50	34.6	69* [a]	70-130
	m,p-Xylene	100	91.5	92	70-130
95-47-6	o-Xylene	50	42.9	86	70-130
1330-20-7	Xylene (total)	150	134	89	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1058-BS1	U24855.D	1	12/21/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	85%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	111%	70-130%

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-BS	K84393.D	1	12/11/14	JM	n/a	n/a	MSK2649
MSK2649-BSD	K84394.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2500	2030	81	2430	97	18	70-130/20
107-02-8	Acrolein	12500	9770	78	9840	79	1	70-130/20
107-13-1	Acrylonitrile	2500	2470	99	2310	92	7	70-130/20
71-43-2	Benzene	2500	2540	102	2430	97	4	70-130/20
108-86-1	Bromobenzene	2500	2830	113	2700	108	5	70-130/20
74-97-5	Bromochloromethane	2500	2630	105	2480	99	6	70-130/20
75-27-4	Bromodichloromethane	2500	3010	120	2890	116	4	70-130/20
75-25-2	Bromoform	2500	3100	124	3040	122	2	70-130/20
74-83-9	Bromomethane	2500	2360	94	2400	96	2	70-130/20
78-93-3	2-Butanone (MEK)	2500	2390	96	2720	109	13	70-130/20
104-51-8	n-Butylbenzene	2500	2800	112	2710	108	3	70-130/20
135-98-8	sec-Butylbenzene	2500	2730	109	2620	105	4	70-130/20
98-06-6	tert-Butylbenzene	2500	2870	115	2720	109	5	70-130/20
75-15-0	Carbon disulfide	2500	2620	105	2530	101	3	70-130/20
56-23-5	Carbon tetrachloride	2500	2810	112	2680	107	5	70-130/20
108-90-7	Chlorobenzene	2500	2790	112	2730	109	2	70-130/20
75-00-3	Chloroethane	2500	2660	106	2560	102	4	70-130/20
110-75-8	2-Chloroethyl vinyl ether	2500	2590	104	2610	104	1	10-160/20
67-66-3	Chloroform	2500	2570	103	2460	98	4	70-130/20
74-87-3	Chloromethane	2500	2460	98	2470	99	0	70-130/20
95-49-8	o-Chlorotoluene	2500	2770	111	2650	106	4	70-130/20
106-43-4	p-Chlorotoluene	2500	2720	109	2620	105	4	70-130/20
124-48-1	Dibromochloromethane	2500	3030	121	2930	117	3	70-130/20
95-50-1	1,2-Dichlorobenzene	2500	2710	108	2650	106	2	70-130/20
541-73-1	1,3-Dichlorobenzene	2500	2750	110	2640	106	4	70-130/20
106-46-7	1,4-Dichlorobenzene	2500	2590	104	2470	99	5	70-130/20
75-71-8	Dichlorodifluoromethane	2500	2490	100	2590	104	4	70-130/20
75-34-3	1,1-Dichloroethane	2500	2610	104	2470	99	6	70-130/20
107-06-2	1,2-Dichloroethane	2500	2770	111	2670	107	4	70-130/20
75-35-4	1,1-Dichloroethene	2500	2620	105	2430	97	8	70-130/20
156-59-2	cis-1,2-Dichloroethene	2500	2420	97	2320	93	4	70-130/20
156-60-5	trans-1,2-Dichloroethene	2500	2510	100	2400	96	4	70-130/20
78-87-5	1,2-Dichloropropane	2500	2610	104	2530	101	3	70-130/20
142-28-9	1,3-Dichloropropane	2500	2660	106	2590	104	3	70-130/20
594-20-7	2,2-Dichloropropane	2500	2750	110	2630	105	4	70-130/20
563-58-6	1,1-Dichloropropene	2500	2930	117	2730	109	7	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-BS	K84393.D	1	12/11/14	JM	n/a	n/a	MSK2649
MSK2649-BSD	K84394.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	2500	2900	116	2790	112	4	70-130/20
10061-02-6	trans-1,3-Dichloropropene	2500	3040	122	2900	116	5	70-130/20
123-91-1	1,4-Dioxane	12500	15500	124	15200	122	2	70-130/20
97-63-2	Ethyl methacrylate	2500	2700	108	2620	105	3	76-141/20
100-41-4	Ethylbenzene	2500	2760	110	2690	108	3	70-130/20
87-68-3	Hexachlorobutadiene	2500	2770	111	2630	105	5	70-130/20
591-78-6	2-Hexanone	2500	2540	102	2580	103	2	70-130/20
98-82-8	Isopropylbenzene	2500	2840	114	2710	108	5	70-130/20
99-87-6	p-Isopropyltoluene	2500	2750	110	2670	107	3	70-130/20
1634-04-4	Methyl Tert Butyl Ether	2500	2300	92	2350	94	2	70-130/20
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2510	100	2490	100	1	70-130/20
74-95-3	Methylene bromide	2500	2760	110	2680	107	3	70-130/20
75-09-2	Methylene chloride	2500	2480	99	2350	94	5	70-130/20
91-20-3	Naphthalene	2500	2510	100	2540	102	1	70-130/20
103-65-1	n-Propylbenzene	2500	2870	115	2740	110	5	70-130/20
100-42-5	Styrene	2500	3020	121	2950	118	2	70-130/20
630-20-6	1,1,1,2-Tetrachloroethane	2500	3000	120	2970	119	1	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	2500	2520	101	2430	97	4	70-130/20
127-18-4	Tetrachloroethene	2500	2920	117	2860	114	2	70-130/20
108-88-3	Toluene	2500	2670	107	2580	103	3	70-130/20
87-61-6	1,2,3-Trichlorobenzene	2500	2290	92	2320	93	1	70-130/20
120-82-1	1,2,4-Trichlorobenzene	2500	2590	104	2560	102	1	70-130/20
71-55-6	1,1,1-Trichloroethane	2500	2640	106	2570	103	3	70-130/20
79-00-5	1,1,2-Trichloroethane	2500	2660	106	2610	104	2	70-130/20
79-01-6	Trichloroethene	2500	2830	113	2730	109	4	70-130/20
75-69-4	Trichlorofluoromethane	2500	2410	96	2450	98	2	70-130/20
96-18-4	1,2,3-Trichloropropane	2500	2690	108	2600	104	3	70-130/20
95-63-6	1,2,4-Trimethylbenzene	2500	2820	113	2700	108	4	70-130/20
108-67-8	1,3,5-Trimethylbenzene	2500	2800	112	2700	108	4	70-130/20
108-05-4	Vinyl Acetate	2500	1270	51* [a]	1190	48* [a]	7	70-130/20
75-01-4	Vinyl chloride	2500	2460	98	2230	89	10	70-130/20
	m,p-Xylene	5000	5620	112	5450	109	3	70-130/20
95-47-6	o-Xylene	2500	2750	110	2720	109	1	70-130/20
1330-20-7	Xylene (total)	7500	8370	112	8170	109	2	70-130/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2649-BS	K84393.D	1	12/11/14	JM	n/a	n/a	MSK2649
MSK2649-BSD	K84394.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	100%	70-130%
2037-26-5	Toluene-D8	113%	103%	70-130%
460-00-4	4-Bromofluorobenzene	111%	101%	70-130%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35638-1MS	K84407.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1MSD	K84408.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1	K84403.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	MC35638-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		9380	6140	65* a	9380	5520	59* a	11	70-130/30
107-02-8	Acrolein	ND		46900	26200	56* a	46900	25300	54* a	3	70-130/30
107-13-1	Acrylonitrile	ND		9380	8810	94	9380	8450	90	4	70-130/30
71-43-2	Benzene	801		9380	9870	97	9380	9570	93	3	70-130/30
108-86-1	Bromobenzene	ND		9380	9920	106	9380	9700	103	2	70-130/30
74-97-5	Bromochloromethane	ND		9380	9590	102	9380	9180	98	4	70-130/30
75-27-4	Bromodichloromethane	ND		9380	11600	124	9380	11000	117	5	70-130/30
75-25-2	Bromoform	ND		9380	11100	118	9380	11100	118	0	70-130/30
74-83-9	Bromomethane	ND		9380	10000	107	9380	9400	100	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		9380	8270	88	9380	8300	88	0	70-130/30
104-51-8	n-Butylbenzene	ND		9380	10200	109	9380	10000	107	2	70-130/30
135-98-8	sec-Butylbenzene	ND		9380	10100	108	9380	9710	103	4	70-130/30
98-06-6	tert-Butylbenzene	ND		9380	11000	117	9380	10300	110	7	70-130/30
75-15-0	Carbon disulfide	144	J	9380	9780	103	9380	9510	100	3	70-130/30
56-23-5	Carbon tetrachloride	ND		9380	11400	122	9380	10900	116	4	70-130/30
108-90-7	Chlorobenzene	ND		9380	9750	104	9380	9750	104	0	70-130/30
75-00-3	Chloroethane	ND		9380	10500	112	9380	10500	112	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		9380	8870	95	9380	9040	96	2	10-160/30
67-66-3	Chloroform	ND		9380	10000	107	9380	9450	101	6	70-130/30
74-87-3	Chloromethane	ND		9380	9430	101	9380	10000	107	6	70-130/30
95-49-8	o-Chlorotoluene	ND		9380	10100	108	9380	9890	105	2	70-130/30
106-43-4	p-Chlorotoluene	ND		9380	9860	105	9380	9750	104	1	70-130/30
124-48-1	Dibromochloromethane	ND		9380	10900	116	9380	10700	114	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		9380	9660	103	9380	9580	102	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		9380	9770	104	9380	9340	100	5	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		9380	9180	98	9380	9300	99	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		9380	11600	124	9380	11400	122	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		9380	9620	103	9380	9270	99	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		9380	10900	116	9380	10100	108	8	70-130/30
75-35-4	1,1-Dichloroethene	ND		9380	9480	101	9380	9130	97	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		9380	8900	95	9380	8540	91	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		9380	8880	95	9380	8750	93	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		9380	9460	101	9380	9320	99	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		9380	9320	99	9380	9380	100	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		9380	11200	119	9380	10700	114	5	70-130/30
563-58-6	1,1-Dichloropropene	ND		9380	10800	115	9380	10300	110	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35638-1MS	K84407.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1MSD	K84408.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1	K84403.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Compound	MC35638-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		9380	10700	114	9380	10300	110	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		9380	11400	122	9380	10800	115	5	70-130/30
123-91-1	1,4-Dioxane	ND		46900	65800	140* [a]	46900	57300	122	14	70-130/30
97-63-2	Ethyl methacrylate	ND		9380	9480	101	9380	9640	103	2	41-160/30
100-41-4	Ethylbenzene	629		9380	10300	103	9380	10600	106	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		9380	10400	111	9380	9790	104	6	70-130/30
591-78-6	2-Hexanone	ND		9380	7990	85	9380	7810	83	2	70-130/30
98-82-8	Isopropylbenzene	168	J	9380	10500	110	9380	10200	107	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		9380	10300	110	9380	10000	107	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		9380	9170	98	9380	8480	90	8	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		9380	9250	99	9380	8890	95	4	70-130/30
74-95-3	Methylene bromide	ND		9380	10500	112	9380	9970	106	5	70-130/30
75-09-2	Methylene chloride	ND		9380	8860	94	9380	8560	91	3	70-130/30
91-20-3	Naphthalene	2250		9380	12200	106	9380	11600	100	5	70-130/30
103-65-1	n-Propylbenzene	ND		9380	10300	110	9380	10100	108	2	70-130/30
100-42-5	Styrene	ND		9380	10200	109	9380	10600	113	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		9380	11200	119	9380	11000	117	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		9380	8870	95	9380	8490	90	4	70-130/30
127-18-4	Tetrachloroethene	ND		9380	10200	109	9380	10200	109	0	70-130/30
108-88-3	Toluene	ND		9380	9720	104	9380	9580	102	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		9380	8100	86	9380	8000	85	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		9380	9120	97	9380	8930	95	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		9380	10900	116	9380	10300	110	6	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		9380	9690	103	9380	9260	99	5	70-130/30
79-01-6	Trichloroethene	ND		9380	10800	115	9380	10500	112	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		9380	9990	106	9380	9610	102	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		9380	9470	101	9380	9220	98	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		9380	10500	112	9380	10400	111	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		9380	10400	111	9380	10100	108	3	70-130/30
108-05-4	Vinyl Acetate	ND		9380	4410	47* [a]	9380	4220	45* [a]	4	70-130/30
75-01-4	Vinyl chloride	ND		9380	9870	105	9380	10700	114	8	70-130/30
	m,p-Xylene	144	J	18800	19800	105	18800	20400	108	3	70-130/30
95-47-6	o-Xylene	155	J	9380	10000	105	9380	10200	107	2	70-130/30
1330-20-7	Xylene (total)	299	J	28100	29800	105	28100	30600	108	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35638-1MS	K84407.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1MSD	K84408.D	1	12/11/14	JM	n/a	n/a	MSK2649
MC35638-1	K84403.D	1	12/11/14	JM	n/a	n/a	MSK2649

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

MC35641-2

CAS No.	Surrogate Recoveries	MS	MSD	MC35638-1	Limits
1868-53-7	Dibromofluoromethane	109%	104%	117%	70-130%
2037-26-5	Toluene-D8	106%	104%	103%	70-130%
460-00-4	4-Bromofluorobenzene	103%	101%	107%	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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35641-1MS	M70718.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1MSD	M70719.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1	M70709.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	MC35641-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		84.8	47.7	56* a	77.3	84.2	109	55* b	70-130/30
107-02-8	Acrolein	ND		424	127	30* a	386	78.2	20* a	48* b	70-130/30
107-13-1	Acrylonitrile	ND		84.8	75.0	88	77.3	73.0	94	3	70-130/30
71-43-2	Benzene	16.3		84.8	67.4	60* a	77.3	65.4	64* a	3	70-130/30
108-86-1	Bromobenzene	ND		84.8	51.8	61* a	77.3	82.8	107	46* b	70-130/30
74-97-5	Bromochloromethane	ND		84.8	73.0	86	77.3	73.1	95	0	70-130/30
75-27-4	Bromodichloromethane	ND		84.8	72.0	85	77.3	81.7	106	13	70-130/30
75-25-2	Bromoform	ND		84.8	62.6	74	77.3	67.8	88	8	70-130/30
74-83-9	Bromomethane	ND		84.8	43.7	52* a	77.3	43.3	56* a	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		84.8	60.6	71	77.3	228	295* a	116* b	70-130/30
104-51-8	n-Butylbenzene	10.3		84.8	344	394* a	77.3	890	1138* a	88* b	70-130/30
135-98-8	sec-Butylbenzene	4.7	J	84.8	131	149* a	77.3	400	512* a	101* b	70-130/30
98-06-6	tert-Butylbenzene	ND		84.8	30.1	35* a	77.3	48.0	62* a	46* b	70-130/30
75-15-0	Carbon disulfide	ND		84.8	65.0	77	77.3	63.7	82	2	70-130/30
56-23-5	Carbon tetrachloride	ND		84.8	61.0	72	77.3	56.4	73	8	70-130/30
108-90-7	Chlorobenzene	ND		84.8	60.9	72	77.3	106	137* a	54* b	70-130/30
75-00-3	Chloroethane	ND		84.8	54.5	64* a	77.3	54.6	71	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		84.8	38.2	45	77.3	498	644* a	172* b	10-160/30
67-66-3	Chloroform	ND		84.8	64.9	77	77.3	66.5	86	2	70-130/30
74-87-3	Chloromethane	ND		84.8	41.6	49* a	77.3	38.4	50* a	8	70-130/30
95-49-8	o-Chlorotoluene	ND		84.8	404	476* a	77.3	1200	1553* a	99* b	70-130/30
106-43-4	p-Chlorotoluene	ND		84.8	403	475* a	77.3	1200	1553* a	99* b	70-130/30
124-48-1	Dibromochloromethane	ND		84.8	55.2	65* a	77.3	63.2	82	14	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		84.8	36.6	43* a	77.3	45.0	58* a	21	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		84.8	36.0	42* a	77.3	45.1	58* a	22	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		84.8	34.3	40* a	77.3	42.2	55* a	21	70-130/30
75-71-8	Dichlorodifluoromethane	ND		84.8	33.7	40* a	77.3	32.9	43* a	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		84.8	67.5	80	77.3	71.3	92	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		84.8	65.4	77	77.3	62.8	81	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		84.8	73.3	86	77.3	78.4	101	7	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		84.8	71.5	84	77.3	73.7	95	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		84.8	72.4	85	77.3	73.9	96	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		84.8	73.2	86	77.3	86.2	112	16	70-130/30
142-28-9	1,3-Dichloropropane	ND		84.8	51.9	61* a	77.3	62.2	80	18	70-130/30
594-20-7	2,2-Dichloropropane	ND		84.8	52.9	62* a	77.3	40.8	53* a	26	70-130/30
563-58-6	1,1-Dichloropropene	ND		84.8	67.5	80	77.3	69.0	89	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35641-1MS	M70718.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1MSD	M70719.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1	M70709.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Compound	MC35641-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		84.8	72.3	85	77.3	70.9	92	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		84.8	75.0	88	77.3	72.4	94	4	70-130/30
123-91-1	1,4-Dioxane	ND		424	420	99	386	481	124	14	70-130/30
97-63-2	Ethyl methacrylate	ND		84.8	158	186* a	77.3	677	876* a	124* b	41-160/30
100-41-4	Ethylbenzene	69.3		84.8	536	550* a	77.3	1520	1877* a	96* b	70-130/30
87-68-3	Hexachlorobutadiene	ND		84.8	4.7	6* a	77.3	3.7	5* a	24	70-130/30
591-78-6	2-Hexanone	ND		84.8	4400	5189* a	77.3	978	1266* a	127* b	70-130/30
98-82-8	Isopropylbenzene	11.3		84.8	209	233* a	77.3	771	983* a	115* b	70-130/30
99-87-6	p-Isopropyltoluene	5.3	J	84.8	167	191* a	77.3	469	600* a	95* b	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		84.8	59.7	70	77.3	58.5	76	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		84.8	168	198* a	77.3	787	1018* a	130* b	70-130/30
74-95-3	Methylene bromide	ND		84.8	77.0	91	77.3	78.1	101	1	70-130/30
75-09-2	Methylene chloride	ND		84.8	65.3	77	77.3	64.0	83	2	70-130/30
91-20-3	Naphthalene	50.8		84.8	693	757* a	77.3	1040	1280* a	40* b	70-130/30
103-65-1	n-Propylbenzene	15.4		84.8	269	299* a	77.3	1150	1468* a	124* b	70-130/30
100-42-5	Styrene	ND		84.8	46.9	55* a	77.3	53.0	69* a	12	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		84.8	46.6	55* a	77.3	45.9	59* a	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		84.8	167	197* a	77.3	442	572* a	90* b	70-130/30
127-18-4	Tetrachloroethene	ND		84.8	40.2	47* a	77.3	41.6	54* a	3	70-130/30
108-88-3	Toluene	23.5		84.8	95.3	85	77.3	127	134* a	29	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		84.8	7.3	9* a	77.3	6.3	8* a	15	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		84.8	11.3	13* a	77.3	10.5	14* a	7	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		84.8	61.4	72	77.3	57.5	74	7	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		84.8	130	153* a	77.3	474	613* a	114* b	70-130/30
79-01-6	Trichloroethene	ND		84.8	73.1	86	77.3	91.5	118	22	70-130/30
75-69-4	Trichlorofluoromethane	ND		84.8	41.6	49* a	77.3	42.8	55* a	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		84.8	69.8	82	77.3	118	153* a	51* b	70-130/30
95-63-6	1,2,4-Trimethylbenzene	101		84.8	2500	2829* a	77.3	5080	6443* a	68* b	70-130/30
108-67-8	1,3,5-Trimethylbenzene	31.9		84.8	922	1050* a	77.3	2760	3530* a	100* b	70-130/30
108-05-4	Vinyl Acetate	ND		84.8	38.4	45* a	77.3	598	774* a	176* b	70-130/30
75-01-4	Vinyl chloride	ND		84.8	43.9	52* a	77.3	42.5	55* a	3	70-130/30
	m,p-Xylene	94.9		170	2100	1182* a	155	4560	2889* a	74* b	70-130/30
95-47-6	o-Xylene	29.3		84.8	850	968* a	77.3	1850	2356* a	74* b	70-130/30
1330-20-7	Xylene (total)	124		254	2960	1115* a	232	6410	2711* a	74* b	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35641-1MS	M70718.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1MSD	M70719.D	1	12/18/14	AMY	n/a	n/a	MSM2514
MC35641-1	M70709.D	1	12/18/14	AMY	n/a	n/a	MSM2514

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

MC35641-1, MC35641-3

CAS No.	Surrogate Recoveries	MS	MSD	MC35641-1	Limits
1868-53-7	Dibromofluoromethane	99%	103%	102%	70-130%
2037-26-5	Toluene-D8	103%	101%	98%	70-130%
460-00-4	4-Bromofluorobenzene	131%* c	1378%* c	86%	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.
(c) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35963-6MS	U24840.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6MSD	U24841.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6 [a]	U24832.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	MC35963-6 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	1630	652* [b]	250	450	180* [b]	113* [c]	70-130/30
107-02-8	Acrolein	25 U		1250	1070	86	1250	1070	86	0	70-130/30
107-13-1	Acrylonitrile	5.0 U		250	297	119	250	228	91	26	70-130/30
71-43-2	Benzene	0.86		250	246	98	250	233	93	5	70-130/30
108-86-1	Bromobenzene	5.0 U		250	257	103	250	252	101	2	70-130/30
74-97-5	Bromochloromethane	5.0 U		250	271	108	250	227	91	18	70-130/30
75-27-4	Bromodichloromethane	1.0 U		250	272	109	250	253	101	7	70-130/30
75-25-2	Bromoform	1.0 U		250	275	110	250	260	104	6	70-130/30
74-83-9	Bromomethane	2.0 U		250	195	78	250	155	62* [b]	23	70-130/30
78-93-3	2-Butanone (MEK)	5.0 U		250	371	148* [b]	250	217	87	52* [c]	70-130/30
104-51-8	n-Butylbenzene	23.7		250	274	100	250	271	99	1	70-130/30
135-98-8	sec-Butylbenzene	15.4		250	290	110	250	283	107	2	70-130/30
98-06-6	tert-Butylbenzene	1.9	J	250	280	111	250	278	110	1	70-130/30
75-15-0	Carbon disulfide	5.0 U		250	261	104	250	231	92	12	70-130/30
56-23-5	Carbon tetrachloride	1.0 U		250	245	98	250	219	88	11	70-130/30
108-90-7	Chlorobenzene	1.0 U		250	241	96	250	237	95	2	70-130/30
75-00-3	Chloroethane	2.0 U		250	236	94	250	191	76	21	70-130/30
110-75-8	2-Chloroethyl vinyl ether	5.0 U		250	290	116	250	263	105	10	70-130/30
67-66-3	Chloroform	1.0 U		250	262	105	250	224	90	16	70-130/30
74-87-3	Chloromethane	2.0 U		250	180	72	250	145	58* [b]	22	70-130/30
95-49-8	o-Chlorotoluene	5.0 U		250	259	104	250	254	102	2	70-130/30
106-43-4	p-Chlorotoluene	5.0 U		250	253	101	250	248	99	2	70-130/30
124-48-1	Dibromochloromethane	1.0 U		250	250	100	250	253	101	1	70-130/30
95-50-1	1,2-Dichlorobenzene	1.0 U		250	251	100	250	246	98	2	70-130/30
541-73-1	1,3-Dichlorobenzene	1.0 U		250	251	100	250	247	99	2	70-130/30
106-46-7	1,4-Dichlorobenzene	1.0 U		250	233	93	250	228	91	2	70-130/30
75-71-8	Dichlorodifluoromethane	2.0 U		250	154	62* [b]	250	119	48* [b]	26	70-130/30
75-34-3	1,1-Dichloroethane	1.0 U		250	274	110	250	240	96	13	70-130/30
107-06-2	1,2-Dichloroethane	1.0 U		250	267	107	250	245	98	9	70-130/30
75-35-4	1,1-Dichloroethene	1.0 U		250	284	114	250	244	98	15	70-130/30
156-59-2	cis-1,2-Dichloroethene	1.0 U		250	276	110	250	232	93	17	70-130/30
156-60-5	trans-1,2-Dichloroethene	1.0 U		250	291	116	250	243	97	18	70-130/30
78-87-5	1,2-Dichloropropane	2.0 U		250	270	108	250	247	99	9	70-130/30
142-28-9	1,3-Dichloropropane	5.0 U		250	263	105	250	267	107	2	70-130/30
594-20-7	2,2-Dichloropropane	5.0 U		250	255	102	250	200	80	24	70-130/30
563-58-6	1,1-Dichloropropene	5.0 U		250	283	113	250	270	108	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35963-6MS	U24840.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6MSD	U24841.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6 [a]	U24832.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Compound	MC35963-6 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	299	120	250	274	110	9	70-130/30
10061-02-6	trans-1,3-Dichloropropene	0.50 U		250	317	127	250	290	116	9	70-130/30
123-91-1	1,4-Dioxane	25 U		1250	3570	286* [b]	1250	3290	263* [b]	8	70-130/30
97-63-2	Ethyl methacrylate	5.0 U		250	387	155* [b]	250	317	127	20	72-139/30
100-41-4	Ethylbenzene	31.2		250	271	96	250	257	90	5	70-130/30
87-68-3	Hexachlorobutadiene	5.0 U		250	223	89	250	245	98	9	70-130/30
591-78-6	2-Hexanone	5.0 U		250	412	165* [b]	250	347	139* [b]	17	70-130/30
98-82-8	Isopropylbenzene	24.1		250	287	105	250	284	104	1	70-130/30
99-87-6	p-Isopropyltoluene	13.4		250	290	111	250	283	108	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	1.0 U		250	265	106	250	221	88	18	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		250	353	141* [b]	250	277	111	24	70-130/30
74-95-3	Methylene bromide	5.0 U		250	270	108	250	245	98	10	70-130/30
75-09-2	Methylene chloride	2.0 U		250	264	106	250	222	89	17	70-130/30
91-20-3	Naphthalene	213	E	250	467	102	250	507	118	8	70-130/30
103-65-1	n-Propylbenzene	36.0		250	307	108	250	297	104	3	70-130/30
100-42-5	Styrene	5.0 U		250	267	107	250	249	100	7	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		250	246	98	250	234	94	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U		250	301	120	250	292	117	3	70-130/30
127-18-4	Tetrachloroethene	1.0 U		250	231	92	250	232	93	0	70-130/30
108-88-3	Toluene	0.54	J	250	265	106	250	233	93	13	70-130/30
87-61-6	1,2,3-Trichlorobenzene	5.0 U		250	191	76	250	219	88	14	70-130/30
120-82-1	1,2,4-Trichlorobenzene	5.0 U		250	202	81	250	221	88	9	70-130/30
71-55-6	1,1,1-Trichloroethane	1.0 U		250	260	104	250	218	87	18	70-130/30
79-00-5	1,1,2-Trichloroethane	1.0 U		250	316	126	250	276	110	14	70-130/30
79-01-6	Trichloroethene	0.50 U		250	259	104	250	245	98	6	70-130/30
75-69-4	Trichlorofluoromethane	1.0 U		250	199	80	250	164	66* [b]	19	70-130/30
96-18-4	1,2,3-Trichloropropane	5.0 U		250	308	123	250	291	116	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	34.4		250	275	96	250	282	99	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	8.4		250	282	109	250	272	105	4	70-130/30
108-05-4	Vinyl Acetate	5.0 U		250	197	79	250	178	71	10	70-130/30
75-01-4	Vinyl chloride	1.0 U		250	181	72	250	142	57* [b]	24	70-130/30
	m,p-Xylene	7.6		500	501	99	500	470	92	6	70-130/30
95-47-6	o-Xylene	0.58	J	250	246	98	250	230	92	7	70-130/30
1330-20-7	Xylene (total)	8.1		750	747	99	750	700	92	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35963-6MS	U24840.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6MSD	U24841.D	5	12/21/14	AMY	n/a	n/a	MSU1058
MC35963-6 [a]	U24832.D	1	12/20/14	AMY	n/a	n/a	MSU1058

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

MC35641-5

CAS No.	Surrogate Recoveries	MS	MSD	MC35963-6	Limits
1868-53-7	Dibromofluoromethane	102%	91%	102%	70-130%
2037-26-5	Toluene-D8	104%	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	103%	106%	95%	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.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSK2649-CC2632	**Injection Date:**	12/11/14
Lab File ID:	K84392.D	**Injection Time:**	08:34
Instrument ID:	GCMSK	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	288451	8.78	388521	9.62	197185	12.88	216959	15.44	88229	6.42
Upper Limit [a]	576902	9.28	777042	10.12	394370	13.38	433918	15.94	176458	6.92
Lower Limit [b]	144226	8.28	194261	9.12	98593	12.38	108480	14.94	44115	5.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSK2649-BS	298227	8.78	396005	9.62	203250	12.88	215996	15.44	96294	6.42
MSK2649-BSD	287829	8.78	382238	9.62	193422	12.88	210956	15.44	95980	6.42
MSK2649-MB	263540	8.77	353477	9.62	158279	12.88	183981	15.44	84045	6.41
ZZZZZZ	274709	8.77	363007	9.62	174300	12.88	205921	15.44	85860	6.46
ZZZZZZ	258824	8.77	348163	9.62	154859	12.88	181110	15.44	84896	6.44
ZZZZZZ	235567	8.77	308649	9.62	149812	12.88	181725	15.43	78804	6.46
MC35638-1	228684	8.77	298986	9.62	146608	12.88	172377	15.44	75081	6.41
ZZZZZZ	218290	8.77	283402	9.62	139421	12.88	168804	15.44	72085	6.42
ZZZZZZ	221455	8.78	294576	9.62	138986	12.88	163833	15.43	72037	6.42
ZZZZZZ	219290	8.78	290012	9.62	137111	12.88	160933	15.44	79075	6.42
MC35638-1MS	224908	8.77	306209	9.62	163288	12.88	172506	15.44	85206	6.42
MC35638-1MSD	247703	8.77	333264	9.62	173702	12.88	190921	15.44	90031	6.42
ZZZZZZ	243834	8.77	321392	9.62	160864	12.88	196237	15.43	89708	6.42
ZZZZZZ	257305	8.78	341902	9.62	167754	12.88	210300	15.43	84438	6.42
ZZZZZZ	257372	8.77	338533	9.62	152660	12.88	182791	15.44	85158	6.41
MC35641-2	244560	8.78	313868	9.62	159859	12.88	195640	15.44	70413	6.40
ZZZZZZ	255459	8.77	351349	9.62	165170	12.88	240854	15.44	82479	6.42
ZZZZZZ	308342	8.78	411449	9.62	186701	12.88	242089	15.43	96849	6.42
ZZZZZZ	324526	8.78	441663	9.62	200665	12.88	238356	15.44	117581	6.42
ZZZZZZ	318391	8.78	430552	9.62	206244	12.88	243248	15.44	114783	6.42

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSM2514-CC2495	**Injection Date:**	12/18/14
Lab File ID:	M70703.D	**Injection Time:**	09:08
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	152502	9.34	242215	10.22	109386	13.50	136754	16.06	46954	6.84
Upper Limit [a]	305004	9.84	484430	10.72	218772	14.00	273508	16.56	93908	7.34
Lower Limit [b]	76251	8.84	121108	9.72	54693	13.00	68377	15.56	23477	6.34
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSM2514-BS	144305	9.34	230072	10.22	103880	13.51	126494	16.07	48311	6.84
MSM2514-MB	141699	9.34	219075	10.22	95998	13.50	124955	16.06	45453	6.84
ZZZZZZ	144317	9.34	222241	10.22	98766	13.51	124450	16.06	46885	6.84
MC35641-1	156171	9.34	245536	10.22	116241	13.50	150569	16.06	90198	6.85
MC35641-3	166105	9.34	261983	10.22	118768	13.50	158860	16.06	95851[c]	6.86
ZZZZZZ	164092	9.34	257794	10.22	113044	13.50	142084	16.06	55308	6.84
ZZZZZZ	93516	9.34	145697	10.22	65253	13.51	84202	16.07	40763	6.84
ZZZZZZ	160301	9.34	249941	10.22	109500	13.51	134235	16.06	55128	6.86
ZZZZZZ	152972	9.34	237185	10.22	105419	13.50	134376	16.06	42388	6.85
ZZZZZZ	155682	9.34	240476	10.22	105486	13.50	136862	16.06	53447	6.84
ZZZZZZ	153012	9.34	237880	10.22	104594	13.51	133540	16.07	49507	6.84
ZZZZZZ	146486	9.34	229429	10.22	99835	13.50	129568	16.07	48589	6.84
MC35641-1MS	163539	9.34	262074	10.22	183653	13.50	175164	16.07	91001	6.86
MC35641-1MSD	170716	9.34	288784	10.22	166925	13.51	99602	16.07	96684[c]	6.87
ZZZZZZ	177487	9.34	278947	10.22	127554	13.50	170060	16.06	100801[c]	6.85
ZZZZZZ	170610	9.34	270258	10.22	124349	13.50	161984	16.06	120630[c]	6.85
ZZZZZZ	175646	9.34	274637	10.22	125605	13.50	166710	16.06	99206[c]	6.84
ZZZZZZ	161760	9.34	252385	10.22	113216	13.51	145470	16.07	106958[c]	6.85
ZZZZZZ	170877	9.34	264597	10.22	114814	13.51	146689	16.06	53876	6.84
ZZZZZZ	170623	9.34	265879	10.22	115906	13.50	150654	16.06	52768	6.84
ZZZZZZ	164036	9.34	255915	10.22	113612	13.50	147959	16.06	53345	6.85
ZZZZZZ	169055	9.34	260021	10.22	114296	13.51	147437	16.06	58061	6.85

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 Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSU1058-CC1041	Injection Date:	12/20/14
Lab File ID:	U24817.D	Injection Time:	15:46
Instrument ID:	GCMSU	Method:	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	539660	8.96	929229	9.83	424982	13.08	523345	15.65	149500	6.74
Upper Limit [a]	1079320	9.46	1858458	10.33	849964	13.58	1046690	16.15	299000	7.24
Lower Limit [b]	269830	8.46	464615	9.33	212491	12.58	261673	15.15	74750	6.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1058-BS	586286	8.96	1032244	9.83	471869	13.08	565005	15.65	156183	6.73
MSU1058-MB	643954	8.96	1055993	9.83	405137	13.09	556288	15.66	235761	6.76
ZZZZZZ	661642	8.96	1076770	9.83	408634	13.09	564840	15.66	277782	6.63
ZZZZZZ	569628	8.97	924072	9.83	368452	13.09	533546	15.65	221755	6.74
ZZZZZZ	584471	8.96	954016	9.83	376793	13.09	549121	15.65	283256	6.65
ZZZZZZ	614092	8.97	977049	9.83	377520	13.09	533706	15.65	173035	6.75
ZZZZZZ	610692	8.96	1010697	9.83	405598	13.09	581983	15.65	230859	6.69
ZZZZZZ	633257	8.96	1035637	9.83	411252	13.09	557492	15.65	263074	6.62
ZZZZZZ	516613	8.97	846890	9.83	347809	13.09	516600	15.66	151961	6.78
ZZZZZZ	640801	8.97	1034957	9.83	396244	13.09	536326	15.65	228883	6.74
MC35963-6	546733	8.96	972601	9.83	441538	13.09	720736	15.65	352418[c]	6.60
ZZZZZZ	701771	8.96	1156642	9.83	463623	13.09	674180	15.65	223565	6.66
ZZZZZZ	655650	8.96	1271498	9.83	636415	13.09	866542	15.65	344321[c]	6.71
ZZZZZZ	606568	8.96	1174707	9.82	568871	13.08	818925	15.65	245592	6.66
MC35963-6MS	618869	8.96	1152603	9.83	581412	13.08	829763	15.65	282715	6.63
MC35963-6MSD	747290	8.96	1297148	9.83	573796	13.08	771503	15.65	279879	6.62
MSU1058-ECC1041	742395	8.95	1269665	9.83	545295	13.08	690228	15.65	220368	6.68

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 Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSU1059-CC1041	**Injection Date:**	12/21/14
Lab File ID:	U24855.D	**Injection Time:**	11:14
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
Upper Limit [a]	1535872	9.46	2560596	10.33	1101316	13.58	1299822	16.15	492784	7.19
Lower Limit [b]	383968	8.46	640149	9.33	275329	12.58	324956	15.15	123196	6.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1058-BS1	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
MSU1059-BS	767936	8.96	1280298	9.83	550658	13.08	649911	15.65	246392	6.69
MSU1058-MB1	741036	8.96	1181796	9.83	441971	13.09	618544	15.65	309055	6.64
MSU1059-MB	741036	8.96	1181796	9.83	441971	13.09	618544	15.65	309055	6.64
MC35641-5	723858	8.96	1160723	9.83	441404	13.09	613921	15.65	253580	6.67
ZZZZZZ	714417	8.96	1123286	9.83	399712	13.09	571263	15.65	348356	6.58
ZZZZZZ	628124	8.97	985949	9.83	376295	13.09	564343	15.65	218705	6.67
ZZZZZZ	555987	8.96	886164	9.83	366654	13.09	587403	15.65	212010	6.72
ZZZZZZ	712727	8.96	1161026	9.83	439116	13.09	600467	15.65	274795	6.66
MC35883-13	683914	8.96	1095274	9.83	398136	13.09	555749	15.65	304308	6.61
ZZZZZZ	699009	8.96	1155220	9.83	425986	13.09	586356	15.65	247587	6.68
ZZZZZZ	711034	8.97	1136455	9.83	427740	13.09	593678	15.65	250239	6.66
ZZZZZZ	573483	8.96	926878	9.83	374968	13.09	560914	15.65	197836	6.72
ZZZZZZ	679958	8.96	1103788	9.83	421241	13.09	562136	15.65	270097	6.67
ZZZZZZ	547675	8.97	903713	9.83	388669	13.09	583298	15.65	223974	6.72
ZZZZZZ	690965	8.96	1119300	9.83	426607	13.09	591840	15.65	255581	6.68
ZZZZZZ	701783	8.97	1112369	9.83	422198	13.09	583093	15.65	253656	6.66
ZZZZZZ	614673	8.96	981672	9.83	387575	13.09	554359	15.65	286373	6.60
ZZZZZZ	610809	8.96	1015745	9.83	425417	13.09	571367	15.65	217524	6.65
ZZZZZZ	640756	8.97	1025993	9.83	396748	13.09	557999	15.65	292790	6.65
ZZZZZZ	657140	8.96	1061015	9.83	398335	13.09	540133	15.65	198988	6.67
ZZZZZZ	661188	8.96	1051617	9.83	387836	13.09	544211	15.65	367482	6.60
ZZZZZZ	674632	8.96	1093582	9.83	409625	13.09	556072	15.65	287890	6.69

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35641-5	U24859.D	87	91	106
MC35963-6MS	U24840.D	102	104	103
MC35963-6MSD	U24841.D	91	96	106
MSU1058-BS1	U24855.D	85	97	111
MSU1058-MB	U24821.D	91	92	105
MSU1058-MB1	U24858.D	86	89	105

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

Volatile Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC35641-1	M70709.D	102	98	86
MC35641-2	K84413.D	115	109	108
MC35641-3	M70710.D	102	98	91
MC35638-1MS	K84407.D	109	106	103
MC35638-1MSD	K84408.D	104	104	101
MC35641-1MS	M70718.D	99	103	131* [a]
MC35641-1MSD	M70719.D	103	101	1378* [a]
MSK2649-BS	K84393.D	108	113	111
MSK2649-BSD	K84394.D	100	103	101
MSK2649-MB	K84396.D	112	97	103
MSM2514-BS	M70704.D	99	97	90
MSM2514-MB	M70707.D	97	98	88

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

(a) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MB	F78706.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	500	62	ug/kg	
95-57-8	2-Chlorophenol	ND	250	11	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	13	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	14	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	500	81	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	120	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	500	62	ug/kg	
95-48-7	2-Methylphenol	ND	500	20	ug/kg	
	3&4-Methylphenol	ND	500	24	ug/kg	
88-75-5	2-Nitrophenol	ND	500	13	ug/kg	
100-02-7	4-Nitrophenol	ND	990	93	ug/kg	
87-86-5	Pentachlorophenol	ND	500	35	ug/kg	
108-95-2	Phenol	ND	250	14	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	12	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	12	ug/kg	
62-53-3	Aniline	ND	500	25	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	10	ug/kg	
100-51-6	Benzyl Alcohol	ND	500	25	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	13	ug/kg	
106-47-8	4-Chloroaniline	ND	500	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	15	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	250	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	33	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	25	ug/kg	
132-64-9	Dibenzofuran	ND	99	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	26	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	7.8	ug/kg	
84-66-2	Diethyl phthalate	ND	250	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	9.2	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	16	ug/kg	

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MB	F78706.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	500	120	ug/kg	
67-72-1	Hexachloroethane	ND	250	12	ug/kg	
78-59-1	Isophorone	ND	250	11	ug/kg	
88-74-4	2-Nitroaniline	ND	500	12	ug/kg	
99-09-2	3-Nitroaniline	ND	500	27	ug/kg	
100-01-6	4-Nitroaniline	ND	500	12	ug/kg	
98-95-3	Nitrobenzene	ND	250	13	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	250	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	15	ug/kg	
110-86-1	Pyridine	ND	500	25	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	106%	30-130%
4165-62-2	Phenol-d5	114%	30-130%
118-79-6	2,4,6-Tribromophenol	126%	30-130%
4165-60-0	Nitrobenzene-d5	103%	30-130%
321-60-8	2-Fluorobiphenyl	102%	30-130%
1718-51-0	Terphenyl-d14	124%	30-130%

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

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41181-MB	I93429.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484

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

MC35641-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	0.86	ug/kg	
208-96-8	Acenaphthylene	ND	5.0	0.76	ug/kg	
120-12-7	Anthracene	ND	5.0	1.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	2.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.5	ug/kg	
218-01-9	Chrysene	ND	5.0	1.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.4	ug/kg	
206-44-0	Fluoranthene	ND	5.0	1.5	ug/kg	
86-73-7	Fluorene	ND	5.0	0.98	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	99	25	ug/kg	
91-57-6	2-Methylnaphthalene	ND	99	25	ug/kg	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/kg	
129-00-0	Pyrene	ND	5.0	1.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	93%	15-110%
4165-62-2	Phenol-d5	101%	15-110%
118-79-6	2,4,6-Tribromophenol	110%	15-110%
4165-60-0	Nitrobenzene-d5	100%	30-130%
321-60-8	2-Fluorobiphenyl	92%	30-130%
1718-51-0	Terphenyl-d14	133%* [a]	30-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41345-MB	I93523.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487

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

MC35641-2, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.9	0.84	ug/kg	
208-96-8	Acenaphthylene	ND	4.9	0.74	ug/kg	
120-12-7	Anthracene	ND	4.9	1.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4.9	2.2	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.9	1.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.9	2.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.9	1.5	ug/kg	
218-01-9	Chrysene	ND	4.9	1.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.4	ug/kg	
206-44-0	Fluoranthene	ND	4.9	1.4	ug/kg	
86-73-7	Fluorene	ND	4.9	0.96	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	97	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	97	24	ug/kg	
85-01-8	Phenanthrene	ND	4.9	1.0	ug/kg	
129-00-0	Pyrene	ND	4.9	1.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	80%	15-110%
4165-62-2	Phenol-d5	85%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	15-110%
4165-60-0	Nitrobenzene-d5	85%	30-130%
321-60-8	2-Fluorobiphenyl	80%	30-130%
1718-51-0	Terphenyl-d14	104%	30-130%

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-BS	F78707.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	2410	2010	83	30-130
95-57-8	2-Chlorophenol	2410	2040	85	30-130
59-50-7	4-Chloro-3-methyl phenol	2410	2120	88	30-130
120-83-2	2,4-Dichlorophenol	2410	2090	87	30-130
105-67-9	2,4-Dimethylphenol	2410	2240	93	30-130
51-28-5	2,4-Dinitrophenol	2410	1780	74	30-130
534-52-1	4,6-Dinitro-o-cresol	2410	2060	85	30-130
95-48-7	2-Methylphenol	2410	2140	89	30-130
	3&4-Methylphenol	4820	4150	86	30-130
88-75-5	2-Nitrophenol	2410	2130	88	30-130
100-02-7	4-Nitrophenol	2410	2450	102	30-130
87-86-5	Pentachlorophenol	2410	2090	87	30-130
108-95-2	Phenol	2410	2310	96	30-130
95-95-4	2,4,5-Trichlorophenol	2410	2140	89	30-130
88-06-2	2,4,6-Trichlorophenol	2410	2120	88	30-130
62-53-3	Aniline	2410	1840	76	40-140
101-55-3	4-Bromophenyl phenyl ether	2410	2160	90	40-140
85-68-7	Butyl benzyl phthalate	2410	2300	95	40-140
100-51-6	Benzyl Alcohol	2410	2610	108	40-140
91-58-7	2-Chloronaphthalene	2410	2240	93	40-140
106-47-8	4-Chloroaniline	2410	1680	70	40-140
111-91-1	bis(2-Chloroethoxy)methane	2410	2260	94	40-140
111-44-4	bis(2-Chloroethyl)ether	2410	2180	90	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2410	2860	119	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2410	2060	85	40-140
122-66-7	1,2-Diphenylhydrazine	2410	2370	98	40-140
121-14-2	2,4-Dinitrotoluene	2410	2340	97	40-140
606-20-2	2,6-Dinitrotoluene	2410	2180	90	40-140
91-94-1	3,3'-Dichlorobenzidine	2410	1970	82	40-140
132-64-9	Dibenzofuran	2410	2060	85	40-140
84-74-2	Di-n-butyl phthalate	2410	2190	91	40-140
117-84-0	Di-n-octyl phthalate	2410	2370	98	40-140
84-66-2	Diethyl phthalate	2410	2230	93	40-140
131-11-3	Dimethyl phthalate	2410	2180	90	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2410	2380	99	40-140
118-74-1	Hexachlorobenzene	2410	2130	88	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-BS	F78707.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	2410	1180	49	40-140
67-72-1	Hexachloroethane	2410	2100	87	40-140
78-59-1	Isophorone	2410	2030	84	40-140
88-74-4	2-Nitroaniline	2410	2280	95	40-140
99-09-2	3-Nitroaniline	2410	1790	74	40-140
100-01-6	4-Nitroaniline	2410	2160	90	40-140
98-95-3	Nitrobenzene	2410	2220	92	40-140
62-75-9	n-Nitrosodimethylamine	2410	2130	88	40-140
621-64-7	N-Nitroso-di-n-propylamine	2410	2520	105	40-140
86-30-6	N-Nitrosodiphenylamine	2410	1980	82	40-140
110-86-1	Pyridine	2410	1640	68	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	117%	30-130%
4165-62-2	Phenol-d5	123%	30-130%
118-79-6	2,4,6-Tribromophenol	138%* [a]	30-130%
4165-60-0	Nitrobenzene-d5	120%	30-130%
321-60-8	2-Fluorobiphenyl	114%	30-130%
1718-51-0	Terphenyl-d14	132%* [a]	30-130%

(a) Outside control limits. Individual spike recoveries within acceptance limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41181-BS	I93430.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484

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

MC35641-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2410	1940	80	40-140
208-96-8	Acenaphthylene	2410	1640	68	40-140
120-12-7	Anthracene	2410	2000	83	40-140
56-55-3	Benzo(a)anthracene	2410	2320	96	40-140
50-32-8	Benzo(a)pyrene	2410	2260	94	40-140
205-99-2	Benzo(b)fluoranthene	2410	2210	92	40-140
191-24-2	Benzo(g,h,i)perylene	2410	2220	92	40-140
207-08-9	Benzo(k)fluoranthene	2410	2100	87	40-140
218-01-9	Chrysene	2410	2060	85	40-140
53-70-3	Dibenzo(a,h)anthracene	2410	2290	95	40-140
206-44-0	Fluoranthene	2410	2110	88	40-140
86-73-7	Fluorene	2410	1980	82	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2410	2250	93	40-140
90-12-0	1-Methylnaphthalene	2410	1850	77	40-140
91-57-6	2-Methylnaphthalene	2410	1900	79	40-140
85-01-8	Phenanthrene	2410	1960	81	40-140
129-00-0	Pyrene	2410	2060	85	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	103%	15-110%
4165-62-2	Phenol-d5	110%	15-110%
118-79-6	2,4,6-Tribromophenol	123%* [a]	15-110%
4165-60-0	Nitrobenzene-d5	111%	30-130%
321-60-8	2-Fluorobiphenyl	103%	30-130%
1718-51-0	Terphenyl-d14	132%* [a]	30-130%

(a) Outside control limits. Individual spike recoveries within acceptance limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41345-BS	I93524.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487

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

MC35641-2, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2470	2060	83	40-140
208-96-8	Acenaphthylene	2470	1750	71	40-140
120-12-7	Anthracene	2470	2130	86	40-140
56-55-3	Benzo(a)anthracene	2470	2570	104	40-140
50-32-8	Benzo(a)pyrene	2470	2550	103	40-140
205-99-2	Benzo(b)fluoranthene	2470	2330	94	40-140
191-24-2	Benzo(g,h,i)perylene	2470	2530	102	40-140
207-08-9	Benzo(k)fluoranthene	2470	2510	102	40-140
218-01-9	Chrysene	2470	2340	95	40-140
53-70-3	Dibenzo(a,h)anthracene	2470	2580	104	40-140
206-44-0	Fluoranthene	2470	2400	97	40-140
86-73-7	Fluorene	2470	2130	86	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2470	2540	103	40-140
90-12-0	1-Methylnaphthalene	2470	1930	78	40-140
91-57-6	2-Methylnaphthalene	2470	1990	81	40-140
85-01-8	Phenanthrene	2470	2090	85	40-140
129-00-0	Pyrene	2470	2370	96	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	81%	15-110%
4165-62-2	Phenol-d5	84%	15-110%
118-79-6	2,4,6-Tribromophenol	103%	15-110%
4165-60-0	Nitrobenzene-d5	88%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	108%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MS	F78708.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
OP41180-MSD	F78709.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
MC35641-1	F78710.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	MC35641-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		2580	ND	0* [a]	2590	ND	0* [a]	nc	30-130/30
95-57-8	2-Chlorophenol	ND		2580	2040	79	2590	1950	75	5	30-130/30
59-50-7	4-Chloro-3-methyl phenol	ND		2580	2270	88	2590	2470	95	8	30-130/30
120-83-2	2,4-Dichlorophenol	ND		2580	2260	88	2590	2190	85	3	30-130/30
105-67-9	2,4-Dimethylphenol	ND		2580	2190	85	2590	2300	89	5	30-130/30
51-28-5	2,4-Dinitrophenol	ND		2580	1440	56	2590	1450	56	1	30-130/30
534-52-1	4,6-Dinitro-o-cresol	ND		2580	2010	78	2590	1990	77	1	30-130/30
95-48-7	2-Methylphenol	ND		2580	2100	81	2590	2080	80	1	30-130/30
	3&4-Methylphenol	ND		5160	4360	84	5180	4000	77	9	30-130/30
88-75-5	2-Nitrophenol	ND		2580	2010	78	2590	2000	77	0	30-130/30
100-02-7	4-Nitrophenol	ND		2580	2440	95	2590	2630	102	7	30-130/30
87-86-5	Pentachlorophenol	ND		2580	2230	86	2590	2230	86	0	30-130/30
108-95-2	Phenol	ND		2580	2400	93	2590	2230	86	7	30-130/30
95-95-4	2,4,5-Trichlorophenol	ND		2580	2150	83	2590	2190	85	2	30-130/30
88-06-2	2,4,6-Trichlorophenol	ND		2580	2190	85	2590	2230	86	2	30-130/30
62-53-3	Aniline	ND		2580	1800	70	2590	1700	66	6	40-140/30
101-55-3	4-Bromophenyl phenyl ether	ND		2580	2220	86	2590	2280	88	3	40-140/30
85-68-7	Butyl benzyl phthalate	ND		2580	2400	93	2590	2410	93	0	40-140/30
100-51-6	Benzyl Alcohol	ND		2580	2690	104	2590	2470	95	9	40-140/30
91-58-7	2-Chloronaphthalene	ND		2580	2330	90	2590	2380	92	2	40-140/30
106-47-8	4-Chloroaniline	ND		2580	1730	67	2590	1800	69	4	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	ND		2580	2170	84	2590	2200	85	1	40-140/30
111-44-4	bis(2-Chloroethyl)ether	ND		2580	2340	91	2590	2220	86	5	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2580	2770	107	2590	2850	110	3	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	ND		2580	2110	82	2590	2130	82	1	40-140/30
122-66-7	1,2-Diphenylhydrazine	ND		2580	2450	95	2590	2530	98	3	40-140/30
121-14-2	2,4-Dinitrotoluene	ND		2580	2340	91	2590	2390	92	2	40-140/30
606-20-2	2,6-Dinitrotoluene	ND		2580	2250	87	2590	2280	88	1	40-140/30
91-94-1	3,3'-Dichlorobenzidine	ND		2580	2060	80	2590	2090	81	1	40-140/30
132-64-9	Dibenzofuran	138		2580	2210	80	2590	2210	80	0	40-140/30
84-74-2	Di-n-butyl phthalate	ND		2580	2350	91	2590	2290	88	3	40-140/30
117-84-0	Di-n-octyl phthalate	ND		2580	2360	91	2590	2390	92	1	40-140/30
84-66-2	Diethyl phthalate	ND		2580	2230	86	2590	2310	89	4	40-140/30
131-11-3	Dimethyl phthalate	ND		2580	2210	86	2590	2270	88	3	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2580	2420	94	2590	2490	96	3	40-140/30
118-74-1	Hexachlorobenzene	ND		2580	2290	89	2590	2400	93	5	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41180-MS	F78708.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
OP41180-MSD	F78709.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433
MC35641-1	F78710.D	1	12/15/14	KD	12/10/14	OP41180	MSF3433

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	MC35641-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		2580	1080	42	2590	1030	40	5	40-140/30
67-72-1	Hexachloroethane	ND		2580	1950	76	2590	1860	72	5	40-140/30
78-59-1	Isophorone	ND		2580	1990	77	2590	1990	77	0	40-140/30
88-74-4	2-Nitroaniline	ND		2580	2490	96	2590	2440	94	2	40-140/30
99-09-2	3-Nitroaniline	ND		2580	2090	81	2590	2210	85	6	40-140/30
100-01-6	4-Nitroaniline	ND		2580	2260	88	2590	2430	94	7	40-140/30
98-95-3	Nitrobenzene	ND		2580	2270	88	2590	2210	85	3	40-140/30
62-75-9	n-Nitrosodimethylamine	ND		2580	2130	83	2590	1960	76	8	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	ND		2580	2880	112	2590	2610	101	10	40-140/30
86-30-6	N-Nitrosodiphenylamine	ND		2580	2280	88	2590	2460	95	8	40-140/30
110-86-1	Pyridine	ND		2580	1900	74	2590	1690	65	12	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35641-1	Limits
367-12-4	2-Fluorophenol	105%	105%	108%	30-130%
4165-62-2	Phenol-d5	114%	111%	114%	30-130%
118-79-6	2,4,6-Tribromophenol	127%	134%* [b]	119%	30-130%
4165-60-0	Nitrobenzene-d5	117%	114%	122%	30-130%
321-60-8	2-Fluorobiphenyl	103%	105%	100%	30-130%
1718-51-0	Terphenyl-d14	119%	122%	113%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Individual spike recoveries within acceptance limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41181-MS	I93431.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484
OP41181-MSD	I93432.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484
MC35641-1	I93433.D	1	12/17/14	MR	12/10/14	OP41181	MSI3484

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

MC35641-1

CAS No.	Compound	MC35641-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	86.7		2580	2040	76	2590	2020	75	1	40-140/30
208-96-8	Acenaphthylene	24.7		2580	1680	64	2590	1650	63	2	40-140/30
120-12-7	Anthracene	54.4		2580	2070	78	2590	2110	79	2	40-140/30
56-55-3	Benzo(a)anthracene	10.6		2580	2430	94	2590	2450	94	1	40-140/30
50-32-8	Benzo(a)pyrene	2.5	J	2580	2360	91	2590	2370	91	0	40-140/30
205-99-2	Benzo(b)fluoranthene	7.4		2580	2430	94	2590	2450	94	1	40-140/30
191-24-2	Benzo(g,h,i)perylene	2.0	J	2580	2260	88	2590	2280	88	1	40-140/30
207-08-9	Benzo(k)fluoranthene	ND		2580	2100	81	2590	2110	81	0	40-140/30
218-01-9	Chrysene	23.9		2580	2180	84	2590	2170	83	0	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		2580	2320	90	2590	2330	90	0	40-140/30
206-44-0	Fluoranthene	12.7		2580	2210	85	2590	2270	87	3	40-140/30
86-73-7	Fluorene	159		2580	2190	79	2590	2200	79	0	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2580	2290	89	2590	2300	89	0	40-140/30
90-12-0	1-Methylnaphthalene	2320		2580	3870	60	2590	3490	45	10	40-140/30
91-57-6	2-Methylnaphthalene	3730		2580	5320	62	2590	4550	32* [a]	16	40-140/30
85-01-8	Phenanthrene	469		2580	2270	70	2590	2360	73	4	40-140/30
129-00-0	Pyrene	43.6		2580	2200	84	2590	2230	84	1	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35641-1	Limits
367-12-4	2-Fluorophenol	97%	95%	94%	15-110%
4165-62-2	Phenol-d5	106%	106%	107%	15-110%
118-79-6	2,4,6-Tribromophenol	109%	116%* [b]	94%	15-110%
4165-60-0	Nitrobenzene-d5	91%	96%	91%	30-130%
321-60-8	2-Fluorobiphenyl	94%	96%	89%	30-130%
1718-51-0	Terphenyl-d14	128%	136%* [b]	127%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Results confirmed by reanalysis.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41345-MS	I93527.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487
OP41345-MSD	I93528.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487
MC35641-2	I93529.D	1	12/22/14	MR	12/19/14	OP41345	MSI3487
MC35641-2	I93530.D	5	12/22/14	MR	12/19/14	OP41345	MSI3487

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

MC35641-2, MC35641-3

CAS No.	Compound	MC35641-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	202		2720	2300	77	2740	2380	80	3	40-140/30
208-96-8	Acenaphthylene	75.2		2720	1830	65	2740	1880	66	3	40-140/30
120-12-7	Anthracene	119		2720	2370	83	2740	2460	86	4	40-140/30
56-55-3	Benzo(a)anthracene	23.6		2720	2750	100	2740	2910	105	6	40-140/30
50-32-8	Benzo(a)pyrene	8.3		2720	2600	95	2740	2750	100	6	40-140/30
205-99-2	Benzo(b)fluoranthene	14.1		2720	2720	99	2740	2760	100	1	40-140/30
191-24-2	Benzo(g,h,i)perylene	4.5	J	2720	2560	94	2740	2740	100	7	40-140/30
207-08-9	Benzo(k)fluoranthene	5.8		2720	2260	83	2740	2520	92	11	40-140/30
218-01-9	Chrysene	44.8		2720	2490	90	2740	2640	95	6	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		2720	2630	97	2740	2820	103	7	40-140/30
206-44-0	Fluoranthene	44.7		2720	2540	92	2740	2670	96	5	40-140/30
86-73-7	Fluorene	462		2720	2730	83	2740	2870	88	5	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	3.1	J	2720	2610	96	2740	2790	102	7	40-140/30
90-12-0	1-Methylnaphthalene	8180 [a]		2720	8370	58	2740	8920	78	6	40-140/30
91-57-6	2-Methylnaphthalene	13000 [a]		2720	12200	55	2740	13400	99	9	40-140/30
85-01-8	Phenanthrene	1140		2720	3240	77	2740	3480	85	7	40-140/30
129-00-0	Pyrene	115		2720	2570	90	2740	2720	95	6	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC35641-2	MC35641-2	Limits
367-12-4	2-Fluorophenol	90%	86%	83%	89%	15-110%
4165-62-2	Phenol-d5	94%	93%	87%	90%	15-110%
118-79-6	2,4,6-Tribromophenol	96%	102%	89%	105%	15-110%
4165-60-0	Nitrobenzene-d5	78%	90%	78%	93%	30-130%
321-60-8	2-Fluorobiphenyl	76%	78%	71%	88%	30-130%
1718-51-0	Terphenyl-d14	106%	114%	105%	107%	30-130%

(a) Result is from Run #2.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3433-CC3417	**Injection Date:**	12/15/14
Lab File ID:	F78705.D	**Injection Time:**	08:37
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	51194	2.62	188457	3.64	117517	5.11	225921	6.34	273084	8.58	278100	9.86
Upper Limit [a]	102388	3.12	376914	4.14	235034	5.61	451842	6.84	546168	9.08	556200	10.36
Lower Limit [b]	25597	2.12	94229	3.14	58759	4.61	112961	5.84	136542	8.08	139050	9.36

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
OP41180-MB	59006	2.62	213564	3.64	128876	5.11	232301	6.33	259190	8.58	252711	9.85
OP41180-BS	64526	2.62	222437	3.64	135657	5.11	244751	6.34	266771	8.58	265667	9.85
OP41180-MS	59619	2.63	212392	3.65	132636	5.12	235056	6.34	261496	8.59	264732	9.86
OP41180-MSD	65293	2.63	217241	3.65	138284	5.12	245598	6.34	285653	8.59	286513	9.86
MC35641-1	58749	2.63	212939	3.64	133176	5.12	253223	6.34	290574	8.58	282453	9.85
ZZZZZZ	58316	2.62	207483	3.64	124815	5.11	223264	6.33	243692	8.58	240525	9.85
ZZZZZZ	52630	2.62	208958	3.64	131024	5.11	243286	6.33	295182	8.58	296283	9.85
ZZZZZZ	62753	2.62	228429	3.64	139274	5.11	253147	6.33	284527	8.58	281639	9.85
ZZZZZZ	62821	2.62	225499	3.64	137281	5.11	251007	6.33	276502	8.58	272847	9.85
ZZZZZZ	62517	2.62	226108	3.64	137001	5.11	248202	6.33	278470	8.58	272937	9.85
ZZZZZZ	61488	2.62	223047	3.64	138411	5.11	248421	6.33	276954	8.58	271332	9.85
ZZZZZZ	56018	2.62	205691	3.63	136489	5.11	246730	6.33	277860	8.58	277264	9.85
ZZZZZZ	59355	2.62	214161	3.64	129302	5.11	234893	6.33	258821	8.57	255084	9.84
ZZZZZZ	57046	2.62	207292	3.64	136801	5.11	251760	6.33	279581	8.57	272029	9.85
ZZZZZZ	57443	2.62	205892	3.63	134046	5.11	243982	6.33	273112	8.57	260877	9.84
ZZZZZZ	61773	2.62	222919	3.64	143102	5.11	236382	6.34	277692	8.59	305360	9.87
ZZZZZZ	56985	2.62	214731	3.64	122625	5.11	237525	6.34	256604	8.59	300907	9.87
ZZZZZZ	62351	2.62	224535	3.64	148348	5.11	264960	6.34	276135	8.58	249210	9.85
ZZZZZZ	54952	2.62	210589	3.64	130187	5.11	236594	6.33	276211	8.58	299538	9.85
ZZZZZZ	59154	2.62	209841	3.64	128903	5.11	229315	6.34	268274	8.58	289662	9.85
ZZZZZZ	62526	2.62	225245	3.64	137082	5.11	242590	6.33	279418	8.58	289940	9.85
MC35641-2	66201	2.63	215105	3.65	136567	5.12	267834	6.34	281518	8.58	264900	9.85
MC35641-3	57670	2.62	203840	3.64	131039	5.11	249929	6.33	277058	8.58	290939	9.85
OP41228-MB	66472	2.62	253189	3.64	154447	5.11	274796	6.33	297556	8.58	309825	9.85
OP41228-BS	75912	2.62	272238	3.64	160091	5.11	291668	6.34	316188	8.58	323658	9.86
ZZZZZZ	65959	2.62	223634	3.64	133030	5.11	237229	6.33	255441	8.58	270915	9.85
ZZZZZZ	67921	2.62	241015	3.64	142943	5.11	256428	6.33	310918	8.58	327650	9.85
ZZZZZZ	66476	2.62	219126	3.64	135801	5.11	258417	6.33	285703	8.58	304861	9.85
ZZZZZZ	68776	2.62	250675	3.64	153626	5.11	274331	6.33	310766	8.58	336397	9.86
ZZZZZZ	62433	2.62	223156	3.64	137547	5.11	250776	6.34	296277	8.59	328920	9.88
OP41124-MB	63550	2.62	225762	3.64	138486	5.11	251934	6.34	296209	8.58	320130	9.86
OP41124-BS	65032	2.62	234280	3.64	141907	5.11	259474	6.34	300101	8.59	331713	9.86
OP41124-MS	69143	2.62	251934	3.64	152735	5.11	273406	6.34	307798	8.59	331416	9.86
OP41124-MSD	71257	2.62	262303	3.64	157950	5.11	285585	6.34	319514	8.59	343193	9.86
MC35413-19	65055	2.62	234739	3.64	148889	5.11	276066	6.34	320984	8.58	341579	9.85

Semivolatile Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3433-CC3417	**Injection Date:**	12/15/14
Lab File ID:	F78705.D	**Injection Time:**	08:37
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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
ZZZZZZ	63063	2.62	248497	3.64	151182	5.11	275009	6.33	313900	8.58	336745	9.85
ZZZZZZ	58918	2.62	218573	3.64	153569	5.11	279861	6.33	318227	8.58	338723	9.85

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3434-CC3417	**Injection Date:**	12/16/14
Lab File ID:	F78746.D	**Injection Time:**	08:22
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	56066	2.59	205425	3.61	126996	5.08	254160	6.31	295526	8.55	295664	9.81
Upper Limit [a]	112132	3.09	410850	4.11	253992	5.58	508320	6.81	591052	9.05	591328	10.31
Lower Limit [b]	28033	2.09	102713	3.11	63498	4.58	127080	5.81	147763	8.05	147832	9.31
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**
OP41250-MB	86919	2.59	300603	3.61	177831	5.08	352812	6.30	391447	8.54	370144	9.80
OP41250-BS	88929	2.59	297465	3.61	196582	5.08	308329	6.31	342090	8.55	330574	9.81
ZZZZZZ	84832	2.59	303272	3.61	187473	5.08	373523	6.30	410601	8.54	397099	9.80
ZZZZZZ	51856	2.59	190466	3.61	117616	5.08	217337	6.30	264079	8.54	283822	9.80
ZZZZZZ	97090	2.59	326784	3.61	215704	5.08	341215	6.30	365474	8.54	334509	9.80
ZZZZZZ	89135	2.59	324019	3.61	194897	5.08	350190	6.30	381832	8.54	360223	9.80
ZZZZZZ	81614	2.59	287615	3.61	176994	5.08	322516	6.30	358304	8.54	332031	9.80
ZZZZZZ	86862	2.59	317095	3.60	196310	5.08	354336	6.30	388904	8.54	362610	9.80
ZZZZZZ	92834	2.59	318296	3.60	203969	5.08	379178	6.30	401668	8.54	366981	9.80
OP41263-MB	87719	2.59	283983	3.60	188195	5.08	341594	6.30	375632	8.54	347627	9.80
OP41263-BS	90366	2.59	363452	3.61	193021	5.08	358626	6.31	407137	8.55	371812	9.81
ZZZZZZ	92293	2.59	327288	3.61	191080	5.08	332659	6.30	322440	8.54	305317	9.80
ZZZZZZ	63573	2.58	229525	3.61	139699	5.08	253077	6.30	282095	8.54	288759	9.80
ZZZZZZ	73030	2.58	263427	3.61	159887	5.08	283644	6.30	339223	8.54	340852	9.80
ZZZZZZ	66465	2.59	225402	3.60	145683	5.08	269266	6.30	317008	8.54	318094	9.80
ZZZZZZ	79133	2.59	276022	3.61	163109	5.08	298091	6.30	279129	8.54	309914	9.80
ZZZZZZ	64645	2.59	249142	3.61	135410	5.08	269656	6.30	275636	8.54	304068	9.80
ZZZZZZ	66737	2.59	216396	3.60	149492	5.08	271271	6.30	288698	8.54	320110	9.80
ZZZZZZ	68976	2.58	249156	3.61	162674	5.08	305979	6.30	339432	8.54	337121	9.80
ZZZZZZ	72843	2.59	259243	3.60	161083	5.08	282254	6.30	316093	8.54	313569	9.80
ZZZZZZ	75896	2.58	274943	3.61	165567	5.08	319421	6.30	357102	8.54	361584	9.80
ZZZZZZ	70217	2.59	247837	3.60	148697	5.08	270545	6.30	304465	8.54	280311	9.80
ZZZZZZ	70860	2.59	255735	3.61	153514	5.08	273279	6.30	281514	8.54	274687	9.80
ZZZZZZ	71340	2.59	251822	3.61	150699	5.08	273362	6.30	296290	8.54	270730	9.80
ZZZZZZ	63638	2.59	236784	3.61	130144	5.08	253429	6.30	288210	8.54	279261	9.80
ZZZZZZ	49962	2.59	175514	3.60	111860	5.08	207435	6.30	244354	8.54	250298	9.80
ZZZZZZ	54366	2.58	192284	3.60	119453	5.08	220441	6.30	271595	8.54	278464	9.81
ZZZZZZ	61559	2.59	217715	3.60	134831	5.08	240935	6.30	269235	8.54	283513	9.80
ZZZZZZ	51884	2.58	182252	3.60	115236	5.08	210251	6.30	239788	8.54	248270	9.80
MC35641-2 [c]	59113	2.59	210660	3.61	126870	5.08	226294	6.30	243769	8.54	247445	9.80

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

Semivolatile Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSF3434-CC3417	**Injection Date:**	12/16/14
Lab File ID:	F78746.D	**Injection Time:**	08:22
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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 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) Confirmation run for surrogate recoveries.

Semivolatile Internal Standard Area Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3484-CC3483	**Injection Date:**	12/17/14
Lab File ID:	I93425.D	**Injection Time:**	08:16
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	260426	3.92	541114	4.97	314828	6.49	554627	7.85	408507	10.62	1034573	12.09
Upper Limit [a]	520852	4.42	1082228	5.47	629656	6.99	1109254	8.35	817014	11.12	2069146	12.59
Lower Limit [b]	130213	3.42	270557	4.47	157414	5.99	277314	7.35	204254	10.12	517287	11.59
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**
OP41257-MB	309458	3.92	637108	4.97	370188	6.49	645502	7.85	482665	10.62	1224462	12.09
OP41257-BS	313917	3.92	644556	4.97	371398	6.49	657904	7.86	494470	10.63	1190638	12.09
ZZZZZZ	295961	3.92	615643	4.97	356630	6.49	616342	7.85	453588	10.62	1154124	12.09
OP41181-MB	310648	3.92	635994	4.97	363265	6.49	627191	7.85	454956	10.62	1139286	12.09
OP41181-BS	312771	3.92	640635	4.97	367395	6.49	644576	7.86	470286	10.63	1122284	12.09
OP41181-MS	313702	3.93	645882	4.97	381177	6.50	655441	7.86	472872	10.63	1084790	12.10
OP41181-MSD	301995	3.93	624247	4.97	369846	6.50	625594	7.86	447748	10.63	1018243	12.09
MC35641-1	293710	3.93	618187	4.97	364703	6.50	614678	7.86	435724	10.62	1029229	12.09
OP41179-MB	264317	3.92	545052	4.96	315199	6.49	538716	7.85	401104	10.62	981926	12.09
OP41179-BS	251306	3.92	517580	4.96	299089	6.49	521028	7.85	388521	10.62	956390	12.09
OP41179-BSD	266519	3.92	553226	4.96	320541	6.49	554675	7.85	410930	10.62	1009052	12.09
ZZZZZZ	244087	3.92	503055	4.96	288750	6.49	501601	7.85	363391	10.62	900483	12.09
ZZZZZZ	250370	3.92	517240	4.96	297726	6.49	508974	7.85	369217	10.62	918799	12.09
ZZZZZZ	255596	3.92	527284	4.96	300028	6.49	516818	7.85	374975	10.62	930606	12.09
ZZZZZZ	266419	3.92	540946	4.97	313313	6.49	540211	7.85	385919	10.62	947317	12.09
ZZZZZZ	272033	3.92	548136	4.97	322243	6.49	548984	7.85	396432	10.62	974776	12.09
ZZZZZZ	257502	3.92	531911	4.96	307381	6.49	529926	7.85	392374	10.62	975948	12.09
ZZZZZZ	248801	3.92	510024	4.96	292465	6.49	505696	7.85	366212	10.62	909000	12.09
ZZZZZZ	290317	3.92	599277	4.96	345079	6.49	597038	7.85	424860	10.62	1023813	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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3487-CC3483	**Injection Date:**	12/22/14
Lab File ID:	I93520.D	**Injection Time:**	10:00
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	306413	3.85	607593	4.90	347023	6.43	611523	7.78	440794	10.54	1128538	12.00
Upper Limit [a]	612826	4.35	1215186	5.40	694046	6.93	1223046	8.28	881588	11.04	2257076	12.50
Lower Limit [b]	153207	3.35	303797	4.40	173512	5.93	305762	7.28	220397	10.04	564269	11.50
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**
OP41348-MB	307002	3.85	608426	4.90	341697	6.42	582422	7.77	423115	10.54	1080094	12.00
OP41348-LB	307002	3.85	608426	4.90	341697	6.42	582422	7.77	423115	10.54	1080094	12.00
OP41348-BS	295489	3.85	595776	4.90	333943	6.42	599473	7.78	450511	10.55	1088078	12.01
OP41345-MB	319351	3.86	637023	4.90	360006	6.42	622372	7.77	435162	10.54	1087620	12.00
OP41345-BS	296863	3.86	577283	4.90	327431	6.42	572366	7.78	405036	10.54	980438	12.01
ZZZZZZ	308955	3.86	611205	4.90	346677	6.42	587491	7.77	398846	10.54	1002115	12.00
ZZZZZZ	291383	3.88	484626	4.91	371522	6.43	620363	7.78	442707	10.54	1116753	12.00
OP41345-MS	271310	3.86	581641	4.92	354034	6.44	593782	7.78	430764	10.55	1055713	12.01
OP41345-MSD	277023	3.86	587447	4.92	364061	6.44	612414	7.78	447498	10.55	1091277	12.01
MC35641-2	283286	3.86	603944	4.91	369877	6.44	617440	7.78	432864	10.54	1077093	12.01
MC35641-2	258542	3.86	536336	4.90	308723	6.42	526206	7.78	385598	10.54	980151	12.00
OP41266-MB	327214	3.85	672459	4.90	386345	6.42	665926	7.78	494923	10.54	1256679	12.01
OP41266-BS	326087	3.86	666838	4.90	384987	6.43	684662	7.78	513620	10.55	1247800	12.01
ZZZZZZ	339706	3.85	696620	4.90	395828	6.42	686742	7.78	511710	10.54	1279429	12.00

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3488-CC3483	**Injection Date:**	12/22/14
Lab File ID:	I93536.D	**Injection Time:**	16:18
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	286008	3.84	583480	4.88	349011	6.41	628932	7.75	475884	10.52	1213026	11.98
Upper Limit [a]	572016	4.34	1166960	5.38	698022	6.91	1257864	8.25	951768	11.02	2426052	12.48
Lower Limit [b]	143004	3.34	291740	4.38	174506	5.91	314466	7.25	237942	10.02	606513	11.48

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
MC35641-3	317916	3.84	643151	4.88	365610	6.41	628279	7.75	442841	10.52	1105747	11.98
ZZZZZZ	315285	3.83	648611	4.88	371333	6.40	640329	7.75	488016	10.52	1214626	11.98
ZZZZZZ	303243	3.83	616186	4.88	356826	6.41	617278	7.75	473049	10.52	1166657	11.98
ZZZZZZ	272027	3.84	548369	4.88	326629	6.41	572743	7.75	444992	10.52	1124483	11.98
ZZZZZZ	306057	3.84	609410	4.88	352898	6.41	624146	7.75	465262	10.52	1181464	11.98
ZZZZZZ	286420	3.84	576008	4.88	342045	6.41	616548	7.75	462997	10.52	1165858	11.98
ZZZZZZ	277263	3.84	559539	4.88	329383	6.40	595126	7.75	450727	10.52	1147072	11.98
ZZZZZZ	275317	3.84	553355	4.88	327004	6.41	589233	7.75	445729	10.52	1141740	11.98
ZZZZZZ	347285	3.83	704875	4.88	404003	6.40	692944	7.75	499905	10.52	1232287	11.98
OP41310-BS	340159	3.84	691982	4.88	406777	6.41	719718	7.75	544662	10.53	1301136	11.99
OP41310-MS	303526	3.84	622309	4.88	360114	6.40	644820	7.75	481577	10.52	1152195	11.98
OP41310-MSD	323294	3.84	657021	4.88	380555	6.41	676787	7.75	505073	10.52	1215132	11.98
MC35800-8	289184	3.83	589162	4.88	338102	6.41	590692	7.75	434334	10.52	1112785	11.98
ZZZZZZ	314743	3.83	645933	4.88	369526	6.40	651299	7.75	480400	10.52	1234624	11.98
ZZZZZZ	272233	3.83	553378	4.88	323811	6.41	577727	7.75	426073	10.52	1093974	11.98
ZZZZZZ	315317	3.83	647173	4.88	369095	6.40	630362	7.75	446916	10.52	1125559	11.98
ZZZZZZ	235475	3.84	547887	4.89	338195	6.41	609156	7.77	433559	10.53	1052158	11.99
ZZZZZZ	280097	3.83	573555	4.88	331026	6.41	572572	7.75	408998	10.52	957842	11.98
OP41266-MS	339338	3.84	704334	4.89	410882	6.41	737055	7.75	541155	10.53	1293576	11.99
OP41266-MSD	367399	3.84	754766	4.88	430024	6.41	751429	7.75	551274	10.52	1291632	11.98
MC35700-23	346977	3.83	718351	4.88	414981	6.41	704808	7.75	508808	10.52	1245591	11.98
ZZZZZZ	361902	3.83	739983	4.88	432190	6.41	751699	7.75	544044	10.52	1331730	11.98
ZZZZZZ	342111	3.83	709695	4.88	410302	6.41	712198	7.75	512313	10.52	1248679	11.98
OP41341-MB	340512	3.83	688870	4.88	393545	6.41	666966	7.75	474801	10.52	1151753	11.98
OP41341-BS	342714	3.84	692928	4.88	394063	6.41	689511	7.75	504244	10.53	1186825	11.98
ZZZZZZ	311698	3.83	631098	4.88	363904	6.41	624556	7.75	446019	10.52	1061123	11.98
ZZZZZZ	355617	3.84	720496	4.88	383484	6.41	672676	7.76	490886	10.54	1170930	12.00

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	MSI3488-CC3483	**Injection Date:**	12/22/14
Lab File ID:	I93536.D	**Injection Time:**	16:18
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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 Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC35641-1	F78710.D	108	114	119	122	100	113
MC35641-2	F78776.D	113	123	131* [a]	155* [b]	119	133* [a]
MC35641-2	F78727.D	112	114	113	154* [b]	102	123
MC35641-3	F78728.D	111	120	129	110	105	122
OP41180-BS	F78707.D	117	123	138* [c]	120	114	132* [c]
OP41180-MB	F78706.D	106	114	126	103	102	124
OP41180-MS	F78708.D	105	114	127	117	103	119
OP41180-MSD	F78709.D	105	111	134* [c]	114	105	122

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

(a) Outside control limits due to dilution.
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(c) Outside control limits. Individual spike recoveries within acceptance limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC35641-1	I93433.D	94	107	94	91	89	127
MC35641-2	I93529.D	83	87	89	78	71	105
MC35641-2	I93530.D	89	90	105	93	88	107
MC35641-3	I93537.D	79	83	94	81	76	102
OP41181-BS	I93430.D	103	110	123* [a]	111	103	132* [a]
OP41181-MB	I93429.D	93	101	110	100	92	133* [b]
OP41181-MS	I93431.D	97	106	109	91	94	128
OP41181-MSD	I93432.D	95	106	116* [c]	96	96	136* [c]
OP41345-BS	I93524.D	81	84	103	88	82	108
OP41345-MB	I93523.D	80	85	92	85	80	104
OP41345-MS	I93527.D	90	94	96	78	76	106
OP41345-MSD	I93528.D	86	93	102	90	78	114

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. Individual spike recoveries within acceptance limits.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) Outside control limits. Results confirmed by reanalysis.

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MB	BB61295.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.73	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.5	0.61	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	110%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MB	YZ92498.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35641-4

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	36-173%

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4693-MB	AB87234.D	1	12/10/14	AF	n/a	n/a	GAB4693

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35641-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	91%	50-130%

Method Blank Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4693-MB1	AB87262.D	1	12/11/14	AF	n/a	n/a	GAB4693

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35641-2, MC35641-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	88%	50-130%

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-BS	BB61296.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	33.1	28.4	86	59-142
106-93-4	1,2-Dibromoethane	33.1	29.3	88	56-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	61-167%
460-00-4	Bromofluorobenzene (S)	109%	61-167%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-BS	YZ92499.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35641-4

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	0.067	94	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	93%	36-173%
460-00-4	Bromofluorobenzene (S)	99%	36-173%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4693-BSP	AB87235.D	1	12/10/14	AF	n/a	n/a	GAB4693
GAB4693-BSD	AB87236.D	1	12/10/14	AF	n/a	n/a	GAB4693

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35641-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	29.9	92	30.5	94	2	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	100%	102%	50-130%

* = Outside of Control Limits.

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Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4693-BSP1	AB87263.D	1	12/11/14	AF	n/a	n/a	GAB4693
GAB4693-BSD1	AB87264.D	1	12/11/14	AF	n/a	n/a	GAB4693

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35641-2, MC35641-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	32.3	99	32.8	101	2	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	101%	103%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41183-MS	BB61297.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
OP41183-MSD	BB61298.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368
MC35568-4	BB61299.D	1	12/11/14	NK	12/10/14	OP41183	GBB3368

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

MC35641-1, MC35641-2, MC35641-3

CAS No.	Compound	MC35568-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		35.2	37.8	108	35.4	36.8	104	3	40-156/27
106-93-4	1,2-Dibromoethane	ND		35.2	35.5	101	35.4	34.7	98	2	48-141/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35568-4	Limits
460-00-4	Bromofluorobenzene (S)	134%	124%	131%	61-167%
460-00-4	Bromofluorobenzene (S)	129%	120%	132%	61-167%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41251-MS	YZ92506.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
OP41251-MSD	YZ92507.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687
MC35700-18	YZ92509.D	1	12/15/14	NK	12/15/14	OP41251	GYZ7687

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

MC35641-4

CAS No.	Compound	MC35700-18 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	0.056	79	0.071	0.059	83	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.062	87	0.071	0.074	104	18	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC35700-18	Limits
460-00-4	Bromofluorobenzene (S)	85%	83%	81%	36-173%
460-00-4	Bromofluorobenzene (S)	94%	94%	88%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC35641-2MS	AB87268.D	1	12/11/14	AF	n/a	n/a	GAB4693
MC35641-2MSD	AB87269.D	1	12/11/14	AF	n/a	n/a	GAB4693
MC35641-2	AB87267.D	1	12/11/14	AF	n/a	n/a	GAB4693

The QC reported here applies to the following samples: **Method:** SW846 8015

MC35641-1, MC35641-2

CAS No.	Compound	MC35641-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		43.7	43.7	100	43.7	43.9	101	0	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC35641-2	Limits
	2,3,4-Trifluorotoluene	101%	102%	89%	50-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 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]
MC35641-4	YZ92505.D	83	88
OP41251-BS	YZ92499.D	93	99
OP41251-MB	YZ92498.D	81	94
OP41251-MS	YZ92506.D	85	94
OP41251-MSD	YZ92507.D	83	94

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

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

Volatile Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC35641-1	BB61303.D	130	122
MC35641-2	BB61304.D	150	135
MC35641-3	BB61306.D	150	128
OP41183-BS	BB61296.D	118	109
OP41183-MB	BB61295.D	110	109
OP41183-MS	BB61297.D	134	129
OP41183-MSD	BB61298.D	124	120

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	61-167%

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

Volatile Surrogate Recovery Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Method: SW846 8015 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC35641-1	AB87245.D	96
MC35641-2	AB87267.D	89
MC35641-3	AB87266.D	90
GAB4693-BSD	AB87236.D	102
GAB4693-BSD1	AB87264.D	103
GAB4693-BSP	AB87235.D	100
GAB4693-BSP1	AB87263.D	101
GAB4693-MB	AB87234.D	91
GAB4693-MB1	AB87262.D	88
MC35641-2MS	AB87268.D	101
MC35641-2MSD	AB87269.D	102

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	50-130%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GBB3368-CC3368	**Injection Date:**	12/11/14
Lab File ID:	BB61294.D	**Injection Time:**	11:30
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.93	4.06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41183-MB	BB61295.D	12/11/14	11:51	3.92	4.06
OP41183-BS	BB61296.D	12/11/14	12:12	3.93	4.06
OP41183-MS	BB61297.D	12/11/14	12:34	3.92	4.06
OP41183-MSD	BB61298.D	12/11/14	12:56	3.92	4.06
MC35568-4	BB61299.D	12/11/14	13:47	3.92	4.06
ZZZZZZ	BB61300.D	12/11/14	14:08	3.92	4.06
ZZZZZZ	BB61301.D	12/11/14	14:29	3.92	4.06
ZZZZZZ	BB61302.D	12/11/14	14:51	3.92	4.06
MC35641-1	BB61303.D	12/11/14	15:12	3.92	4.06
MC35641-2	BB61304.D	12/11/14	15:33	3.92	4.06

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GBB3368-CC3368	**Injection Date:**	12/11/14
Lab File ID:	BB61305.D	**Injection Time:**	15:54
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.92	4.06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC35641-3	BB61306.D	12/11/14	16:18	3.92	4.06
ZZZZZZ	BB61307.D	12/11/14	16:41	3.92	4.06
ZZZZZZ	BB61308.D	12/11/14	17:03	3.92	4.06
ZZZZZZ	BB61309.D	12/11/14	17:25	3.92	4.06
GBB3368-ECC3368	BB61310.D	12/11/14	17:47	3.92	4.06

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GYZ7687-ICC7687	**Injection Date:**	12/15/14
Lab File ID:	YZ92494.D	**Injection Time:**	17:51
Instrument ID:	GCYZ	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	3.36	3.49

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41251-MB	YZ92498.D	12/15/14	18:56	3.36	3.50
OP41251-BS	YZ92499.D	12/15/14	19:12	3.36	3.49
ZZZZZZ	YZ92500.D	12/15/14	19:28	3.36	3.50
ZZZZZZ	YZ92501.D	12/15/14	19:45	3.36	3.50
ZZZZZZ	YZ92502.D	12/15/14	20:01	3.36	3.49
ZZZZZZ	YZ92503.D	12/15/14	20:17	3.36	3.49
ZZZZZZ	YZ92504.D	12/15/14	20:34	3.36	3.49
MC35641-4	YZ92505.D	12/15/14	20:50	3.36	3.49
OP41251-MS	YZ92506.D	12/15/14	21:07	3.36	3.49
OP41251-MSD	YZ92507.D	12/15/14	21:23	3.36	3.50

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: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4694-CC4654	**Injection Date:**	12/10/14
Lab File ID:	AB87233A.D	**Injection Time:**	07:47
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std		20.31	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4694-MB	AB87234A.D	12/10/14	08:25		20.31	
GAB4693-MB	AB87234.D	12/10/14	08:25		20.31	
GAB4695-MB	AB87234B.D	12/10/14	08:25	15.25		20.30
GAB4695-BSP	AB87235B.D	12/10/14	09:03	15.25		20.30
GAB4693-BSP	AB87235.D	12/10/14	09:03		20.31	
GAB4694-BSP	AB87235A.D	12/10/14	09:03		20.31	
GAB4693-BSD	AB87236.D	12/10/14	09:41		20.31	
GAB4694-BSD	AB87236A.D	12/10/14	09:41		20.31	
GAB4695-BSD	AB87236B.D	12/10/14	09:41	15.25		20.31
MC35647-4	AB87237.D	12/10/14	10:19	15.25		20.31
MC35647-4	AB87237A.D	12/10/14	10:19		20.31	
MC35647-4MS	AB87241A.D	12/10/14	12:49		20.31	
MC35647-4MS	AB87241.D	12/10/14	12:49	15.25		20.30
MC35647-4MSD	AB87242A.D	12/10/14	13:26		20.31	
MC35647-4MSD	AB87242.D	12/10/14	13:26	15.25		20.30

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4693-CC4654	**Injection Date:**	12/10/14
Lab File ID:	AB87233.D	**Injection Time:**	07:47
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std		20.31	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4694-MB	AB87234A.D	12/10/14	08:25		20.31	
GAB4693-MB	AB87234.D	12/10/14	08:25		20.31	
GAB4695-MB	AB87234B.D	12/10/14	08:25	15.25		20.30
GAB4695-BSP	AB87235B.D	12/10/14	09:03	15.25		20.30
GAB4693-BSP	AB87235.D	12/10/14	09:03		20.31	
GAB4694-BSP	AB87235A.D	12/10/14	09:03		20.31	
GAB4693-BSD	AB87236.D	12/10/14	09:41		20.31	
GAB4694-BSD	AB87236A.D	12/10/14	09:41		20.31	
GAB4695-BSD	AB87236B.D	12/10/14	09:41	15.25		20.31
MC35647-4	AB87237.D	12/10/14	10:19	15.25		20.31
MC35647-4	AB87237A.D	12/10/14	10:19		20.31	
MC35647-4MS	AB87241A.D	12/10/14	12:49		20.31	
MC35647-4MS	AB87241.D	12/10/14	12:49	15.25		20.30
MC35647-4MSD	AB87242A.D	12/10/14	13:26		20.31	
MC35647-4MSD	AB87242.D	12/10/14	13:26	15.25		20.30

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4693-CC4654	**Injection Date:**	12/10/14
Lab File ID:	AB87243.D	**Injection Time:**	14:04
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std			20.31

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	AB87244.D	12/10/14	14:42	15.25	20.31	
MC35641-1	AB87245.D	12/10/14	15:20			20.30
ZZZZZZ	AB87247A.D	12/10/14	16:35		20.31	
ZZZZZZ	AB87248.D	12/10/14	17:13	15.25	20.31	
ZZZZZZ	AB87248A.D	12/10/14	17:13		20.31	
ZZZZZZ	AB87249A.D	12/10/14	17:51		20.31	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

8.9.6

8

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4694-CC4654	**Injection Date:**	12/10/14
Lab File ID:	AB87243A.D	**Injection Time:**	14:04
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std			20.31

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	AB87244.D	12/10/14	14:42	15.25	20.31	
MC35641-1	AB87245.D	12/10/14	15:20			20.30
ZZZZZZ	AB87247A.D	12/10/14	16:35		20.31	
ZZZZZZ	AB87248.D	12/10/14	17:13	15.25	20.31	
ZZZZZZ	AB87248A.D	12/10/14	17:13		20.31	
ZZZZZZ	AB87249A.D	12/10/14	17:51		20.31	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4693-CC4654	**Injection Date:**	12/11/14
Lab File ID:	AB87261B.D	**Injection Time:**	14:21
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std		20.30	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4693-MB1	AB87262.D	12/11/14	14:58		20.31	
GAB4693-BSP1	AB87263.D	12/11/14	15:36		20.31	
GAB4693-BSD1	AB87264.D	12/11/14	16:14		20.30	
ZZZZZZ	AB87265.D	12/11/14	16:51	15.25		20.30
MC35641-3	AB87266.D	12/11/14	17:28		20.30	
MC35641-2	AB87267.D	12/11/14	18:05		20.30	
MC35641-2MS	AB87268.D	12/11/14	18:42		20.30	
MC35641-2MSD	AB87269.D	12/11/14	19:19		20.30	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

8.6.8

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4696-CC4654	**Injection Date:**	12/11/14
Lab File ID:	AB87261.D	**Injection Time:**	14:21
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std		20.30	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4693-MB1	AB87262.D	12/11/14	14:58		20.31	
GAB4693-BSP1	AB87263.D	12/11/14	15:36		20.31	
GAB4693-BSD1	AB87264.D	12/11/14	16:14		20.30	
ZZZZZZ	AB87265.D	12/11/14	16:51	15.25		20.30
MC35641-3	AB87266.D	12/11/14	17:28		20.30	
MC35641-2	AB87267.D	12/11/14	18:05		20.30	
MC35641-2MS	AB87268.D	12/11/14	18:42		20.30	
MC35641-2MSD	AB87269.D	12/11/14	19:19		20.30	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4695-CC4656	**Injection Date:**	12/10/14
Lab File ID:	AB87233B.D	**Injection Time:**	07:47
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std	15.25		20.30

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4694-MB	AB87234A.D	12/10/14	08:25		20.31	
GAB4693-MB	AB87234.D	12/10/14	08:25		20.31	
GAB4695-MB	AB87234B.D	12/10/14	08:25	15.25		20.30
GAB4695-BSP	AB87235B.D	12/10/14	09:03	15.25		20.30
GAB4693-BSP	AB87235.D	12/10/14	09:03		20.31	
GAB4694-BSP	AB87235A.D	12/10/14	09:03		20.31	
GAB4693-BSD	AB87236.D	12/10/14	09:41		20.31	
GAB4694-BSD	AB87236A.D	12/10/14	09:41		20.31	
GAB4695-BSD	AB87236B.D	12/10/14	09:41	15.25		20.31
MC35647-4	AB87237.D	12/10/14	10:19	15.25		20.31
MC35647-4	AB87237A.D	12/10/14	10:19		20.31	
MC35647-4MS	AB87241A.D	12/10/14	12:49		20.31	
MC35647-4MS	AB87241.D	12/10/14	12:49	15.25		20.30
MC35647-4MSD	AB87242A.D	12/10/14	13:26		20.31	
MC35647-4MSD	AB87242.D	12/10/14	13:26	15.25		20.30

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4695-CC4656	**Injection Date:**	12/10/14
Lab File ID:	AB87243B.D	**Injection Time:**	14:04
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [a] RT	S2 [b] RT
Check Std	15.25	20.30	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	AB87244.D	12/10/14	14:42	15.25	20.31	
MC35641-1	AB87245.D	12/10/14	15:20			20.30
ZZZZZZ	AB87247A.D	12/10/14	16:35		20.31	
ZZZZZZ	AB87248.D	12/10/14	17:13	15.25	20.31	
ZZZZZZ	AB87248A.D	12/10/14	17:13		20.31	
ZZZZZZ	AB87249A.D	12/10/14	17:51		20.31	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

GC Surrogate Retention Time Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Check Std:	GAB4697-CC4656	**Injection Date:**	12/11/14
Lab File ID:	AB87261A.D	**Injection Time:**	14:21
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT	S2 [b] RT	S2 [a] RT
Check Std	15.25		20.30

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S2 [a] RT
GAB4693-MB1	AB87262.D	12/11/14	14:58		20.31	
GAB4693-BSP1	AB87263.D	12/11/14	15:36		20.31	
GAB4693-BSD1	AB87264.D	12/11/14	16:14		20.30	
ZZZZZZ	AB87265.D	12/11/14	16:51	15.25		20.30
MC35641-3	AB87266.D	12/11/14	17:28		20.30	
MC35641-2	AB87267.D	12/11/14	18:05		20.30	
MC35641-2MS	AB87268.D	12/11/14	18:42		20.30	
MC35641-2MSD	AB87269.D	12/11/14	19:19		20.30	

Surrogate Compounds

S1 = Fluorobenzene
S2 = 2,3,4-Trifluorotoluene

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

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC35641
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana WRR Well Replacement, 900 Central Avenue, Roxana, IL

Sample: MC35641-1 **Analyzed:** 09-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P57-40-120814

Wet Weight (Total)	28.507	g
Tare Weight	18.953	g
Dry Weight (Total)	27.785	g
Solids, Percent	92.4	%

Sample: MC35641-2 **Analyzed:** 09-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P57-50-120814

Wet Weight (Total)	35.212	g
Tare Weight	21.362	g
Dry Weight (Total)	33.986	g
Solids, Percent	91.1	%

Sample: MC35641-3 **Analyzed:** 09-DEC-14 by CF **Method:** SM 2540G-97 MOD
ClientID: P57-20-120814

Wet Weight (Total)	14.437	g
Tare Weight	1.319	g
Dry Weight (Total)	13.741	g
Solids, Percent	94.7	%

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 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36343

Sampling Date: 01/12/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 81

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 04, 2016

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

RE: SGS Accutest Job # MC36343

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: MC36343

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36343-1	01/12/15	10:00	DCDH	01/13/15	AQ	Equipment Blank	INITIAL-011215-EB
MC36343-2	01/12/15	10:55	DCDH	01/13/15	AQ	Ground Water	MW26-ROX-011215
MC36343-3	01/12/15	14:25	DCDH	01/13/15	AQ	Ground Water	MW1-ROX-011215
MC36343-3D	01/12/15	14:25	DCDH	01/13/15	AQ	Water Dup/MSD	MW1-ROX-011215
MC36343-3S	01/12/15	14:25	DCDH	01/13/15	AQ	Water Matrix Spike	MW1-ROX-011215
MC36343-4	01/12/15	15:45	DCDH	01/13/15	AQ	Ground Water	MW12-ROX-011215
MC36343-5	01/12/15	00:00	DCDH	01/13/15	AQ	Trip Blank Water	TB-011215-HCL
MC36343-6	01/12/15	00:00	DCDH	01/13/15	AQ	Trip Blank Water	TB-011215-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36343

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /4/20 6 : 2:07 A

4 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 2/20 5 and were rece ved at SGS Accutest New Eng and on 0 / 3/20 5 proper y preserved, at 0 7 Deg C and ntact These Samp es rece ved a job number of MC36343 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 8260C

Matrix: AQ **Batch ID:** MSN3476

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36343-3MS, MC36343-3MSD 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 Ch oromethane, Naphtha ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for Acetone, Bromomethane, Ch oromethane, Naphtha 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 Recove y(s) for Ch oromethane, Hexach orobutad ene, Naphtha ene, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for Bromomethane are outs de contro m ts for samp e MC36343-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Bromomethane, Carbon d su f de, Ch oromethane, , -D ch oroethene, V ny ch or de: 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
- MSN3476-BS, MC36343-3MS/MSD for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 632

- 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) MC36343-3MS, MC36343-3MSD were used as the QC samp es nd cated
- B ank Sp ke Recovery(s) for 4-N tropheno , Benzy A coho , Pyr d ne are outs de contro m ts
- OP4 632-MS/MSD for Benzy A coho , Pyr d ne: Outs de contro m ts
- Matr x Sp ke Dup cate Recove y(s) for 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
- RPD(s) for MSD for Pyr d ne are outs de contro m ts for samp e OP4 632-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 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 633

- 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) MC36343-3MS, MC36343-3MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job
- Samp e(s) MC36343-2, MC36343-3 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 725

- 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) MC36343-3MS, MC36343-3MSD 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

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(MC36343)

Summary of Hits

Job Number: MC36343
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/12/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36343-1	INITIAL-011215-EB					
Acetone		4.7 J	10	2.5	ug/l	SW846 8260C
MC36343-2	MW26-ROX-011215					
2-Methylnaphthalene		0.017 JB	2.1	0.011	ug/l	SW846 8270D BY SIM
Phenanthrene		0.015 J	0.052	0.011	ug/l	SW846 8270D BY SIM
MC36343-3	MW1-ROX-011215					
Acetone		35.0	10	2.5	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.84 J	1.0	0.22	ug/l	SW846 8260C
Acenaphthene		0.030 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.027 J	0.11	0.0088	ug/l	SW846 8270D BY SIM
Fluoranthene		0.017 J	0.11	0.0078	ug/l	SW846 8270D BY SIM
Fluorene		0.027 J	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.030 JB	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.036 JB	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.030 J	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36343-4	MW12-ROX-011215					
Di-n-butyl phthalate		0.23 J	5.6	0.19	ug/l	SW846 8270D
Fluoranthene		0.020 J	0.11	0.0082	ug/l	SW846 8270D BY SIM
Phenanthrene		0.018 J	0.056	0.012	ug/l	SW846 8270D BY SIM
MC36343-5	TB-011215-HCL					
No hits reported in this sample.						
MC36343-6	TB-011215-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94203.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	4.7	10	2.5	ug/l	J
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

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

(a) 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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19890.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.57	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.1	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.54	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.28	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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.31	ug/l	
78-59-1	Isophorone	ND	5.1	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.25	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	29%		15-110%
4165-62-2	Phenol-d5	21%		15-110%
118-79-6	2,4,6-Tribromophenol	48%		15-110%
4165-60-0	Nitrobenzene-d5	51%		30-130%
321-60-8	2-Fluorobiphenyl	44%		30-130%
1718-51-0	Terphenyl-d14	62%		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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93868.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0076	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0085	ug/l	
120-12-7	Anthracene	ND	0.10	0.0099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0075	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0086	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		30-130%
321-60-8	2-Fluorobiphenyl	43%		30-130%
1718-51-0	Terphenyl-d14	64%		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:	INITIAL-011215-EB		
Lab Sample ID:	MC36343-1	**Date Sampled:**	01/12/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/13/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61515.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		36-173%
460-00-4	Bromofluorobenzene (S)	126%		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:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94214.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	99%		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) 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:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19891.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	40%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	74%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	67%		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	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93869.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0087	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0076	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	0.017	2.1	0.011	ug/l	JB
85-01-8	Phenanthrene	0.015	0.052	0.011	ug/l	J
129-00-0	Pyrene	ND	0.10	0.0088	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	91%		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:	MW26-ROX-011215		
Lab Sample ID:	MC36343-2	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61516.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		36-173%
460-00-4	Bromofluorobenzene (S)	123%		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-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	35.0	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW1-ROX-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.84	1.0	0.22	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW1-ROX-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

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

(a) 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:	MW1-ROX-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19889.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	39%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	76%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

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

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Report of Analysis

Client Sample ID:	MW1-ROX-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93864.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.030	0.11	0.0079	ug/l	J
208-96-8	Acenaphthylene	0.027	0.11	0.0088	ug/l	J
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.017	0.11	0.0078	ug/l	J
86-73-7	Fluorene	0.027	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	0.030	2.1	0.013	ug/l	JB
91-57-6	2-Methylnaphthalene	0.036	2.1	0.012	ug/l	JB
85-01-8	Phenanthrene	0.030	0.053	0.011	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	56%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-011215		
Lab Sample ID:	MC36343-3	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61514.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		36-173%
460-00-4	Bromofluorobenzene (S)	114%		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:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94215.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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Report of Analysis

Client Sample ID:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

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

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

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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:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19892.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.23	5.6	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/l	

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Report of Analysis

Client Sample ID:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	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	75%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	92%		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:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93870.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0083	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0093	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	0.020	0.11	0.0082	ug/l	J
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.012	ug/l	
85-01-8	Phenanthrene	0.018	0.056	0.012	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	95%		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:	MW12-ROX-011215		
Lab Sample ID:	MC36343-4	**Date Sampled:**	01/12/15
Matrix:	AQ - Ground Water	**Date Received:**	01/13/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61517.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	127%		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

Report of Analysis

Client Sample ID:	TB-011215-HCL		
Lab Sample ID:	MC36343-5	**Date Sampled:**	01/12/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94204.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-011215-HCL		
Lab Sample ID:	MC36343-5	**Date Sampled:**	01/12/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011215-HCL		
Lab Sample ID:	MC36343-5	**Date Sampled:**	01/12/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/13/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

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

(a) 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-011215-ST		
Lab Sample ID:	MC36343-6	**Date Sampled:**	01/12/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/13/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61518.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	142%		36-173%
460-00-4	Bromofluorobenzene (S)	133%		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 (LO[illegible]N)

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

Lab Vendor #

Shell O[illegible] roducts 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) 9 7 2 1 6 6 4 0

SAP # 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1-12-2015

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 / 21563720.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com

SAMPLER NAME(S) (Print): DChase/DHaxel

LAB USE ONLY: mc 36343

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	INITIAL-011215-EB	1/12/15	1000	water	2			2	2	6	X	X	X	X	0.0	
-2	MW26-ROX-011215	↓	1055	↓	↓			↓	↓	6	X	X	X	X	↓	
-3	MW1-ROX-011215	↓	1425	↓	↓			↓	↓	6	X	X	X	X	↓	
-3S	MW1-ROX-011215-MS	↓	1425	↓	↓			↓	↓	6	X	X	X	X	↓	
-3SD	MW1-ROX-011215-MSD	↓	1425	↓	↓			↓	↓	6	X	X	X	X	↓	
-4	MW12-ROX-011215	↓	1545	↓	↓			↓	↓	6	X	X	X	X	↓	
-5	TB-011215-HCL	↓	0000	↓	↓			0	0	2	X				↓	17C, 1N2,
-6	TB-011215-ST	↓	0000	↓	0			2	0	2		X			↓	

DAC

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature] (DAC)	FED EX# 8045 7681 7470	1-12-2015	1800
FEDL	[signature]	1-13-15	

05/2/06 Revision

0.7°-1.9°C

5.1

5

MC36343: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36343 **Client:** URS **Project:** 900 SOUTH CENTRAL AVE

Date / Time Received: 1/13/2015 9 30 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 7/0 7) #2 (1 9/1 9)

Cooler Security	Y	or	N		Y	or	N
1 Custody Seals Present	☑		☐	3 COC Present	☑		☐
2 Custody Seals ntact	☑		☐	4 Smpl Dates/ ime OK	☑		☐

Cooler Temperature	Y	or	N
1 emp criteria achieved	☑		☐
2 hermometer D	G1		
3 Cooler media	ce (Bag)		
4 No Coolers	2		

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

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 H	☑		☐
2 All containers accounted or	☑		☐
3 Condition o sample	ntact		

Sample Integrity - Instructions	Y	or	N	N/A
1 Analysis requested is clear	☑		☐	
2 Bottles received or unspeci ied tests	☐		☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

MC36343: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36343

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36343-1 Collected: 12-JAN-15 10:00 By: DCDH Received: 13-JAN-15 By: INITIAL-011215-EB						
MC36343-1	SW846 8270D BY SIM	16-JAN-15 12:06	MR	14-JAN-15	AJ	B8270SIMSL
MC36343-1	SW846 8270D	16-JAN-15 19:50	KD	14-JAN-15	AJ	AB8270SL+
MC36343-1	SW846 8260C	20-JAN-15 10:51	JB			V8260SL+
MC36343-1	SW846 8011	20-JAN-15 15:06	NK	19-JAN-15	FT	V8011SL
MC36343-2 Collected: 12-JAN-15 10:55 By: DCDH Received: 13-JAN-15 By: MW26-ROX-011215						
MC36343-2	SW846 8270D BY SIM	16-JAN-15 12:30	MR	14-JAN-15	AJ	B8270SIMSL
MC36343-2	SW846 8270D	16-JAN-15 20:15	KD	14-JAN-15	AJ	AB8270SL+
MC36343-2	SW846 8011	20-JAN-15 15:29	NK	19-JAN-15	FT	V8011SL
MC36343-2	SW846 8260C	20-JAN-15 16:02	JB			V8260SL+
MC36343-3 Collected: 12-JAN-15 14:25 By: DCDH Received: 13-JAN-15 By: MW1-ROX-011215						
MC36343-3	SW846 8270D BY SIM	16-JAN-15 10:31	MR	14-JAN-15	AJ	B8270SIMSL
MC36343-3	SW846 8270D	16-JAN-15 19:26	KD	14-JAN-15	AJ	AB8270SL+
MC36343-3	SW846 8260C	20-JAN-15 13:42	JB			V8260SL+
MC36343-3	SW846 8011	20-JAN-15 14:44	NK	19-JAN-15	FT	V8011SL
MC36343-4 Collected: 12-JAN-15 15:45 By: DCDH Received: 13-JAN-15 By: MW12-ROX-011215						
MC36343-4	SW846 8270D BY SIM	16-JAN-15 12:53	MR	14-JAN-15	AJ	B8270SIMSL
MC36343-4	SW846 8270D	16-JAN-15 20:40	KD	14-JAN-15	AJ	AB8270SL+
MC36343-4	SW846 8011	20-JAN-15 15:52	NK	19-JAN-15	FT	V8011SL
MC36343-4	SW846 8260C	20-JAN-15 16:30	JB			V8260SL+
MC36343-5 Collected: 12-JAN-15 00:00 By: DCDH Received: 13-JAN-15 By: TB-011215-HCL						
MC36343-5	SW846 8260C	20-JAN-15 11:19	JB			V8260SL+
MC36343-6 Collected: 12-JAN-15 00:00 By: DCDH Received: 13-JAN-15 By: TB-011215-ST						

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36343

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36343-6	SW846 8011	20-JAN-15 16:14	NK	19-JAN-15	FT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/13/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36343-1.2	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-1.2	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-1.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-1.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-1.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-1.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-1.5	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-1.5	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-1.5	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-1.5	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36343-2.2	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-2.2	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-2.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-2.3	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-2.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-2.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-2.6	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-2.6	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-2.6	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-2.6	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-2.6	Scott Parsick		04/15/15 12:23	Disposed
MC36343-3.3	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-3.3	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-3.5	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-3.5	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-3.6	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-3.6	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-3.7	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-3.7	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-3.7	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-3.7	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-3.9	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-3.9	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/13/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36343-3.9	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-3.9	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-3.12	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-3.12	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-3.12	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-3.12	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-3.14	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-3.14	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-3.14	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-3.14	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-3.14	Scott Parsick		04/15/15 12:23	Disposed
MC36343-3.15	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-3.15	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-3.15	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-3.15	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-3.15	Scott Parsick		04/15/15 12:23	Disposed
MC36343-3.16	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-3.16	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-3.16	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-3.16	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-3.16	Scott Parsick		04/15/15 12:23	Disposed
MC36343-3.18	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-3.18	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-3.18	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-3.18	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-3.18	Scott Parsick		04/15/15 12:23	Disposed
MC36343-4.1	Walk In Ref #22	Alireza Zeighami	01/14/15 07:20	Retrieve from Storage
MC36343-4.1	Alireza Zeighami		01/16/15 14:51	Depleted
MC36343-4.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-4.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-4.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-4.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36343-4.5	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-4.5	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-4.5	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-4.5	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/13/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36343-4.5	Scott Parsick		04/15/15 12:23	Disposed
MC36343-5.1	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36343-5.1	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36343-5.1	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36343-5.1	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36343-5.1	Scott Parsick		04/15/15 12:23	Disposed
MC36343-6.2	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36343-6.2	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36343-6.2	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36343-6.2	Marc Tahtamoni		02/12/15 20:37	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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	0.50	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

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

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	47.9	96	70-130
107-02-8	Acrolein	250	248	99	70-130
107-13-1	Acrylonitrile	50	48.4	97	70-130
71-43-2	Benzene	50	48.6	97	70-130
108-86-1	Bromobenzene	50	51.1	102	70-130
74-97-5	Bromochloromethane	50	52.7	105	70-130
75-27-4	Bromodichloromethane	50	55.5	111	70-130
75-25-2	Bromoform	50	56.9	114	70-130
74-83-9	Bromomethane	50	40.5	81	70-130
78-93-3	2-Butanone (MEK)	50	54.7	109	70-130
104-51-8	n-Butylbenzene	50	58.3	117	70-130
135-98-8	sec-Butylbenzene	50	49.1	98	70-130
98-06-6	tert-Butylbenzene	50	47.8	96	70-130
75-15-0	Carbon disulfide	50	38.3	77	70-130
56-23-5	Carbon tetrachloride	50	53.1	106	70-130
108-90-7	Chlorobenzene	50	49.8	100	70-130
75-00-3	Chloroethane	50	45.3	91	70-130
110-75-8	2-Chloroethyl vinyl ether	50	51.3	103	70-130
67-66-3	Chloroform	50	51.1	102	70-130
74-87-3	Chloromethane	50	34.0	68* [a]	70-130
95-49-8	o-Chlorotoluene	50	47.6	95	70-130
106-43-4	p-Chlorotoluene	50	48.9	98	70-130
124-48-1	Dibromochloromethane	50	52.5	105	70-130
95-50-1	1,2-Dichlorobenzene	50	53.3	107	70-130
541-73-1	1,3-Dichlorobenzene	50	51.3	103	70-130
106-46-7	1,4-Dichlorobenzene	50	51.9	104	70-130
75-71-8	Dichlorodifluoromethane	50	44.0	88	70-130
75-34-3	1,1-Dichloroethane	50	45.7	91	70-130
107-06-2	1,2-Dichloroethane	50	50.6	101	70-130
75-35-4	1,1-Dichloroethene	50	42.0	84	70-130
156-59-2	cis-1,2-Dichloroethene	50	49.7	99	70-130
156-60-5	trans-1,2-Dichloroethene	50	47.1	94	70-130
78-87-5	1,2-Dichloropropane	50	51.3	103	70-130
142-28-9	1,3-Dichloropropane	50	55.8	112	70-130
594-20-7	2,2-Dichloropropane	50	52.5	105	70-130
563-58-6	1,1-Dichloropropene	50	45.7	91	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	62.2	124	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	70-130
123-91-1	1,4-Dioxane	250	265	106	70-130
97-63-2	Ethyl methacrylate	50	64.9	130	77-137
100-41-4	Ethylbenzene	50	51.2	102	70-130
87-68-3	Hexachlorobutadiene	50	64.8	130	70-130
591-78-6	2-Hexanone	50	51.1	102	70-130
98-82-8	Isopropylbenzene	50	47.8	96	70-130
99-87-6	p-Isopropyltoluene	50	53.2	106	70-130
1634-04-4	Methyl Tert Butyl Ether	50	58.6	117	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	60.4	121	70-130
74-95-3	Methylene bromide	50	53.9	108	70-130
75-09-2	Methylene chloride	50	47.1	94	70-130
91-20-3	Naphthalene	50	66.0	132* [a]	70-130
103-65-1	n-Propylbenzene	50	47.7	95	70-130
100-42-5	Styrene	50	57.0	114	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	57.6	115	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	60.4	121	70-130
127-18-4	Tetrachloroethene	50	50.8	102	70-130
108-88-3	Toluene	50	52.0	104	70-130
87-61-6	1,2,3-Trichlorobenzene	50	61.3	123	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	70-130
71-55-6	1,1,1-Trichloroethane	50	50.4	101	70-130
79-00-5	1,1,2-Trichloroethane	50	57.6	115	70-130
79-01-6	Trichloroethene	50	52.5	105	70-130
75-69-4	Trichlorofluoromethane	50	49.4	99	70-130
96-18-4	1,2,3-Trichloropropane	50	61.6	123	70-130
95-63-6	1,2,4-Trimethylbenzene	50	50.0	100	70-130
108-67-8	1,3,5-Trimethylbenzene	50	52.2	104	70-130
108-05-4	Vinyl Acetate	50	110	220* [b]	70-130
75-01-4	Vinyl chloride	50	38.2	76	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	51.7	103	70-130
1330-20-7	Xylene (total)	150	154	103	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	MC36343-3 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	35.0		50	66.2	62* [a]	50	72.0	74	8	70-130/30
107-02-8	Acrolein	ND		250	227	91	250	249	100	9	70-130/30
107-13-1	Acrylonitrile	ND		50	48.9	98	50	52.7	105	7	70-130/30
71-43-2	Benzene	ND		50	47.1	94	50	48.3	97	3	70-130/30
108-86-1	Bromobenzene	ND		50	48.3	97	50	50.8	102	5	70-130/30
74-97-5	Bromochloromethane	ND		50	51.3	103	50	52.3	105	2	70-130/30
75-27-4	Bromodichloromethane	ND		50	53.4	107	50	54.6	109	2	70-130/30
75-25-2	Bromoform	ND		50	52.4	105	50	55.8	112	6	70-130/30
74-83-9	Bromomethane	ND		50	21.7	43* [a]	50	35.0	70	47* [b]	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	40.9	82	50	44.1	88	8	70-130/30
104-51-8	n-Butylbenzene	ND		50	55.0	110	50	57.7	115	5	70-130/30
135-98-8	sec-Butylbenzene	ND		50	46.6	93	50	48.6	97	4	70-130/30
98-06-6	tert-Butylbenzene	ND		50	45.1	90	50	47.8	96	6	70-130/30
75-15-0	Carbon disulfide	ND		50	39.3	79	50	38.9	78	1	70-130/30
56-23-5	Carbon tetrachloride	ND		50	51.7	103	50	52.9	106	2	70-130/30
108-90-7	Chlorobenzene	ND		50	48.1	96	50	49.9	100	4	70-130/30
75-00-3	Chloroethane	ND		50	41.9	84	50	42.3	85	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	49.7	99	50	50.6	101	2	70-130/30
67-66-3	Chloroform	ND		50	50.7	101	50	51.6	103	2	70-130/30
74-87-3	Chloromethane	ND		50	25.6	51* [a]	50	30.1	60* [a]	16	70-130/30
95-49-8	o-Chlorotoluene	ND		50	45.3	91	50	47.3	95	4	70-130/30
106-43-4	p-Chlorotoluene	ND		50	46.5	93	50	49.0	98	5	70-130/30
124-48-1	Dibromochloromethane	ND		50	50.5	101	50	52.1	104	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	50.7	101	50	53.0	106	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	48.2	96	50	51.0	102	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	48.9	98	50	52.0	104	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	41.9	84	50	43.7	87	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	45.2	90	50	45.4	91	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	48.3	97	50	50.0	100	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	41.7	83	50	42.5	85	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	49.6	99	50	49.9	100	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	46.5	93	50	46.8	94	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	49.7	99	50	50.6	101	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	53.2	106	50	55.3	111	4	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	51.5	103	50	51.2	102	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	43.9	88	50	45.0	90	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Compound	MC36343-3 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		50	59.3	119	50	60.9	122	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	50.4	101	50	51.4	103	2	70-130/30
123-91-1	1,4-Dioxane	ND		250	251	100	250	281	112	11	70-130/30
97-63-2	Ethyl methacrylate	ND		50	61.7	123	50	66.1	132	7	72-139/30
100-41-4	Ethylbenzene	ND		50	50.1	100	50	51.4	103	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	60.1	120	50	65.4	131* [a]	8	70-130/30
591-78-6	2-Hexanone	ND		50	41.2	82	50	45.6	91	10	70-130/30
98-82-8	Isopropylbenzene	ND		50	45.4	91	50	47.7	95	5	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	50.7	101	50	53.6	107	6	70-130/30
1634-04-4	Methyl Tert Butyl Ether	0.84	J	50	54.5	107	50	55.7	110	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	55.5	111	50	61.2	122	10	70-130/30
74-95-3	Methylene bromide	ND		50	49.8	100	50	51.9	104	4	70-130/30
75-09-2	Methylene chloride	ND		50	46.9	94	50	46.8	94	0	70-130/30
91-20-3	Naphthalene	ND		50	66.9	134* [a]	50	67.6	135* [a]	1	70-130/30
103-65-1	n-Propylbenzene	ND		50	45.5	91	50	47.9	96	5	70-130/30
100-42-5	Styrene	ND		50	55.2	110	50	57.4	115	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	55.9	112	50	57.2	114	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.0	110	50	60.8	122	10	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.4	99	50	50.9	102	3	70-130/30
108-88-3	Toluene	ND		50	50.7	101	50	51.6	103	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	64.1	128	50	63.3	127	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	55.9	112	50	57.6	115	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	50.6	101	50	50.9	102	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	55.1	110	50	57.4	115	4	70-130/30
79-01-6	Trichloroethene	ND		50	50.3	101	50	51.4	103	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	53.9	108	50	54.4	109	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	55.8	112	50	61.7	123	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	48.0	96	50	50.3	101	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	49.1	98	50	51.8	104	5	70-130/30
108-05-4	Vinyl Acetate	ND		50	111	222* [c]	50	116	232* [c]	4	70-130/30
75-01-4	Vinyl chloride	ND		50	37.1	74	50	39.3	79	6	70-130/30
	m,p-Xylene	ND		100	101	101	100	105	105	4	70-130/30
95-47-6	o-Xylene	ND		50	50.9	102	50	52.3	105	3	70-130/30
1330-20-7	Xylene (total)	ND		150	152	101	150	157	105	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-5

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
1868-53-7	Dibromofluoromethane	103%	101%	100%	70-130%
2037-26-5	Toluene-D8	100%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	90%	91%	97%	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.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3476-CC3452	**Injection Date:**	01/20/15
Lab File ID:	N94198.D	**Injection Time:**	08:30
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	323007	9.11	474425	9.98	241145	13.23	216158	15.79	121352	6.71
Upper Limit [a]	646014	9.61	948850	10.48	482290	13.73	432316	16.29	242704	7.21
Lower Limit [b]	161504	8.61	237213	9.48	120573	12.73	108079	15.29	60676	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3476-BS	327434	9.11	480596	9.98	245246	13.23	219749	15.79	119370	6.71
MSN3476-MB	325574	9.11	475516	9.98	226873	13.23	188280	15.79	123862	6.74
MC36343-1	328136	9.12	481878	9.99	228250	13.24	192188	15.79	118548	6.74
MC36343-5	328544	9.12	489837	9.98	228614	13.23	183630	15.79	86941	6.75
ZZZZZZ	324213	9.12	484583	9.98	234702	13.23	194137	15.79	122028	6.74
ZZZZZZ	321313	9.12	479577	9.98	230605	13.23	178792	15.79	89366	6.76
ZZZZZZ	324872	9.11	477495	9.98	228945	13.24	194609	15.79	115081	6.73
ZZZZZZ	325849	9.12	483387	9.98	228674	13.23	178890	15.79	91098	6.75
MC36343-3	323315	9.12	481727	9.98	231426	13.24	191033	15.79	96501	6.74
ZZZZZZ	319362	9.12	469774	9.98	225575	13.23	188938	15.79	99322	6.75
MC36343-3MS	322919	9.12	485105	9.98	247193	13.23	226014	15.79	100973	6.71
MC36343-3MSD	323603	9.11	478574	9.98	244251	13.23	218337	15.79	113977	6.71
ZZZZZZ	321334	9.12	468805	9.98	223839	13.23	193425	15.79	101831	6.74
MC36343-2	320144	9.11	476660	9.98	228676	13.23	194556	15.79	112874	6.74
MC36343-4	321898	9.11	471811	9.98	225888	13.24	188299	15.79	94721	6.74
ZZZZZZ	322267	9.12	479091	9.98	232487	13.24	195818	15.79	118396	6.73
ZZZZZZ	319967	9.12	480367	9.98	231902	13.24	197258	15.79	109522	6.74
ZZZZZZ	317651	9.12	476558	9.98	227662	13.24	196013	15.79	124779	6.74
ZZZZZZ	319460	9.12	468100	9.98	223586	13.23	191028	15.79	109997	6.73
ZZZZZZ	319185	9.12	476569	9.99	227378	13.24	187906	15.79	122215	6.74
ZZZZZZ	318287	9.12	480208	9.98	231429	13.24	196824	15.79	116731	6.72
ZZZZZZ	314269	9.12	465548	9.98	222719	13.24	194571	15.79	112307	6.73

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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36343-1	N94203.D	99	100	97
MC36343-2	N94214.D	100	99	96
MC36343-3	N94209.D	100	99	97
MC36343-4	N94215.D	98	100	97
MC36343-5	N94204.D	100	98	101
MC36343-3MS	N94211.D	103	100	90
MC36343-3MSD	N94212.D	101	98	91
MSN3476-BS	N94199.D	101	101	92
MSN3476-MB	N94202.D	99	100	98

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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MB	W19875.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MB	W19875.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	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	83%	15-110%
4165-60-0	Nitrobenzene-d5	68%	30-130%
321-60-8	2-Fluorobiphenyl	58%	30-130%
1718-51-0	Terphenyl-d14	99%	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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-MB	I93860.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	0.017	2.0	0.012	ug/l	J
91-57-6	2-Methylnaphthalene	0.020	2.0	0.011	ug/l	J
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	15-110%
4165-60-0	Nitrobenzene-d5	68%	30-130%
321-60-8	2-Fluorobiphenyl	55%	30-130%
1718-51-0	Terphenyl-d14	101%	30-130%

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-BS	W19886.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	20.5	41	30-130
95-57-8	2-Chlorophenol	50	35.1	70	30-130
59-50-7	4-Chloro-3-methyl phenol	50	37.1	74	30-130
120-83-2	2,4-Dichlorophenol	50	38.7	77	30-130
105-67-9	2,4-Dimethylphenol	50	34.2	68	30-130
51-28-5	2,4-Dinitrophenol	50	39.6	79	30-130
534-52-1	4,6-Dinitro-o-cresol	50	44.7	89	30-130
95-48-7	2-Methylphenol	50	31.8	64	30-130
	3&4-Methylphenol	100	60.2	60	30-130
88-75-5	2-Nitrophenol	50	38.1	76	30-130
100-02-7	4-Nitrophenol	50	13.2	26* [a]	30-130
87-86-5	Pentachlorophenol	50	38.4	77	30-130
108-95-2	Phenol	50	16.9	34	30-130
95-95-4	2,4,5-Trichlorophenol	50	48.5	97	30-130
88-06-2	2,4,6-Trichlorophenol	50	35.2	70	30-130
62-53-3	Aniline	50	28.7	57	40-140
101-55-3	4-Bromophenyl phenyl ether	50	41.3	83	40-140
85-68-7	Butyl benzyl phthalate	50	42.6	85	40-140
100-51-6	Benzyl Alcohol	50	18.9	38* [a]	40-140
91-58-7	2-Chloronaphthalene	50	41.2	82	40-140
106-47-8	4-Chloroaniline	50	38.0	76	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	39.7	79	40-140
111-44-4	bis(2-Chloroethyl)ether	50	36.8	74	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	42.3	85	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	42.6	85	40-140
122-66-7	1,2-Diphenylhydrazine	50	40.8	82	40-140
121-14-2	2,4-Dinitrotoluene	50	43.0	86	40-140
606-20-2	2,6-Dinitrotoluene	50	40.4	81	40-140
91-94-1	3,3'-Dichlorobenzidine	50	43.1	86	40-140
132-64-9	Dibenzofuran	50	42.4	85	40-140
84-74-2	Di-n-butyl phthalate	50	41.6	83	40-140
117-84-0	Di-n-octyl phthalate	50	43.0	86	40-140
84-66-2	Diethyl phthalate	50	42.9	86	40-140
131-11-3	Dimethyl phthalate	50	42.1	84	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	43.5	87	40-140
118-74-1	Hexachlorobenzene	50	39.0	78	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-BS	W19886.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	20.4	41	40-140
67-72-1	Hexachloroethane	50	25.6	51	40-140
78-59-1	Isophorone	50	36.4	73	40-140
88-74-4	2-Nitroaniline	50	43.8	88	40-140
99-09-2	3-Nitroaniline	50	39.4	79	40-140
100-01-6	4-Nitroaniline	50	41.5	83	40-140
98-95-3	Nitrobenzene	50	37.8	76	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	40.9	82	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.1	76	40-140
110-86-1	Pyridine	50	15.6	31* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	75%	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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-BS	I93861.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	37.1	74	45-120
208-96-8	Acenaphthylene	50	38.8	78	31-120
120-12-7	Anthracene	50	37.5	75	51-120
56-55-3	Benzo(a)anthracene	50	43.8	88	46-139
50-32-8	Benzo(a)pyrene	50	44.4	89	39-125
205-99-2	Benzo(b)fluoranthene	50	43.4	87	41-137
191-24-2	Benzo(g,h,i)perylene	50	42.6	85	47-132
207-08-9	Benzo(k)fluoranthene	50	38.5	77	46-131
218-01-9	Chrysene	50	40.5	81	43-129
53-70-3	Dibenzo(a,h)anthracene	50	41.8	84	42-138
206-44-0	Fluoranthene	50	41.8	84	47-134
86-73-7	Fluorene	50	38.2	76	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.8	86	41-137
90-12-0	1-Methylnaphthalene	50	33.1	66	39-120
91-57-6	2-Methylnaphthalene	50	33.9	68	22-126
85-01-8	Phenanthrene	50	36.4	73	51-120
129-00-0	Pyrene	50	42.7	85	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	45%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	95%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MS	W19887.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
OP41632-MSD	W19888.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
MC36343-3	W19889.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	MC36343-3 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		52.6	23.1	44	53.2	22.1	42	4	30-130/20
95-57-8	2-Chlorophenol	ND		52.6	35.9	68	53.2	32.5	61	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		52.6	40.6	77	53.2	38.1	72	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		52.6	38.9	74	53.2	35.5	67	9	30-130/20
105-67-9	2,4-Dimethylphenol	ND		52.6	36.9	70	53.2	36.1	68	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		52.6	44.8	85	53.2	43.3	81	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		52.6	48.3	92	53.2	45.0	85	7	30-130/20
95-48-7	2-Methylphenol	ND		52.6	35.8	68	53.2	32.4	61	10	30-130/20
	3&4-Methylphenol	ND		105	65.2	62	106	61.6	58	6	30-130/20
88-75-5	2-Nitrophenol	ND		52.6	40.3	77	53.2	36.5	69	10	30-130/20
100-02-7	4-Nitrophenol	ND		52.6	19.2	36	53.2	20.1	38	5	30-130/20
87-86-5	Pentachlorophenol	ND		52.6	45.4	86	53.2	44.2	83	3	30-130/20
108-95-2	Phenol	ND		52.6	17.2	33	53.2	16.2	30	6	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		52.6	52.0	99	53.2	50.2	94	4	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		52.6	35.7	68	53.2	32.2	61	10	30-130/20
62-53-3	Aniline	ND		52.6	28.2	54	53.2	24.5	46	14	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		52.6	43.2	82	53.2	40.6	76	6	40-140/20
85-68-7	Butyl benzyl phthalate	ND		52.6	43.0	82	53.2	41.5	78	4	40-140/20
100-51-6	Benzyl Alcohol	ND		52.6	20.1	38* [a]	53.2	17.1	32* [a]	16	40-140/20
91-58-7	2-Chloronaphthalene	ND		52.6	42.4	81	53.2	38.6	73	9	40-140/20
106-47-8	4-Chloroaniline	ND		52.6	36.1	69	53.2	32.9	62	9	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		52.6	39.7	75	53.2	36.1	68	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		52.6	37.3	71	53.2	33.7	63	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		52.6	43.9	83	53.2	40.6	76	8	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		52.6	43.0	82	53.2	39.1	74	10	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		52.6	42.2	80	53.2	40.0	75	5	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		52.6	42.6	81	53.2	40.6	76	5	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		52.6	41.6	79	53.2	38.2	72	9	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		52.6	29.0	55	53.2	25.9	49	11	40-140/20
132-64-9	Dibenzofuran	ND		52.6	42.2	80	53.2	39.0	73	8	40-140/20
84-74-2	Di-n-butyl phthalate	ND		52.6	41.9	80	53.2	40.4	76	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		52.6	43.5	83	53.2	41.3	78	5	40-140/20
84-66-2	Diethyl phthalate	ND		52.6	42.9	82	53.2	40.2	76	6	40-140/20
131-11-3	Dimethyl phthalate	ND		52.6	42.7	81	53.2	39.8	75	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		52.6	43.3	82	53.2	42.3	80	2	40-140/20
118-74-1	Hexachlorobenzene	ND		52.6	41.4	79	53.2	38.5	72	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MS	W19887.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
OP41632-MSD	W19888.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
MC36343-3	W19889.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	MC36343-3 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		52.6	22.9	44	53.2	21.0	39* [b]	9	40-140/20
67-72-1	Hexachloroethane	ND		52.6	36.0	68	53.2	33.3	63	8	40-140/20
78-59-1	Isophorone	ND		52.6	36.0	68	53.2	33.6	63	7	40-140/20
88-74-4	2-Nitroaniline	ND		52.6	45.2	86	53.2	41.7	78	8	40-140/20
99-09-2	3-Nitroaniline	ND		52.6	41.9	80	53.2	37.8	71	10	40-140/20
100-01-6	4-Nitroaniline	ND		52.6	41.8	79	53.2	39.0	73	7	40-140/20
98-95-3	Nitrobenzene	ND		52.6	37.0	70	53.2	35.3	66	5	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		52.6	30.2	57	53.2	28.2	53	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		52.6	41.3	78	53.2	37.7	71	9	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		52.6	40.0	76	53.2	37.8	71	6	40-140/20
110-86-1	Pyridine	ND		52.6	19.0	36* [a]	53.2	13.0	24* [a]	38* [c]	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
367-12-4	2-Fluorophenol	42%	37%	39%	15-110%
4165-62-2	Phenol-d5	31%	28%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	67%	76%	15-110%
4165-60-0	Nitrobenzene-d5	73%	66%	68%	30-130%
321-60-8	2-Fluorobiphenyl	64%	58%	58%	30-130%
1718-51-0	Terphenyl-d14	85%	82%	88%	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.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-MS	I93862.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
OP41633-MSD	I93863.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
MC36343-3	I93864.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4

CAS No.	Compound	MC36343-3 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	0.030	J	52.6	37.8	72	53.2	35.1	66	7	41-120/20
208-96-8	Acenaphthylene	0.027	J	52.6	39.6	75	53.2	36.7	69	8	30-120/20
120-12-7	Anthracene	ND		52.6	38.1	72	53.2	36.7	69	4	47-120/20
56-55-3	Benzo(a)anthracene	ND		52.6	44.3	84	53.2	42.2	79	5	36-139/20
50-32-8	Benzo(a)pyrene	ND		52.6	44.3	84	53.2	41.3	78	7	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		52.6	41.7	79	53.2	40.9	77	2	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		52.6	42.4	81	53.2	40.5	76	5	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		52.6	40.3	77	53.2	36.9	69	9	34-133/20
218-01-9	Chrysene	ND		52.6	40.7	77	53.2	38.8	73	5	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		52.6	41.4	79	53.2	39.5	74	5	29-140/20
206-44-0	Fluoranthene	0.017	J	52.6	41.7	79	53.2	40.1	75	4	42-132/20
86-73-7	Fluorene	0.027	J	52.6	38.7	73	53.2	35.8	67	8	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		52.6	42.8	81	53.2	40.5	76	6	28-139/20
90-12-0	1-Methylnaphthalene	0.030	JB	52.6	34.9	66	53.2	32.9	62	6	33-120/20
91-57-6	2-Methylnaphthalene	0.036	JB	52.6	36.3	69	53.2	33.7	63	7	20-125/20
85-01-8	Phenanthrene	0.030	J	52.6	37.1	70	53.2	35.2	66	5	47-120/20
129-00-0	Pyrene	ND		52.6	42.9	82	53.2	41.0	77	5	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
367-12-4	2-Fluorophenol	42%	40%		15-110%
4165-62-2	Phenol-d5	31%	29%		15-110%
118-79-6	2,4,6-Tribromophenol	86%	82%		15-110%
4165-60-0	Nitrobenzene-d5	71%	66%	66%	30-130%
321-60-8	2-Fluorobiphenyl	59%	55%	56%	30-130%
1718-51-0	Terphenyl-d14	88%	83%	89%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3501-CC3483	**Injection Date:**	01/16/15
Lab File ID:	I93859.D	**Injection Time:**	08:34
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	263663	3.67	522211	4.71	302693	6.22	539993	7.54	390466	10.31	994914	11.75
Upper Limit [a]	527326	4.17	1044422	5.21	605386	6.72	1079986	8.04	780932	10.81	1989828	12.25
Lower Limit [b]	131832	3.17	261106	4.21	151347	5.72	269997	7.04	195233	9.81	497457	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
OP41633-MB	274339	3.67	547192	4.71	314521	6.22	543041	7.54	395087	10.31	988293	11.75
OP41633-BS	293753	3.67	584212	4.71	326152	6.23	582514	7.55	406408	10.31	986175	11.75
OP41633-MS	299352	3.67	597017	4.71	333855	6.23	593246	7.55	418004	10.31	1017534	11.75
OP41633-MSD	289264	3.67	579588	4.71	324783	6.23	572886	7.55	402286	10.31	988561	11.75
MC36343-3	268475	3.67	534276	4.71	305983	6.22	533826	7.54	386956	10.31	985730	11.75
ZZZZZZ	279571	3.67	559881	4.71	323589	6.23	554852	7.54	401413	10.31	1015733	11.75
ZZZZZZ	273656	3.67	547681	4.71	316443	6.22	553546	7.54	408189	10.31	1040803	11.75
ZZZZZZ	272836	3.67	547097	4.71	310661	6.22	531476	7.54	380431	10.31	951664	11.75
MC36343-1	270679	3.67	538606	4.71	311957	6.22	545685	7.54	395944	10.31	998101	11.75
MC36343-2	301176	3.67	599285	4.71	340856	6.22	589101	7.55	421747	10.31	1043231	11.75
MC36343-4	284209	3.67	567648	4.70	332899	6.22	580066	7.54	418904	10.31	1043173	11.75
ZZZZZZ	283265	3.67	567459	4.70	328037	6.22	570832	7.54	413758	10.31	1041237	11.75
ZZZZZZ	290159	3.67	583492	4.71	337817	6.22	592317	7.54	420279	10.31	1057719	11.75
ZZZZZZ	289392	3.67	579432	4.71	334225	6.22	578271	7.55	415280	10.31	1040257	11.75
ZZZZZZ	288613	3.67	578599	4.71	333644	6.22	584924	7.54	420314	10.31	1057587	11.75
ZZZZZZ	259090	3.67	517095	4.70	295765	6.22	522305	7.54	376638	10.31	961669	11.75
ZZZZZZ	276221	3.67	550751	4.70	315667	6.22	548681	7.54	391044	10.31	980180	11.75

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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW868-CC868	**Injection Date:**	01/16/15
Lab File ID:	W19871.D	**Injection Time:**	10:02
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	159348	4.63	531767	5.74	342744	7.28	574859	8.55	619093	10.96	582835	12.54
Upper Limit [a]	318696	5.13	1063534	6.24	685488	7.78	1149718	9.05	1238186	11.46	1165670	13.04
Lower Limit [b]	79674	4.13	265884	5.24	171372	6.78	287430	8.05	309547	10.46	291418	12.04

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
OP41262-MSD2	181237	4.64	615837	5.74	385441	7.28	651467	8.55	678100	10.97	647974	12.55
OP41262-MSD1	181237	4.64	615837	5.74	385441	7.28	651467	8.55	678100	10.97	647974	12.55
MC35829-2T	184965	4.63	624479	5.74	394958	7.27	660138	8.55	685066	10.96	649539	12.54
MC36225-9	184965	4.63	624479	5.74	394958	7.27	660138	8.55	685066	10.96	649539	12.54
ZZZZZZ	199388	4.63	672074	5.74	418976	7.27	682308	8.55	681686	10.96	617268	12.54
OP41632-MB	173298	4.63	587181	5.74	367400	7.28	608188	8.55	631260	10.96	601190	12.54
OP41262-MB	182045	4.63	599905	5.74	388327	7.27	649385	8.55	690800	10.96	629144	12.54
OP41262-BS	212868	4.63	706187	5.74	436490	7.28	717702	8.55	732263	10.96	674914	12.54
OP41262-MS2	206199	4.63	703485	5.74	444823	7.28	737142	8.55	764880	10.96	703286	12.54
OP41262-MS1	206199	4.63	703485	5.74	444823	7.28	737142	8.55	764880	10.96	703286	12.54
OP41182-MB	201743	4.63	687973	5.74	440173	7.27	718049	8.55	715110	10.96	657348	12.54
OP41182-BS	209003	4.63	705039	5.74	444805	7.28	728646	8.55	735033	10.96	649612	12.54
OP41182-MS1	209914	4.63	699049	5.74	436271	7.28	706482	8.55	709118	10.96	648991	12.54
OP41182-MSD1	206553	4.63	696054	5.74	424603	7.28	696149	8.55	716043	10.96	636775	12.54
MC36225-8	205947	4.63	685303	5.74	430884	7.27	704186	8.55	715515	10.95	635776	12.54
ZZZZZZ	197623	4.63	664450	5.74	422582	7.27	693775	8.55	702151	10.96	641283	12.54
ZZZZZZ	189551	4.63	635191	5.74	403722	7.27	657769	8.54	664604	10.96	590871	12.54
OP41632-BS	176145	4.63	584441	5.74	356142	7.27	596239	8.55	612779	10.96	569745	12.54
OP41632-MS	192050	4.63	656458	5.74	395873	7.28	646339	8.55	663225	10.96	615817	12.54
OP41632-MSD	189723	4.63	632843	5.74	389213	7.27	627245	8.55	639514	10.96	604755	12.54
MC36343-3	184231	4.63	603963	5.74	385356	7.27	624540	8.54	635735	10.96	599996	12.54
MC36343-1	184844	4.63	620546	5.74	391753	7.27	629700	8.54	650916	10.95	611581	12.54
MC36343-2	190152	4.63	634943	5.74	398460	7.27	663352	8.54	686265	10.95	645727	12.54
MC36343-4	179479	4.63	614173	5.74	391709	7.27	633026	8.54	651809	10.95	603784	12.54
ZZZZZZ	189387	4.63	618798	5.74	383987	7.27	629387	8.54	652940	10.95	623818	12.54
ZZZZZZ	194521	4.63	660927	5.74	410391	7.27	691337	8.54	707937	10.96	658747	12.54

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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW868-CC868	**Injection Date:**	01/16/15
Lab File ID:	W19871.D	**Injection Time:**	10:02
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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 Surrogate Recovery Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36343-1	W19890.D	29	21	48	51	44	62
MC36343-2	W19891.D	40	27	74	68	67	87
MC36343-3	W19889.D	39	29	76	68	58	88
MC36343-4	W19892.D	41	30	80	75	76	92
OP41632-BS	W19886.D	44	32	74	77	75	92
OP41632-MB	W19875.D	40	29	83	68	58	99
OP41632-MS	W19887.D	42	31	78	73	64	85
OP41632-MSD	W19888.D	37	28	67	66	58	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%

Semivolatile Surrogate Recovery Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36343-1	I93868.D	53	43	64
MC36343-2	I93869.D	69	63	91
MC36343-3	I93864.D	66	56	89
MC36343-4	I93870.D	74	70	95
OP41633-BS	I93861.D	77	70	95
OP41633-MB	I93860.D	68	55	101
OP41633-MS	I93862.D	71	59	88
OP41633-MSD	I93863.D	66	55	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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MB	BB61510.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

Blank Spike Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-BS	BB61511.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.059	83	60-140
106-93-4	1,2-Dibromoethane	0.071	0.056	79	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	110%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MS	BB61512.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
OP41725-MSD	BB61513.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
MC36343-3	BB61514.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36343-1, MC36343-2, MC36343-3, MC36343-4, MC36343-6

CAS No.	Compound	MC36343-3 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		0.0682	0.081	119	0.0689	0.077	112	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0682	0.065	95	0.0689	0.063	91	3	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
460-00-4	Bromofluorobenzene (S)	139%	119%	124%	36-173%
460-00-4	Bromofluorobenzene (S)	126%	106%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36343-1	BB61515.D	124	126
MC36343-2	BB61516.D	124	123
MC36343-3	BB61514.D	124	114
MC36343-4	BB61517.D	127	129
MC36343-6	BB61518.D	142	133
OP41725-BS	BB61511.D	118	110
OP41725-MB	BB61510.D	109	103
OP41725-MS	BB61512.D	139	126
OP41725-MSD	BB61513.D	119	106

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: MC36343
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-ICC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61506.D	**Injection Time:**	11:18
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41725-MB	BB61510.D	01/20/15	13:15	4.81	4.93
OP41725-BS	BB61511.D	01/20/15	13:37	4.81	4.93
OP41725-MS	BB61512.D	01/20/15	13:59	4.81	4.93
OP41725-MSD	BB61513.D	01/20/15	14:22	4.81	4.93
MC36343-3	BB61514.D	01/20/15	14:44	4.81	4.93
MC36343-1	BB61515.D	01/20/15	15:06	4.81	4.93
MC36343-2	BB61516.D	01/20/15	15:29	4.81	4.93
MC36343-4	BB61517.D	01/20/15	15:52	4.81	4.93
MC36343-6	BB61518.D	01/20/15	16:14	4.81	4.93
ZZZZZZ	BB61519.D	01/20/15	16:36	4.81	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36376

Sampling Date: 01/13/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 98

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 03, 2016

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

RE: SGS Accutest Job # MC36376

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: MC36376

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC36376-1	01/13/15	09:15	DCDH	01/14/15	AQ	Equipment Blank	MW11-ROX-011315-EB
MC36376-2	01/13/15	10:00	DCDH	01/14/15	AQ	Ground Water	MW11-ROX-011315
MC36376-3	01/13/15	11:15	DCDH	01/14/15	AQ	Ground Water	MW10-ROX-011315
MC36376-4	01/13/15	13:20	DCDH	01/14/15	AQ	Ground Water	MW9-ROX-011315
MC36376-5	01/13/15	14:30	DCDH	01/14/15	AQ	Ground Water	MW16-ROX-011315
MC36376-6	01/13/15	15:25	DCDH	01/14/15	AQ	Ground Water	MW24-ROX-011315
MC36376-7	01/13/15	00:00	DCDH	01/14/15	AQ	Trip Blank Water	TB-ROX-011315-HCL
MC36376-8	01/13/15	00:00	DCDH	01/14/15	AQ	Trip Blank Water	TB-ROX-011315-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36376

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 2:25:20 PM

6 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 3/20 5 and were rece ved at SGS Accutest New Eng and on 0 / 4/20 5 proper y preserved, at 2 Deg C and ntact These Samp es rece ved a job number of MC36376 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 8260C

Matrix: AQ **Batch ID:** MSN3476

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36343-3MS, MC36343-3MSD 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 Ch oromethane, Naphtha ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for Acetone, Bromomethane, Ch oromethane, Naphtha 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 Recove y(s) for Ch oromethane, Hexach orobutad ene, Naphtha ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for Bromomethane are outs de contro m ts for samp e MC36343-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MSN3476-BS for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Bromomethane, Carbon d su f de, Ch oromethane, , -D ch oroethene, V ny ch or de: 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
- MC36343-3MS/MSD for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 632

- 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) MC36343-3MS, MC36343-3MSD 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 4-N tropheno , Benzy A coho , Pyr d ne are outs de contro m ts
- OP4 632-MS/MSD Recovery(s) for Benzy A coho , Pyr d ne are outs de contro m ts
- Matr x Sp ke Dup cate Recove y(s) for 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
- RPD(s) for MSD for Pyr d ne are outs de contro m ts for samp e OP4 632-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 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 633

- 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) MC36343-3MS, MC36343-3MSD were used as the QC samp es nd cated
- Samp e(s) MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 725

- 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) MC36343-3MS, MC36343-3MSD 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(MC36376)

Summary of Hits

Job Number: MC36376
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/13/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36376-1	MW11-ROX-011315-EB					
No hits reported in this sample.						
MC36376-2	MW11-ROX-011315					
2-Methylnaphthalene		0.020 JB	2.2	0.012	ug/l	SW846 8270D BY SIM
MC36376-3	MW10-ROX-011315					
bis(2-Ethylhexyl)phthalate		0.42 J	2.2	0.37	ug/l	SW846 8270D
2-Methylnaphthalene		0.018 JB	2.2	0.012	ug/l	SW846 8270D BY SIM
MC36376-4	MW9-ROX-011315					
Di-n-butyl phthalate		0.23 J	5.2	0.18	ug/l	SW846 8270D
Phenanthrene		0.016 JB	0.052	0.011	ug/l	SW846 8270D BY SIM
MC36376-5	MW16-ROX-011315					
1-Methylnaphthalene		0.016 JB	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.022 JB	2.1	0.012	ug/l	SW846 8270D BY SIM
MC36376-6	MW24-ROX-011315					
Di-n-butyl phthalate		0.23 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.074 J	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.077 J	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene		0.022 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluorene		0.059 J	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.090 JB	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.099 JB	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.037 J	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36376-7	TB-ROX-011315-HCL					
No hits reported in this sample.						
MC36376-8	TB-ROX-011315-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW11-ROX-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94205.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW11-ROX-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

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

(a) 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:	MW11-ROX-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19893.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	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:	MW11-ROX-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	31%		15-110%
4165-62-2	Phenol-d5	21%		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	62%		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:	MW11-ROX-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93871.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0087	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0076	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0088	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	86%		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-011315-EB		
Lab Sample ID:	MC36376-1	**Date Sampled:**	01/13/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61519.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	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:	MW11-ROX-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94216.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW11-ROX-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	100%		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) 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:	MW11-ROX-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19894.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	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:	MW11-ROX-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	83%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	83%		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	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93872.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0081	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0090	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0080	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	0.020	2.2	0.012	ug/l	JB
85-01-8	Phenanthrene	ND	0.054	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0091	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	106%		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-011315		
Lab Sample ID:	MC36376-2	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61521.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	131%		36-173%
460-00-4	Bromofluorobenzene (S)	115%		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-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94217.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	100%		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) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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:	MW10-ROX-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19923.D	1	01/19/15	KD	01/14/15	OP41632	MSW869
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.93	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.63	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.32	ug/l	

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Report of Analysis

Client Sample ID:	MW10-ROX-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.42	2.2	0.37	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	38%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	82%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	100%		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:	MW10-ROX-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93873.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0084	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0094	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.027	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0083	ug/l	
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	0.018	2.2	0.012	ug/l	JB
85-01-8	Phenanthrene	ND	0.056	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	103%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-011315		
Lab Sample ID:	MC36376-3	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61522.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	95%		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:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94218.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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Report of Analysis

Client Sample ID:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	98%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

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

(a) 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:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19924.D	1	01/19/15	KD	01/14/15	OP41632	MSW869
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.86	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.23	5.2	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	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:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	39%		15-110%
4165-62-2	Phenol-d5	28%		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	82%		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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Report of Analysis

Client Sample ID:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93874.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0078	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0088	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0077	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.011	ug/l	
85-01-8	Phenanthrene	0.016	0.052	0.011	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	102%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-011315		
Lab Sample ID:	MC36376-4	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61523.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	101%		36-173%

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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:	MW16-ROX-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94219.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	MW16-ROX-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW16-ROX-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
2037-26-5	Toluene-D8	99%		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) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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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:	MW16-ROX-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19925.D	1	01/19/15	KD	01/14/15	OP41632	MSW869
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW16-ROX-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	43%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	86%		15-110%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	82%		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	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93875.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.0080	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.016	2.1	0.013	ug/l	JB
91-57-6	2-Methylnaphthalene	0.022	2.1	0.012	ug/l	JB
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	100%		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-011315		
Lab Sample ID:	MC36376-5	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61524.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	101%		36-173%
460-00-4	Bromofluorobenzene (S)	88%		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-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94220.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	MW24-ROX-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW24-ROX-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

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

(a) 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:	MW24-ROX-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19926.D	1	01/19/15	KD	01/14/15	OP41632	MSW869
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.23	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	MW24-ROX-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	43%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	91%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	108%		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-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93876.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
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	0.074	0.11	0.0080	ug/l	J
208-96-8	Acenaphthylene	0.077	0.11	0.0089	ug/l	J
120-12-7	Anthracene	0.022	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	0.059	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.090	2.1	0.013	ug/l	JB
91-57-6	2-Methylnaphthalene	0.099	2.1	0.012	ug/l	JB
85-01-8	Phenanthrene	0.037	0.053	0.011	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	109%		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-011315		
Lab Sample ID:	MC36376-6	**Date Sampled:**	01/13/15
Matrix:	AQ - Ground Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61525.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	95%		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:	TB-ROX-011315-HCL		
Lab Sample ID:	MC36376-7	**Date Sampled:**	01/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94206.D	1	01/20/15	JB	n/a	n/a	MSN3476
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-ROX-011315-HCL		
Lab Sample ID:	MC36376-7	**Date Sampled:**	01/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011315-HCL		
Lab Sample ID:	MC36376-7	**Date Sampled:**	01/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/14/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

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

(a) 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-011315-ST		
Lab Sample ID:	MC36376-8	**Date Sampled:**	01/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/14/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61526.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	86%		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

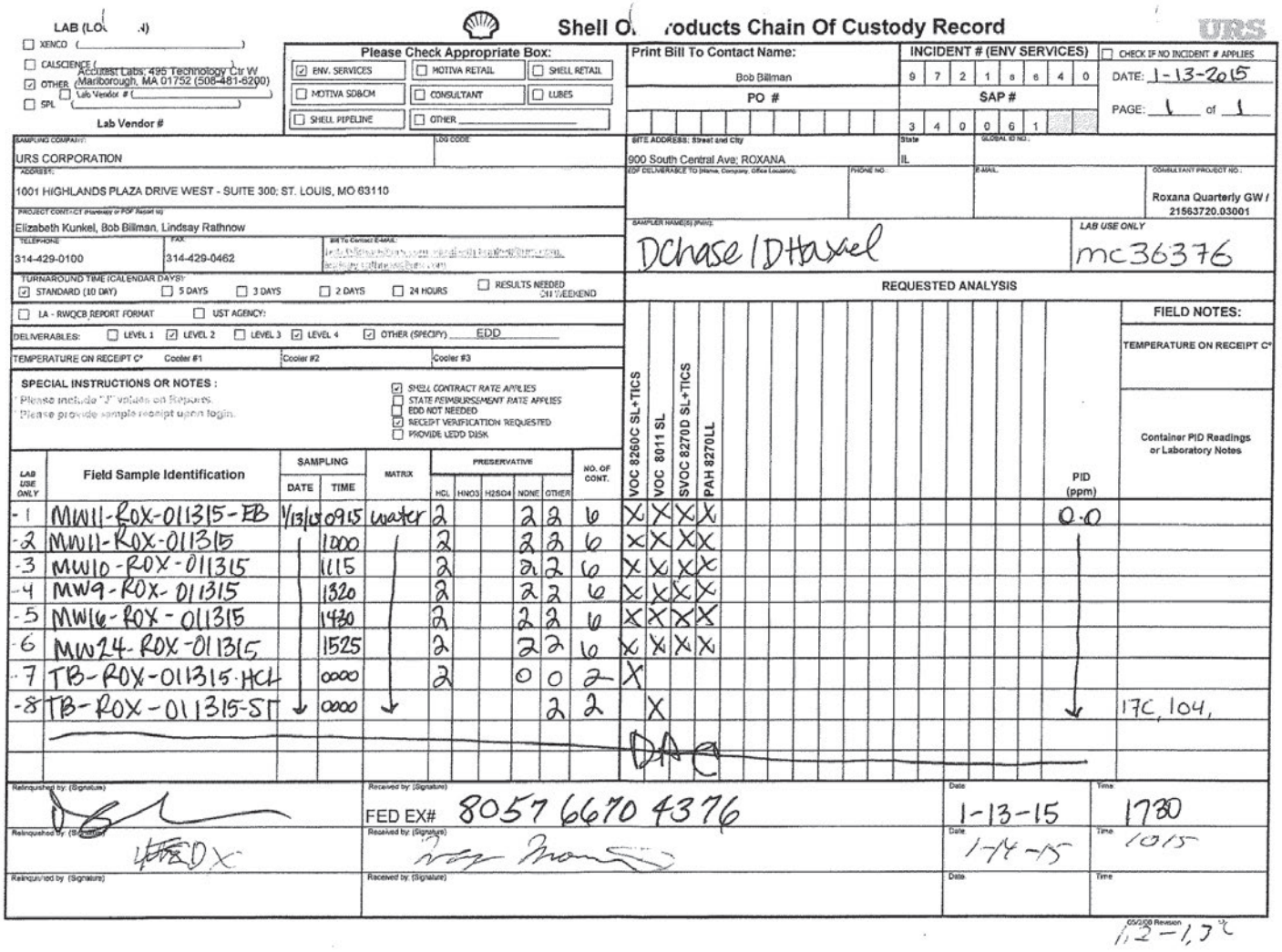
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



LAB (LOCAL)

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

Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

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

Print Bill To Contact Name: Bob Billman

PO #

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

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1-13-2015

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

COP DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21563720.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

BILL To Contact E-MAIL:

SAMPLER NAME(S) (Print): DChase / DHaskel

LAB USE ONLY: mc36376

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°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW11-ROX-011315-EB	1/13/15	0915	water	2			2	2	6	X	X	X	X	0.0	
-2	MW11-ROX-011315		1000		2			2	2	6	X	X	X	X		
-3	MW10-ROX-011315		1115		2			2	2	6	X	X	X	X		
-4	MW9-ROX-011315		1320		2			2	2	6	X	X	X	X		
-5	MW16-ROX-011315		1430		2			2	2	6	X	X	X	X		
-6	MW24-ROX-011315		1525		2			2	2	6	X	X	X	X		
-7	TB-ROX-011315-HCL		0000		2			0	0	2	X					
-8	TB-ROX-011315-ST		0000						2	2		X				17C, 104,

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FED EX# 8057 6670 4376	1-13-15	1730
		1-14-15	1015

05/08 Revision

1.2 - 1.7°

MC36376: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36376 **Client:** URS **Project:** 900 SOUTH CENTRAL AVE

Date / Time Received: 1/14/2015 10 15 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (1 2/1 2) #2 (1 3/1 3)

Cooler Security	Y	or	N		Y	or	N
1 Custody Seals Present	☑		☐	3 COC Present	☑		☐
2 Custody Seals ntact	☑		☐	4 Smpl Dates/ ime OK	☑		☐

Cooler Temperature	Y	or	N
1 emp criteria achieved	☑		☐
2 hermometer D	G1		
3 Cooler media	ce (Bag)		
4 No Coolers	2		

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

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 H	☑		☐
2 All containers accounted or	☑		☐
3 Condition o sample	ntact		

Sample Integrity - Instructions	Y	or	N	N/A
1 Analysis requested is clear	☑		☐	
2 Bottles received or unspeci ied tests	☐		☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

MC36376: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36376

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36376-1 Collected: 13-JAN-15 09:15 By: DCDH Received: 14-JAN-15 By: MW11-ROX-011315-EB						
MC36376-1	SW846 8270D BY SIM	16-JAN-15 13:16	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-1	SW846 8270D	16-JAN-15 21:04	KD	14-JAN-15	AJ	AB8270SL+
MC36376-1	SW846 8260C	20-JAN-15 11:48	JB			V8260SL+
MC36376-1	SW846 8011	20-JAN-15 16:36	NK	19-JAN-15	FT	V8011SL
MC36376-2 Collected: 13-JAN-15 10:00 By: DCDH Received: 14-JAN-15 By: MW11-ROX-011315						
MC36376-2	SW846 8270D BY SIM	16-JAN-15 13:40	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-2	SW846 8270D	16-JAN-15 21:29	KD	14-JAN-15	AJ	AB8270SL+
MC36376-2	SW846 8260C	20-JAN-15 16:58	JB			V8260SL+
MC36376-2	SW846 8011	20-JAN-15 17:20	NK	19-JAN-15	FT	V8011SL
MC36376-3 Collected: 13-JAN-15 11:15 By: DCDH Received: 14-JAN-15 By: MW10-ROX-011315						
MC36376-3	SW846 8270D BY SIM	16-JAN-15 14:04	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-3	SW846 8270D	19-JAN-15 17:32	KD	14-JAN-15	AJ	AB8270SL+
MC36376-3	SW846 8260C	20-JAN-15 17:26	JB			V8260SL+
MC36376-3	SW846 8011	20-JAN-15 17:42	NK	19-JAN-15	FT	V8011SL
MC36376-4 Collected: 13-JAN-15 13:20 By: DCDH Received: 14-JAN-15 By: MW9-ROX-011315						
MC36376-4	SW846 8270D BY SIM	16-JAN-15 14:27	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-4	SW846 8270D	19-JAN-15 17:56	KD	14-JAN-15	AJ	AB8270SL+
MC36376-4	SW846 8260C	20-JAN-15 17:54	JB			V8260SL+
MC36376-4	SW846 8011	20-JAN-15 18:04	NK	19-JAN-15	FT	V8011SL
MC36376-5 Collected: 13-JAN-15 14:30 By: DCDH Received: 14-JAN-15 By: MW16-ROX-011315						
MC36376-5	SW846 8270D BY SIM	16-JAN-15 14:51	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-5	SW846 8270D	19-JAN-15 18:21	KD	14-JAN-15	AJ	AB8270SL+
MC36376-5	SW846 8260C	20-JAN-15 18:22	JB			V8260SL+
MC36376-5	SW846 8011	20-JAN-15 18:27	NK	19-JAN-15	FT	V8011SL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36376

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36376-6 Collected: 13-JAN-15 15:25 By: DCDH Received: 14-JAN-15 By: MW24-ROX-011315						
MC36376-6	SW846 8270D BY SIM	16-JAN-15 15:14	MR	14-JAN-15	AJ	B8270SIMSL
MC36376-6	SW846 8270D	19-JAN-15 18:45	KD	14-JAN-15	AJ	AB8270SL+
MC36376-6	SW846 8011	20-JAN-15 18:49	NK	19-JAN-15	FT	V8011SL
MC36376-6	SW846 8260C	20-JAN-15 18:50	JB			V8260SL+
MC36376-7 Collected: 13-JAN-15 00:00 By: DCDH Received: 14-JAN-15 By: TB-ROX-011315-HCL						
MC36376-7	SW846 8260C	20-JAN-15 12:16	JB			V8260SL+
MC36376-8 Collected: 13-JAN-15 00:00 By: DCDH Received: 14-JAN-15 By: TB-ROX-011315-ST						
MC36376-8	SW846 8011	20-JAN-15 19:11	NK	19-JAN-15	FT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/14/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36376-1.1	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-1.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-1.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-1.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-1.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-1.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-1.5	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-1.5	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-1.5	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-1.5	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36376-2.2	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-2.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-2.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-2.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-2.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-2.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-2.5	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-2.5	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-2.5	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-2.5	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-2.5	Scott Parsick		04/15/15 12:23	Disposed
MC36376-3.2	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-3.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-3.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-3.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-3.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-3.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-3.6	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-3.6	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-3.6	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-3.6	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-3.6	Scott Parsick		04/15/15 12:23	Disposed
MC36376-4.1	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-4.1	Marc Tahtamoni		02/12/15 20:37	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/14/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36376-4.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-4.3	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-4.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-4.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-4.6	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-4.6	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-4.6	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-4.6	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-4.6	Scott Parsick		04/15/15 12:23	Disposed
MC36376-5.2	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-5.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-5.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-5.3	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-5.3	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-5.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-5.5	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-5.5	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-5.5	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-5.5	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-5.5	Scott Parsick		04/15/15 12:23	Disposed
MC36376-6.2	Walk In Ref #22	Marc Tahtamoni	01/14/15 19:30	Retrieve from Storage
MC36376-6.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-6.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-6.4	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-6.4	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-6.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36376-6.6	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-6.6	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-6.6	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-6.6	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage
MC36376-6.6	Scott Parsick		04/15/15 12:23	Disposed
MC36376-7.1	VOC Ref #1	Jaclyn Bergeron	01/20/15 09:47	Retrieve from Storage
MC36376-7.1	Jaclyn Bergeron	GCMSN	01/20/15 09:47	Load on Instrument
MC36376-7.1	GCMSN	Jaclyn Bergeron	01/21/15 09:17	Unload from Instrument
MC36376-7.1	Jaclyn Bergeron	VOC Ref #1	01/21/15 09:17	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/14/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36376-7.1	Scott Parsick		04/15/15 12:23	Disposed
MC36376-8.2	VOC Ref #3	Marc Tahtamoni	01/19/15 19:38	Retrieve from Storage
MC36376-8.2	Marc Tahtamoni	VOC Ref #3	01/19/15 19:40	Return to Storage
MC36376-8.2	VOC Ref #3	Marc Tahtamoni	01/19/15 19:42	Retrieve from Storage
MC36376-8.2	Marc Tahtamoni		02/12/15 20:37	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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	0.50	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-MB	N94202.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

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

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	47.9	96	70-130
107-02-8	Acrolein	250	248	99	70-130
107-13-1	Acrylonitrile	50	48.4	97	70-130
71-43-2	Benzene	50	48.6	97	70-130
108-86-1	Bromobenzene	50	51.1	102	70-130
74-97-5	Bromochloromethane	50	52.7	105	70-130
75-27-4	Bromodichloromethane	50	55.5	111	70-130
75-25-2	Bromoform	50	56.9	114	70-130
74-83-9	Bromomethane	50	40.5	81	70-130
78-93-3	2-Butanone (MEK)	50	54.7	109	70-130
104-51-8	n-Butylbenzene	50	58.3	117	70-130
135-98-8	sec-Butylbenzene	50	49.1	98	70-130
98-06-6	tert-Butylbenzene	50	47.8	96	70-130
75-15-0	Carbon disulfide	50	38.3	77	70-130
56-23-5	Carbon tetrachloride	50	53.1	106	70-130
108-90-7	Chlorobenzene	50	49.8	100	70-130
75-00-3	Chloroethane	50	45.3	91	70-130
110-75-8	2-Chloroethyl vinyl ether	50	51.3	103	70-130
67-66-3	Chloroform	50	51.1	102	70-130
74-87-3	Chloromethane	50	34.0	68* [a]	70-130
95-49-8	o-Chlorotoluene	50	47.6	95	70-130
106-43-4	p-Chlorotoluene	50	48.9	98	70-130
124-48-1	Dibromochloromethane	50	52.5	105	70-130
95-50-1	1,2-Dichlorobenzene	50	53.3	107	70-130
541-73-1	1,3-Dichlorobenzene	50	51.3	103	70-130
106-46-7	1,4-Dichlorobenzene	50	51.9	104	70-130
75-71-8	Dichlorodifluoromethane	50	44.0	88	70-130
75-34-3	1,1-Dichloroethane	50	45.7	91	70-130
107-06-2	1,2-Dichloroethane	50	50.6	101	70-130
75-35-4	1,1-Dichloroethene	50	42.0	84	70-130
156-59-2	cis-1,2-Dichloroethene	50	49.7	99	70-130
156-60-5	trans-1,2-Dichloroethene	50	47.1	94	70-130
78-87-5	1,2-Dichloropropane	50	51.3	103	70-130
142-28-9	1,3-Dichloropropane	50	55.8	112	70-130
594-20-7	2,2-Dichloropropane	50	52.5	105	70-130
563-58-6	1,1-Dichloropropene	50	45.7	91	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	62.2	124	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	70-130
123-91-1	1,4-Dioxane	250	265	106	70-130
97-63-2	Ethyl methacrylate	50	64.9	130	77-137
100-41-4	Ethylbenzene	50	51.2	102	70-130
87-68-3	Hexachlorobutadiene	50	64.8	130	70-130
591-78-6	2-Hexanone	50	51.1	102	70-130
98-82-8	Isopropylbenzene	50	47.8	96	70-130
99-87-6	p-Isopropyltoluene	50	53.2	106	70-130
1634-04-4	Methyl Tert Butyl Ether	50	58.6	117	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	60.4	121	70-130
74-95-3	Methylene bromide	50	53.9	108	70-130
75-09-2	Methylene chloride	50	47.1	94	70-130
91-20-3	Naphthalene	50	66.0	132* [a]	70-130
103-65-1	n-Propylbenzene	50	47.7	95	70-130
100-42-5	Styrene	50	57.0	114	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	57.6	115	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	60.4	121	70-130
127-18-4	Tetrachloroethene	50	50.8	102	70-130
108-88-3	Toluene	50	52.0	104	70-130
87-61-6	1,2,3-Trichlorobenzene	50	61.3	123	70-130
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	70-130
71-55-6	1,1,1-Trichloroethane	50	50.4	101	70-130
79-00-5	1,1,2-Trichloroethane	50	57.6	115	70-130
79-01-6	Trichloroethene	50	52.5	105	70-130
75-69-4	Trichlorofluoromethane	50	49.4	99	70-130
96-18-4	1,2,3-Trichloropropane	50	61.6	123	70-130
95-63-6	1,2,4-Trimethylbenzene	50	50.0	100	70-130
108-67-8	1,3,5-Trimethylbenzene	50	52.2	104	70-130
108-05-4	Vinyl Acetate	50	110	220* [b]	70-130
75-01-4	Vinyl chloride	50	38.2	76	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	51.7	103	70-130
1330-20-7	Xylene (total)	150	154	103	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3476-BS	N94199.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	MC36343-3 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	35.0		50	66.2	62* [a]	50	72.0	74	8	70-130/30
107-02-8	Acrolein	ND		250	227	91	250	249	100	9	70-130/30
107-13-1	Acrylonitrile	ND		50	48.9	98	50	52.7	105	7	70-130/30
71-43-2	Benzene	ND		50	47.1	94	50	48.3	97	3	70-130/30
108-86-1	Bromobenzene	ND		50	48.3	97	50	50.8	102	5	70-130/30
74-97-5	Bromochloromethane	ND		50	51.3	103	50	52.3	105	2	70-130/30
75-27-4	Bromodichloromethane	ND		50	53.4	107	50	54.6	109	2	70-130/30
75-25-2	Bromoform	ND		50	52.4	105	50	55.8	112	6	70-130/30
74-83-9	Bromomethane	ND		50	21.7	43* [a]	50	35.0	70	47* [b]	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	40.9	82	50	44.1	88	8	70-130/30
104-51-8	n-Butylbenzene	ND		50	55.0	110	50	57.7	115	5	70-130/30
135-98-8	sec-Butylbenzene	ND		50	46.6	93	50	48.6	97	4	70-130/30
98-06-6	tert-Butylbenzene	ND		50	45.1	90	50	47.8	96	6	70-130/30
75-15-0	Carbon disulfide	ND		50	39.3	79	50	38.9	78	1	70-130/30
56-23-5	Carbon tetrachloride	ND		50	51.7	103	50	52.9	106	2	70-130/30
108-90-7	Chlorobenzene	ND		50	48.1	96	50	49.9	100	4	70-130/30
75-00-3	Chloroethane	ND		50	41.9	84	50	42.3	85	1	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	49.7	99	50	50.6	101	2	70-130/30
67-66-3	Chloroform	ND		50	50.7	101	50	51.6	103	2	70-130/30
74-87-3	Chloromethane	ND		50	25.6	51* [a]	50	30.1	60* [a]	16	70-130/30
95-49-8	o-Chlorotoluene	ND		50	45.3	91	50	47.3	95	4	70-130/30
106-43-4	p-Chlorotoluene	ND		50	46.5	93	50	49.0	98	5	70-130/30
124-48-1	Dibromochloromethane	ND		50	50.5	101	50	52.1	104	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	50.7	101	50	53.0	106	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	48.2	96	50	51.0	102	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	48.9	98	50	52.0	104	6	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	41.9	84	50	43.7	87	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	45.2	90	50	45.4	91	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	48.3	97	50	50.0	100	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	41.7	83	50	42.5	85	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	49.6	99	50	49.9	100	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	46.5	93	50	46.8	94	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	49.7	99	50	50.6	101	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	53.2	106	50	55.3	111	4	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	51.5	103	50	51.2	102	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	43.9	88	50	45.0	90	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Compound	MC36343-3 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		50	59.3	119	50	60.9	122	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	50.4	101	50	51.4	103	2	70-130/30
123-91-1	1,4-Dioxane	ND		250	251	100	250	281	112	11	70-130/30
97-63-2	Ethyl methacrylate	ND		50	61.7	123	50	66.1	132	7	72-139/30
100-41-4	Ethylbenzene	ND		50	50.1	100	50	51.4	103	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	60.1	120	50	65.4	131* [a]	8	70-130/30
591-78-6	2-Hexanone	ND		50	41.2	82	50	45.6	91	10	70-130/30
98-82-8	Isopropylbenzene	ND		50	45.4	91	50	47.7	95	5	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	50.7	101	50	53.6	107	6	70-130/30
1634-04-4	Methyl Tert Butyl Ether	0.84	J	50	54.5	107	50	55.7	110	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	55.5	111	50	61.2	122	10	70-130/30
74-95-3	Methylene bromide	ND		50	49.8	100	50	51.9	104	4	70-130/30
75-09-2	Methylene chloride	ND		50	46.9	94	50	46.8	94	0	70-130/30
91-20-3	Naphthalene	ND		50	66.9	134* [a]	50	67.6	135* [a]	1	70-130/30
103-65-1	n-Propylbenzene	ND		50	45.5	91	50	47.9	96	5	70-130/30
100-42-5	Styrene	ND		50	55.2	110	50	57.4	115	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	55.9	112	50	57.2	114	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.0	110	50	60.8	122	10	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.4	99	50	50.9	102	3	70-130/30
108-88-3	Toluene	ND		50	50.7	101	50	51.6	103	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	64.1	128	50	63.3	127	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	55.9	112	50	57.6	115	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	50.6	101	50	50.9	102	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	55.1	110	50	57.4	115	4	70-130/30
79-01-6	Trichloroethene	ND		50	50.3	101	50	51.4	103	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	53.9	108	50	54.4	109	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	55.8	112	50	61.7	123	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	48.0	96	50	50.3	101	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	49.1	98	50	51.8	104	5	70-130/30
108-05-4	Vinyl Acetate	ND		50	111	222* [c]	50	116	232* [c]	4	70-130/30
75-01-4	Vinyl chloride	ND		50	37.1	74	50	39.3	79	6	70-130/30
	m,p-Xylene	ND		100	101	101	100	105	105	4	70-130/30
95-47-6	o-Xylene	ND		50	50.9	102	50	52.3	105	3	70-130/30
1330-20-7	Xylene (total)	ND		150	152	101	150	157	105	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36343-3MS	N94211.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3MSD	N94212.D	1	01/20/15	JB	n/a	n/a	MSN3476
MC36343-3	N94209.D	1	01/20/15	JB	n/a	n/a	MSN3476

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-7

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
1868-53-7	Dibromofluoromethane	103%	101%	100%	70-130%
2037-26-5	Toluene-D8	100%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	90%	91%	97%	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.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3476-CC3452	**Injection Date:**	01/20/15
Lab File ID:	N94198.D	**Injection Time:**	08:30
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	323007	9.11	474425	9.98	241145	13.23	216158	15.79	121352	6.71
Upper Limit [a]	646014	9.61	948850	10.48	482290	13.73	432316	16.29	242704	7.21
Lower Limit [b]	161504	8.61	237213	9.48	120573	12.73	108079	15.29	60676	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3476-BS	327434	9.11	480596	9.98	245246	13.23	219749	15.79	119370	6.71
MSN3476-MB	325574	9.11	475516	9.98	226873	13.23	188280	15.79	123862	6.74
ZZZZZZ	328136	9.12	481878	9.99	228250	13.24	192188	15.79	118548	6.74
ZZZZZZ	328544	9.12	489837	9.98	228614	13.23	183630	15.79	86941	6.75
MC36376-1	324213	9.12	484583	9.98	234702	13.23	194137	15.79	122028	6.74
MC36376-7	321313	9.12	479577	9.98	230605	13.23	178792	15.79	89366	6.76
ZZZZZZ	324872	9.11	477495	9.98	228945	13.24	194609	15.79	115081	6.73
ZZZZZZ	325849	9.12	483387	9.98	228674	13.23	178890	15.79	91098	6.75
MC36343-3	323315	9.12	481727	9.98	231426	13.24	191033	15.79	96501	6.74
ZZZZZZ	319362	9.12	469774	9.98	225575	13.23	188938	15.79	99322	6.75
MC36343-3MS	322919	9.12	485105	9.98	247193	13.23	226014	15.79	100973	6.71
MC36343-3MSD	323603	9.11	478574	9.98	244251	13.23	218337	15.79	113977	6.71
ZZZZZZ	321334	9.12	468805	9.98	223839	13.23	193425	15.79	101831	6.74
ZZZZZZ	320144	9.11	476660	9.98	228676	13.23	194556	15.79	112874	6.74
ZZZZZZ	321898	9.11	471811	9.98	225888	13.24	188299	15.79	94721	6.74
MC36376-2	322267	9.12	479091	9.98	232487	13.24	195818	15.79	118396	6.73
MC36376-3	319967	9.12	480367	9.98	231902	13.24	197258	15.79	109522	6.74
MC36376-4	317651	9.12	476558	9.98	227662	13.24	196013	15.79	124779	6.74
MC36376-5	319460	9.12	468100	9.98	223586	13.23	191028	15.79	109997	6.73
MC36376-6	319185	9.12	476569	9.99	227378	13.24	187906	15.79	122215	6.74
ZZZZZZ	318287	9.12	480208	9.98	231429	13.24	196824	15.79	116731	6.72
ZZZZZZ	314269	9.12	465548	9.98	222719	13.24	194571	15.79	112307	6.73

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36376-1	N94205.D	101	99	99
MC36376-2	N94216.D	101	100	95
MC36376-3	N94217.D	101	100	95
MC36376-4	N94218.D	102	98	97
MC36376-5	N94219.D	98	99	96
MC36376-6	N94220.D	100	99	99
MC36376-7	N94206.D	101	101	103
MC36343-3MS	N94211.D	103	100	90
MC36343-3MSD	N94212.D	101	98	91
MSN3476-BS	N94199.D	101	101	92
MSN3476-MB	N94202.D	99	100	98

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MB	W19875.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MB	W19875.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	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	83%	15-110%
4165-60-0	Nitrobenzene-d5	68%	30-130%
321-60-8	2-Fluorobiphenyl	58%	30-130%
1718-51-0	Terphenyl-d14	99%	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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-MB	I93860.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	0.017	2.0	0.012	ug/l	J
91-57-6	2-Methylnaphthalene	0.020	2.0	0.011	ug/l	J
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	92%	15-110%
4165-60-0	Nitrobenzene-d5	68%	30-130%
321-60-8	2-Fluorobiphenyl	55%	30-130%
1718-51-0	Terphenyl-d14	101%	30-130%

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-BS	W19886.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	20.5	41	30-130
95-57-8	2-Chlorophenol	50	35.1	70	30-130
59-50-7	4-Chloro-3-methyl phenol	50	37.1	74	30-130
120-83-2	2,4-Dichlorophenol	50	38.7	77	30-130
105-67-9	2,4-Dimethylphenol	50	34.2	68	30-130
51-28-5	2,4-Dinitrophenol	50	39.6	79	30-130
534-52-1	4,6-Dinitro-o-cresol	50	44.7	89	30-130
95-48-7	2-Methylphenol	50	31.8	64	30-130
	3&4-Methylphenol	100	60.2	60	30-130
88-75-5	2-Nitrophenol	50	38.1	76	30-130
100-02-7	4-Nitrophenol	50	13.2	26* [a]	30-130
87-86-5	Pentachlorophenol	50	38.4	77	30-130
108-95-2	Phenol	50	16.9	34	30-130
95-95-4	2,4,5-Trichlorophenol	50	48.5	97	30-130
88-06-2	2,4,6-Trichlorophenol	50	35.2	70	30-130
62-53-3	Aniline	50	28.7	57	40-140
101-55-3	4-Bromophenyl phenyl ether	50	41.3	83	40-140
85-68-7	Butyl benzyl phthalate	50	42.6	85	40-140
100-51-6	Benzyl Alcohol	50	18.9	38* [a]	40-140
91-58-7	2-Chloronaphthalene	50	41.2	82	40-140
106-47-8	4-Chloroaniline	50	38.0	76	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	39.7	79	40-140
111-44-4	bis(2-Chloroethyl)ether	50	36.8	74	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	42.3	85	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	42.6	85	40-140
122-66-7	1,2-Diphenylhydrazine	50	40.8	82	40-140
121-14-2	2,4-Dinitrotoluene	50	43.0	86	40-140
606-20-2	2,6-Dinitrotoluene	50	40.4	81	40-140
91-94-1	3,3'-Dichlorobenzidine	50	43.1	86	40-140
132-64-9	Dibenzofuran	50	42.4	85	40-140
84-74-2	Di-n-butyl phthalate	50	41.6	83	40-140
117-84-0	Di-n-octyl phthalate	50	43.0	86	40-140
84-66-2	Diethyl phthalate	50	42.9	86	40-140
131-11-3	Dimethyl phthalate	50	42.1	84	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	43.5	87	40-140
118-74-1	Hexachlorobenzene	50	39.0	78	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-BS	W19886.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	20.4	41	40-140
67-72-1	Hexachloroethane	50	25.6	51	40-140
78-59-1	Isophorone	50	36.4	73	40-140
88-74-4	2-Nitroaniline	50	43.8	88	40-140
99-09-2	3-Nitroaniline	50	39.4	79	40-140
100-01-6	4-Nitroaniline	50	41.5	83	40-140
98-95-3	Nitrobenzene	50	37.8	76	40-140
62-75-9	n-Nitrosodimethylamine	50	28.6	57	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	40.9	82	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.1	76	40-140
110-86-1	Pyridine	50	15.6	31* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	75%	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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-BS	I93861.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	37.1	74	45-120
208-96-8	Acenaphthylene	50	38.8	78	31-120
120-12-7	Anthracene	50	37.5	75	51-120
56-55-3	Benzo(a)anthracene	50	43.8	88	46-139
50-32-8	Benzo(a)pyrene	50	44.4	89	39-125
205-99-2	Benzo(b)fluoranthene	50	43.4	87	41-137
191-24-2	Benzo(g,h,i)perylene	50	42.6	85	47-132
207-08-9	Benzo(k)fluoranthene	50	38.5	77	46-131
218-01-9	Chrysene	50	40.5	81	43-129
53-70-3	Dibenzo(a,h)anthracene	50	41.8	84	42-138
206-44-0	Fluoranthene	50	41.8	84	47-134
86-73-7	Fluorene	50	38.2	76	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.8	86	41-137
90-12-0	1-Methylnaphthalene	50	33.1	66	39-120
91-57-6	2-Methylnaphthalene	50	33.9	68	22-126
85-01-8	Phenanthrene	50	36.4	73	51-120
129-00-0	Pyrene	50	42.7	85	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	45%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	95%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MS	W19887.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
OP41632-MSD	W19888.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
MC36343-3	W19889.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	MC36343-3 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		52.6	23.1	44	53.2	22.1	42	4	30-130/20
95-57-8	2-Chlorophenol	ND		52.6	35.9	68	53.2	32.5	61	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		52.6	40.6	77	53.2	38.1	72	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		52.6	38.9	74	53.2	35.5	67	9	30-130/20
105-67-9	2,4-Dimethylphenol	ND		52.6	36.9	70	53.2	36.1	68	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		52.6	44.8	85	53.2	43.3	81	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		52.6	48.3	92	53.2	45.0	85	7	30-130/20
95-48-7	2-Methylphenol	ND		52.6	35.8	68	53.2	32.4	61	10	30-130/20
	3&4-Methylphenol	ND		105	65.2	62	106	61.6	58	6	30-130/20
88-75-5	2-Nitrophenol	ND		52.6	40.3	77	53.2	36.5	69	10	30-130/20
100-02-7	4-Nitrophenol	ND		52.6	19.2	36	53.2	20.1	38	5	30-130/20
87-86-5	Pentachlorophenol	ND		52.6	45.4	86	53.2	44.2	83	3	30-130/20
108-95-2	Phenol	ND		52.6	17.2	33	53.2	16.2	30	6	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		52.6	52.0	99	53.2	50.2	94	4	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		52.6	35.7	68	53.2	32.2	61	10	30-130/20
62-53-3	Aniline	ND		52.6	28.2	54	53.2	24.5	46	14	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		52.6	43.2	82	53.2	40.6	76	6	40-140/20
85-68-7	Butyl benzyl phthalate	ND		52.6	43.0	82	53.2	41.5	78	4	40-140/20
100-51-6	Benzyl Alcohol	ND		52.6	20.1	38* [a]	53.2	17.1	32* [a]	16	40-140/20
91-58-7	2-Chloronaphthalene	ND		52.6	42.4	81	53.2	38.6	73	9	40-140/20
106-47-8	4-Chloroaniline	ND		52.6	36.1	69	53.2	32.9	62	9	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		52.6	39.7	75	53.2	36.1	68	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		52.6	37.3	71	53.2	33.7	63	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		52.6	43.9	83	53.2	40.6	76	8	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		52.6	43.0	82	53.2	39.1	74	10	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		52.6	42.2	80	53.2	40.0	75	5	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		52.6	42.6	81	53.2	40.6	76	5	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		52.6	41.6	79	53.2	38.2	72	9	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		52.6	29.0	55	53.2	25.9	49	11	40-140/20
132-64-9	Dibenzofuran	ND		52.6	42.2	80	53.2	39.0	73	8	40-140/20
84-74-2	Di-n-butyl phthalate	ND		52.6	41.9	80	53.2	40.4	76	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		52.6	43.5	83	53.2	41.3	78	5	40-140/20
84-66-2	Diethyl phthalate	ND		52.6	42.9	82	53.2	40.2	76	6	40-140/20
131-11-3	Dimethyl phthalate	ND		52.6	42.7	81	53.2	39.8	75	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		52.6	43.3	82	53.2	42.3	80	2	40-140/20
118-74-1	Hexachlorobenzene	ND		52.6	41.4	79	53.2	38.5	72	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41632-MS	W19887.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
OP41632-MSD	W19888.D	1	01/16/15	KD	01/14/15	OP41632	MSW868
MC36343-3	W19889.D	1	01/16/15	KD	01/14/15	OP41632	MSW868

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	MC36343-3 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		52.6	22.9	44	53.2	21.0	39* [b]	9	40-140/20
67-72-1	Hexachloroethane	ND		52.6	36.0	68	53.2	33.3	63	8	40-140/20
78-59-1	Isophorone	ND		52.6	36.0	68	53.2	33.6	63	7	40-140/20
88-74-4	2-Nitroaniline	ND		52.6	45.2	86	53.2	41.7	78	8	40-140/20
99-09-2	3-Nitroaniline	ND		52.6	41.9	80	53.2	37.8	71	10	40-140/20
100-01-6	4-Nitroaniline	ND		52.6	41.8	79	53.2	39.0	73	7	40-140/20
98-95-3	Nitrobenzene	ND		52.6	37.0	70	53.2	35.3	66	5	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		52.6	30.2	57	53.2	28.2	53	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		52.6	41.3	78	53.2	37.7	71	9	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		52.6	40.0	76	53.2	37.8	71	6	40-140/20
110-86-1	Pyridine	ND		52.6	19.0	36* [a]	53.2	13.0	24* [a]	38* [c]	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
367-12-4	2-Fluorophenol	42%	37%	39%	15-110%
4165-62-2	Phenol-d5	31%	28%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	67%	76%	15-110%
4165-60-0	Nitrobenzene-d5	73%	66%	68%	30-130%
321-60-8	2-Fluorobiphenyl	64%	58%	58%	30-130%
1718-51-0	Terphenyl-d14	85%	82%	88%	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.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41633-MS	I93862.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
OP41633-MSD	I93863.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501
MC36343-3	I93864.D	1	01/16/15	MR	01/14/15	OP41633	MSI3501

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6

CAS No.	Compound	MC36343-3 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	0.030	J	52.6	37.8	72	53.2	35.1	66	7	41-120/20
208-96-8	Acenaphthylene	0.027	J	52.6	39.6	75	53.2	36.7	69	8	30-120/20
120-12-7	Anthracene	ND		52.6	38.1	72	53.2	36.7	69	4	47-120/20
56-55-3	Benzo(a)anthracene	ND		52.6	44.3	84	53.2	42.2	79	5	36-139/20
50-32-8	Benzo(a)pyrene	ND		52.6	44.3	84	53.2	41.3	78	7	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		52.6	41.7	79	53.2	40.9	77	2	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		52.6	42.4	81	53.2	40.5	76	5	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		52.6	40.3	77	53.2	36.9	69	9	34-133/20
218-01-9	Chrysene	ND		52.6	40.7	77	53.2	38.8	73	5	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		52.6	41.4	79	53.2	39.5	74	5	29-140/20
206-44-0	Fluoranthene	0.017	J	52.6	41.7	79	53.2	40.1	75	4	42-132/20
86-73-7	Fluorene	0.027	J	52.6	38.7	73	53.2	35.8	67	8	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		52.6	42.8	81	53.2	40.5	76	6	28-139/20
90-12-0	1-Methylnaphthalene	0.030	JB	52.6	34.9	66	53.2	32.9	62	6	33-120/20
91-57-6	2-Methylnaphthalene	0.036	JB	52.6	36.3	69	53.2	33.7	63	7	20-125/20
85-01-8	Phenanthrene	0.030	J	52.6	37.1	70	53.2	35.2	66	5	47-120/20
129-00-0	Pyrene	ND		52.6	42.9	82	53.2	41.0	77	5	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
367-12-4	2-Fluorophenol	42%	40%		15-110%
4165-62-2	Phenol-d5	31%	29%		15-110%
118-79-6	2,4,6-Tribromophenol	86%	82%		15-110%
4165-60-0	Nitrobenzene-d5	71%	66%	66%	30-130%
321-60-8	2-Fluorobiphenyl	59%	55%	56%	30-130%
1718-51-0	Terphenyl-d14	88%	83%	89%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3501-CC3483	**Injection Date:**	01/16/15
Lab File ID:	I93859.D	**Injection Time:**	08:34
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	263663	3.67	522211	4.71	302693	6.22	539993	7.54	390466	10.31	994914	11.75
Upper Limit [a]	527326	4.17	1044422	5.21	605386	6.72	1079986	8.04	780932	10.81	1989828	12.25
Lower Limit [b]	131832	3.17	261106	4.21	151347	5.72	269997	7.04	195233	9.81	497457	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
OP41633-MB	274339	3.67	547192	4.71	314521	6.22	543041	7.54	395087	10.31	988293	11.75
OP41633-BS	293753	3.67	584212	4.71	326152	6.23	582514	7.55	406408	10.31	986175	11.75
OP41633-MS	299352	3.67	597017	4.71	333855	6.23	593246	7.55	418004	10.31	1017534	11.75
OP41633-MSD	289264	3.67	579588	4.71	324783	6.23	572886	7.55	402286	10.31	988561	11.75
MC36343-3	268475	3.67	534276	4.71	305983	6.22	533826	7.54	386956	10.31	985730	11.75
ZZZZZZ	279571	3.67	559881	4.71	323589	6.23	554852	7.54	401413	10.31	1015733	11.75
ZZZZZZ	273656	3.67	547681	4.71	316443	6.22	553546	7.54	408189	10.31	1040803	11.75
ZZZZZZ	272836	3.67	547097	4.71	310661	6.22	531476	7.54	380431	10.31	951664	11.75
ZZZZZZ	270679	3.67	538606	4.71	311957	6.22	545685	7.54	395944	10.31	998101	11.75
ZZZZZZ	301176	3.67	599285	4.71	340856	6.22	589101	7.55	421747	10.31	1043231	11.75
ZZZZZZ	284209	3.67	567648	4.70	332899	6.22	580066	7.54	418904	10.31	1043173	11.75
MC36376-1	283265	3.67	567459	4.70	328037	6.22	570832	7.54	413758	10.31	1041237	11.75
MC36376-2	290159	3.67	583492	4.71	337817	6.22	592317	7.54	420279	10.31	1057719	11.75
MC36376-3	289392	3.67	579432	4.71	334225	6.22	578271	7.55	415280	10.31	1040257	11.75
MC36376-4	288613	3.67	578599	4.71	333644	6.22	584924	7.54	420314	10.31	1057587	11.75
MC36376-5	259090	3.67	517095	4.70	295765	6.22	522305	7.54	376638	10.31	961669	11.75
MC36376-6	276221	3.67	550751	4.70	315667	6.22	548681	7.54	391044	10.31	980180	11.75

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW868-CC868	**Injection Date:**	01/16/15
Lab File ID:	W19871.D	**Injection Time:**	10:02
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	159348	4.63	531767	5.74	342744	7.28	574859	8.55	619093	10.96	582835	12.54
Upper Limit [a]	318696	5.13	1063534	6.24	685488	7.78	1149718	9.05	1238186	11.46	1165670	13.04
Lower Limit [b]	79674	4.13	265884	5.24	171372	6.78	287430	8.05	309547	10.46	291418	12.04

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
OP41262-MSD2	181237	4.64	615837	5.74	385441	7.28	651467	8.55	678100	10.97	647974	12.55
OP41262-MSD1	181237	4.64	615837	5.74	385441	7.28	651467	8.55	678100	10.97	647974	12.55
MC35829-2T	184965	4.63	624479	5.74	394958	7.27	660138	8.55	685066	10.96	649539	12.54
MC36225-9	184965	4.63	624479	5.74	394958	7.27	660138	8.55	685066	10.96	649539	12.54
ZZZZZZ	199388	4.63	672074	5.74	418976	7.27	682308	8.55	681686	10.96	617268	12.54
OP41632-MB	173298	4.63	587181	5.74	367400	7.28	608188	8.55	631260	10.96	601190	12.54
OP41262-MB	182045	4.63	599905	5.74	388327	7.27	649385	8.55	690800	10.96	629144	12.54
OP41262-BS	212868	4.63	706187	5.74	436490	7.28	717702	8.55	732263	10.96	674914	12.54
OP41262-MS2	206199	4.63	703485	5.74	444823	7.28	737142	8.55	764880	10.96	703286	12.54
OP41262-MS1	206199	4.63	703485	5.74	444823	7.28	737142	8.55	764880	10.96	703286	12.54
OP41182-MB	201743	4.63	687973	5.74	440173	7.27	718049	8.55	715110	10.96	657348	12.54
OP41182-BS	209003	4.63	705039	5.74	444805	7.28	728646	8.55	735033	10.96	649612	12.54
OP41182-MS1	209914	4.63	699049	5.74	436271	7.28	706482	8.55	709118	10.96	648991	12.54
OP41182-MSD1	206553	4.63	696054	5.74	424603	7.28	696149	8.55	716043	10.96	636775	12.54
MC36225-8	205947	4.63	685303	5.74	430884	7.27	704186	8.55	715515	10.95	635776	12.54
ZZZZZZ	197623	4.63	664450	5.74	422582	7.27	693775	8.55	702151	10.96	641283	12.54
ZZZZZZ	189551	4.63	635191	5.74	403722	7.27	657769	8.54	664604	10.96	590871	12.54
OP41632-BS	176145	4.63	584441	5.74	356142	7.27	596239	8.55	612779	10.96	569745	12.54
OP41632-MS	192050	4.63	656458	5.74	395873	7.28	646339	8.55	663225	10.96	615817	12.54
OP41632-MSD	189723	4.63	632843	5.74	389213	7.27	627245	8.55	639514	10.96	604755	12.54
MC36343-3	184231	4.63	603963	5.74	385356	7.27	624540	8.54	635735	10.96	599996	12.54
ZZZZZZ	184844	4.63	620546	5.74	391753	7.27	629700	8.54	650916	10.95	611581	12.54
ZZZZZZ	190152	4.63	634943	5.74	398460	7.27	663352	8.54	686265	10.95	645727	12.54
ZZZZZZ	179479	4.63	614173	5.74	391709	7.27	633026	8.54	651809	10.95	603784	12.54
MC36376-1	189387	4.63	618798	5.74	383987	7.27	629387	8.54	652940	10.95	623818	12.54
MC36376-2	194521	4.63	660927	5.74	410391	7.27	691337	8.54	707937	10.96	658747	12.54

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW868-CC868	Injection Date:	01/16/15
Lab File ID:	W19871.D	Injection Time:	10:02
Instrument ID:	GCMSW	Method:	SW846 8270D

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW869-CC868	**Injection Date:**	01/19/15
Lab File ID:	W19901.D	**Injection Time:**	08:27
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	156943	4.63	528430	5.74	339605	7.28	567404	8.55	610301	10.96	584795	12.54
Upper Limit [a]	313886	5.13	1056860	6.24	679210	7.78	1134808	9.05	1220602	11.46	1169590	13.04
Lower Limit [b]	78472	4.13	264215	5.24	169803	6.78	283702	8.05	305151	10.46	292398	12.04
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**
OP41679-MB	186905	4.63	631584	5.74	402102	7.27	657173	8.55	694772	10.95	647047	12.54
OP41679-BS	169268	4.63	556142	5.74	346955	7.27	600172	8.55	632256	10.96	578584	12.54
OP41679-MS	210639	4.68	588233	5.77	241750	7.31	632704	8.57	673701	10.98	658535	12.55
OP41679-MSD	214990	4.70	559521	5.78	284998	7.32	653184	8.58	676001	10.98	644046	12.56
MC36400-4	117348	4.68	598122	5.78	289150	7.31	693173	8.57	689994	10.98	650588	12.55
ZZZZZZ	168396	4.63	572146	5.74	355194	7.28	561298	8.55	560527	10.96	539593	12.54
ZZZZZZ	220310	4.63	742259	5.74	451809	7.28	715005	8.55	689358	10.96	623481	12.54
ZZZZZZ	197399	4.63	668176	5.74	420365	7.27	670646	8.55	631961	10.96	583647	12.54
ZZZZZZ	229906	4.63	783234	5.74	476656	7.28	737518	8.55	680885	10.96	621203	12.54
MC36400-4	160514	4.64	529205	5.74	327732	7.28	529903	8.55	537970	10.96	532879	12.54
OP41649-LB	193439	4.63	649112	5.74	399774	7.27	654549	8.55	701738	10.96	663249	12.54
OP41649-MB	193439	4.63	649112	5.74	399774	7.27	654549	8.55	701738	10.96	663249	12.54
OP41649-BS	171270	4.63	572507	5.74	350491	7.28	577540	8.55	585261	10.96	560280	12.54
OP41649-MS	200485	4.63	687066	5.74	416019	7.28	664156	8.55	649135	10.96	598296	12.54
OP41649-MSD	206495	4.63	690902	5.74	414714	7.28	674770	8.55	660408	10.96	612746	12.54
JB85637-1AB	191177	4.63	629815	5.74	398917	7.27	651332	8.55	664747	10.96	642554	12.54
ZZZZZZ	185359	4.63	637103	5.74	395115	7.27	637697	8.55	651071	10.96	625467	12.54
ZZZZZZ	187146	4.63	626299	5.74	387282	7.27	643318	8.54	638553	10.95	617855	12.54
ZZZZZZ	182981	4.63	602675	5.74	372334	7.27	613833	8.55	616096	10.96	583678	12.54
ZZZZZZ	182627	4.63	617163	5.74	383593	7.27	625561	8.55	631546	10.95	602598	12.54
ZZZZZZ	194831	4.63	643255	5.74	399479	7.27	649328	8.54	623668	10.95	592343	12.54
MC36376-3	231765	4.63	771105	5.74	466648	7.27	759434	8.55	731699	10.96	689678	12.54
MC36376-4	232090	4.63	785399	5.74	481515	7.27	758873	8.55	746238	10.95	701123	12.54
MC36376-5	195330	4.63	661102	5.74	422228	7.27	686227	8.54	694014	10.96	647775	12.54
MC36376-6	200458	4.63	679724	5.74	426906	7.27	698116	8.55	694072	10.96	653280	12.54
ZZZZZZ	167141	4.63	554012	5.74	342005	7.27	577928	8.54	579620	10.95	539863	12.54

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW869-CC868	**Injection Date:**	01/19/15
Lab File ID:	W19901.D	**Injection Time:**	08:27
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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

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

Semivolatile Surrogate Recovery Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36376-1	W19893.D	31	21	66	61	62	83
MC36376-2	W19894.D	44	29	83	81	83	103
MC36376-3	W19923.D	38	27	82	73	79	100
MC36376-4	W19924.D	39	28	87	80	82	98
MC36376-5	W19925.D	43	30	86	79	82	96
MC36376-6	W19926.D	43	28	91	81	84	108
OP41632-BS	W19886.D	44	32	74	77	75	92
OP41632-MB	W19875.D	40	29	83	68	58	99
OP41632-MS	W19887.D	42	31	78	73	64	85
OP41632-MSD	W19888.D	37	28	67	66	58	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%

Semivolatile Surrogate Recovery Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36376-1	I93871.D	61	58	86
MC36376-2	I93872.D	80	75	106
MC36376-3	I93873.D	73	71	103
MC36376-4	I93874.D	79	75	102
MC36376-5	I93875.D	79	77	100
MC36376-6	I93876.D	81	77	109
OP41633-BS	I93861.D	77	70	95
OP41633-MB	I93860.D	68	55	101
OP41633-MS	I93862.D	71	59	88
OP41633-MSD	I93863.D	66	55	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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MB	BB61510.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-8

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

Blank Spike Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-BS	BB61511.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.059	83	60-140
106-93-4	1,2-Dibromoethane	0.071	0.056	79	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	110%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MS	BB61512.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
OP41725-MSD	BB61513.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
MC36343-3	BB61514.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36376-1, MC36376-2, MC36376-3, MC36376-4, MC36376-5, MC36376-6, MC36376-8

CAS No.	Compound	MC36343-3 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		0.0682	0.081	119	0.0689	0.077	112	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0682	0.065	95	0.0689	0.063	91	3	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
460-00-4	Bromofluorobenzene (S)	139%	119%	124%	36-173%
460-00-4	Bromofluorobenzene (S)	126%	106%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36376-1	BB61519.D	118	134
MC36376-2	BB61521.D	131	115
MC36376-3	BB61522.D	95	87
MC36376-4	BB61523.D	111	101
MC36376-5	BB61524.D	101	88
MC36376-6	BB61525.D	95	108
MC36376-8	BB61526.D	86	98
OP41725-BS	BB61511.D	118	110
OP41725-MB	BB61510.D	109	103
OP41725-MS	BB61512.D	139	126
OP41725-MSD	BB61513.D	119	106

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-ICC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61506.D	**Injection Time:**	11:18
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41725-MB	BB61510.D	01/20/15	13:15	4.81	4.93
OP41725-BS	BB61511.D	01/20/15	13:37	4.81	4.93
OP41725-MS	BB61512.D	01/20/15	13:59	4.81	4.93
OP41725-MSD	BB61513.D	01/20/15	14:22	4.81	4.93
MC36343-3	BB61514.D	01/20/15	14:44	4.81	4.93
ZZZZZZ	BB61515.D	01/20/15	15:06	4.81	4.93
ZZZZZZ	BB61516.D	01/20/15	15:29	4.81	4.93
ZZZZZZ	BB61517.D	01/20/15	15:52	4.81	4.93
ZZZZZZ	BB61518.D	01/20/15	16:14	4.81	4.93
MC36376-1	BB61519.D	01/20/15	16:36	4.81	4.93

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: MC36376
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-CC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61520.D	**Injection Time:**	16:58
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC36376-2	BB61521.D	01/20/15	17:20	4.81	4.93
MC36376-3	BB61522.D	01/20/15	17:42	4.81	4.93
MC36376-4	BB61523.D	01/20/15	18:04	4.81	4.93
MC36376-5	BB61524.D	01/20/15	18:27	4.81	4.93
MC36376-6	BB61525.D	01/20/15	18:49	4.81	4.93
MC36376-8	BB61526.D	01/20/15	19:11	4.81	4.93
ZZZZZZ	BB61527.D	01/20/15	19:34	4.81	4.93
ZZZZZZ	BB61528.D	01/20/15	19:57	4.81	4.93
ZZZZZZ	BB61529.D	01/20/15	20:20	4.81	4.93
ZZZZZZ	BB61530.D	01/20/15	20:43	4.81	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36413

Sampling Date: 01/14/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 107

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 03, 2016

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

RE: SGS Accutest Job # MC36413

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: MC36413

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36413-1	01/14/15	09:40	DCDH	01/15/15	AQ	Ground Water	MW6D-ROX-011415
MC36413-2	01/14/15	09:40	DCDH	01/15/15	AQ	Ground Water	MW6D-ROX-011415-DUP
MC36413-3	01/14/15	10:40	DCDH	01/15/15	AQ	Ground Water	MW6C-ROX-011415
MC36413-4	01/14/15	11:30	DCDH	01/15/15	AQ	Ground Water	MW6B-ROX-011415
MC36413-5	01/14/15	11:55	DCDH	01/15/15	AQ	Equipment Blank	MW6A-ROX-011415-EB
MC36413-6	01/14/15	12:25	DCDH	01/15/15	AQ	Ground Water	MW6A-ROX-011415
MC36413-7	01/14/15	15:10	DCDH	01/15/15	AQ	Ground Water	P54-ROX-011415
MC36413-8	01/14/15	00:00	DCDH	01/15/15	AQ	Trip Blank Water	TB-ROX-011415-HCL
MC36413-9	01/14/15	00:00	DCDH	01/15/15	AQ	Trip Blank Water	TB-ROX-011415-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC364 3

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 2:3 :30 PM

7 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 4/20 5 and were rece ved at SGS Accutest New Eng and on 0 / 5/20 5 proper y preserved, at 0 4 Deg C and ntact These Samp es rece ved a job number of MC364 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 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 8260C

Matrix: AQ **Batch ID:** MSL4003

- 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) MC36440-7MS, MC36440-7MSD were used as the QC samp es nd cated
- RPD(s) for MSD for ,4-D oxane, 2,2-D ch oropropane, 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, 4-Methy -2-pentanone (MIBK), Acetone, Bromomethane, Ch oroethane, Ch oromethane, V ny ch or de are outs de contro m ts for samp e MC36440-7MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n, ,4-D oxane: 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
- MSL4003-BS for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC36440-7MS/MSD for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 66

- 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) MC36400- MS, MC36400- MSD were used as the QC samp es nd cated
- OP4 66 -MS/MSD Recovery(s) for Benzo c Ac d 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
- In t a ca brat on ver f cat on MSF3446-ICV3446 for Hexach orocyc opentad ene exc eed 30% D fference
- RPD(s) for MSD for 2,4-D methy pheno , 4-N tropheno are outs de contro m ts for samp e OP4 66 -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 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 662

- 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) MC36400-2MS, MC36400-2MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 725

- 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) MC36343-3MS, MC36343-3MSD 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

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(MC364 3)

Summary of Hits

Job Number: MC36413
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36413-1	MW6D-ROX-011415					
Anthracene		0.026 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Fluoranthene		0.031 J	0.11	0.0080	ug/l	SW846 8270D BY SIM
Fluorene		0.018 J	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.015 J	2.2	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.033 J	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.033 J	0.054	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.027 J	0.11	0.0092	ug/l	SW846 8270D BY SIM
MC36413-2	MW6D-ROX-011415-DUP					
Di-n-butyl phthalate		0.27 J	5.6	0.19	ug/l	SW846 8270D
MC36413-3	MW6C-ROX-011415					
Methyl Tert Butyl Ether		3.7	1.0	0.22	ug/l	SW846 8260C
Acenaphthene		0.017 J	0.11	0.0083	ug/l	SW846 8270D BY SIM
Anthracene		0.024 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Fluoranthene		0.022 J	0.11	0.0082	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.028 J	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.025 J	0.056	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.021 J	0.11	0.0094	ug/l	SW846 8270D BY SIM
MC36413-4	MW6B-ROX-011415					
Methyl Tert Butyl Ether		5.0	1.0	0.22	ug/l	SW846 8260C
Acenaphthylene		0.016 J	0.11	0.0091	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.017 J	2.2	0.012	ug/l	SW846 8270D BY SIM
MC36413-5	MW6A-ROX-011415-EB					
Di-n-butyl phthalate		0.29 J	5.4	0.19	ug/l	SW846 8270D
Fluoranthene		0.017 J	0.11	0.0080	ug/l	SW846 8270D BY SIM
MC36413-6	MW6A-ROX-011415					
Acenaphthene		0.089 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.040 J	0.11	0.0088	ug/l	SW846 8270D BY SIM
Anthracene		0.060 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluoranthene		0.037 J	0.11	0.0078	ug/l	SW846 8270D BY SIM
Fluorene		0.076 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Phenanthrene		0.046 J	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.027 J	0.11	0.0089	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36413
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36413-7	**P54-ROX-011415**					
Fluoranthene		0.021 J	0.11	0.0082	ug/l	SW846 8270D BY SIM
Phenanthrene		0.020 J	0.056	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.030 J	0.11	0.0094	ug/l	SW846 8270D BY SIM
MC36413-8	**TB-ROX-011415-HCL**					
No hits reported in this sample.						
MC36413-9	**TB-ROX-011415-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6D-ROX-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90446.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW6D-ROX-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		67-134%
2037-26-5	Toluene-D8	96%		79-121%
460-00-4	4-Bromofluorobenzene	105%		71-133%

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

(a) 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-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79418.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	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-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	49%		15-110%
4165-62-2	Phenol-d5	34%		15-110%
118-79-6	2,4,6-Tribromophenol	102%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	109%		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-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93904.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
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	0.0082	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0091	ug/l	
120-12-7	Anthracene	0.026	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.054	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.031	0.11	0.0080	ug/l	J
86-73-7	Fluorene	0.018	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.015	2.2	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	0.033	2.2	0.012	ug/l	J
85-01-8	Phenanthrene	0.033	0.054	0.012	ug/l	J
129-00-0	Pyrene	0.027	0.11	0.0092	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	115%		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-011415		
Lab Sample ID:	MC36413-1	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61527.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	109%		36-173%
460-00-4	Bromofluorobenzene (S)	93%		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-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90447.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW6D-ROX-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW6D-ROX-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	101%		71-133%

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

(a) 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-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79419.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.6	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	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:	MW6D-ROX-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	46%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	93%		15-110%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	76%		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:	MW6D-ROX-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93905.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
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	0.0083	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0093	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0082	ug/l	
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	108%		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-011415-DUP		
Lab Sample ID:	MC36413-2	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61528.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	131%		36-173%
460-00-4	Bromofluorobenzene (S)	123%		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-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90448.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.7	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenzene	104%		71-133%

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

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

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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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79420.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	33%		15-110%
118-79-6	2,4,6-Tribromophenol	108%		15-110%
4165-60-0	Nitrobenzene-d5	89%		30-130%
321-60-8	2-Fluorobiphenyl	89%		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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93906.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
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	0.017	0.11	0.0083	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.0093	ug/l	
120-12-7	Anthracene	0.024	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.056	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	0.022	0.11	0.0082	ug/l	J
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	0.028	2.2	0.012	ug/l	J
85-01-8	Phenanthrene	0.025	0.056	0.012	ug/l	J
129-00-0	Pyrene	0.021	0.11	0.0094	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	115%		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:	MW6C-ROX-011415		
Lab Sample ID:	MC36413-3	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61529.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	129%		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:	MW6B-ROX-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90449.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	MW6B-ROX-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.0	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-134%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenzene	101%		71-133%

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

(a) Continuing 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:	MW6B-ROX-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79421.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

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Report of Analysis

Client Sample ID:	MW6B-ROX-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	105%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	108%		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:	MW6B-ROX-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93907.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
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	0.0082	ug/l	
208-96-8	Acenaphthylene	0.016	0.11	0.0091	ug/l	J
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0080	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	0.017	2.2	0.012	ug/l	J
85-01-8	Phenanthrene	ND	0.054	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	115%		30-130%

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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-011415		
Lab Sample ID:	MC36413-4	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61530.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	105%		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:	MW6A-ROX-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90434.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW6A-ROX-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	98%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

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

(a) 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-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79422.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.29	5.4	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	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-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	26%		15-110%
118-79-6	2,4,6-Tribromophenol	99%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	110%		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:	MW6A-ROX-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93911.D	1	01/20/15	MR	01/15/15	OP41662	MSI3503
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	0.0082	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0091	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.017	0.11	0.0080	ug/l	J
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	114%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011415-EB		
Lab Sample ID:	MC36413-5	**Date Sampled:**	01/14/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61532.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	107%		36-173%
460-00-4	Bromofluorobenzene (S)	109%		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:	MW6A-ROX-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90450.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW6A-ROX-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-134%
2037-26-5	Toluene-D8	97%		79-121%
460-00-4	4-Bromofluorobenzene	102%		71-133%

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

(a) 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
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Report of Analysis

Client Sample ID:	MW6A-ROX-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79423.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	33%		15-110%
118-79-6	2,4,6-Tribromophenol	107%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	87%		30-130%
1718-51-0	Terphenyl-d14	104%		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-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93912.D	1	01/20/15	MR	01/15/15	OP41662	MSI3503
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	0.089	0.11	0.0079	ug/l	J
208-96-8	Acenaphthylene	0.040	0.11	0.0088	ug/l	J
120-12-7	Anthracene	0.060	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.037	0.11	0.0078	ug/l	J
86-73-7	Fluorene	0.076	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.046	0.053	0.011	ug/l	J
129-00-0	Pyrene	0.027	0.11	0.0089	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	112%		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-011415		
Lab Sample ID:	MC36413-6	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61533.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	147%		36-173%
460-00-4	Bromofluorobenzene (S)	161%		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-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90451.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	102%		71-133%

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

(a) 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:	P54-ROX-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79424.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	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-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	43%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	91%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	110%		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-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93913.D	1	01/20/15	MR	01/15/15	OP41662	MSI3503
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	0.0083	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0093	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	0.021	0.11	0.0082	ug/l	J
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.012	ug/l	
85-01-8	Phenanthrene	0.020	0.056	0.012	ug/l	J
129-00-0	Pyrene	0.030	0.11	0.0094	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	115%		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-011415		
Lab Sample ID:	MC36413-7	**Date Sampled:**	01/14/15
Matrix:	AQ - Ground Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61534.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	74%		36-173%
460-00-4	Bromofluorobenzene (S)	88%		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-011415-HCL		
Lab Sample ID:	MC36413-8	**Date Sampled:**	01/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90433.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-ROX-011415-HCL		
Lab Sample ID:	MC36413-8	**Date Sampled:**	01/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011415-HCL		
Lab Sample ID:	MC36413-8	**Date Sampled:**	01/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	98%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

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

(a) 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-011415-ST		
Lab Sample ID:	MC36413-9	**Date Sampled:**	01/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/15/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61535.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	90%		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

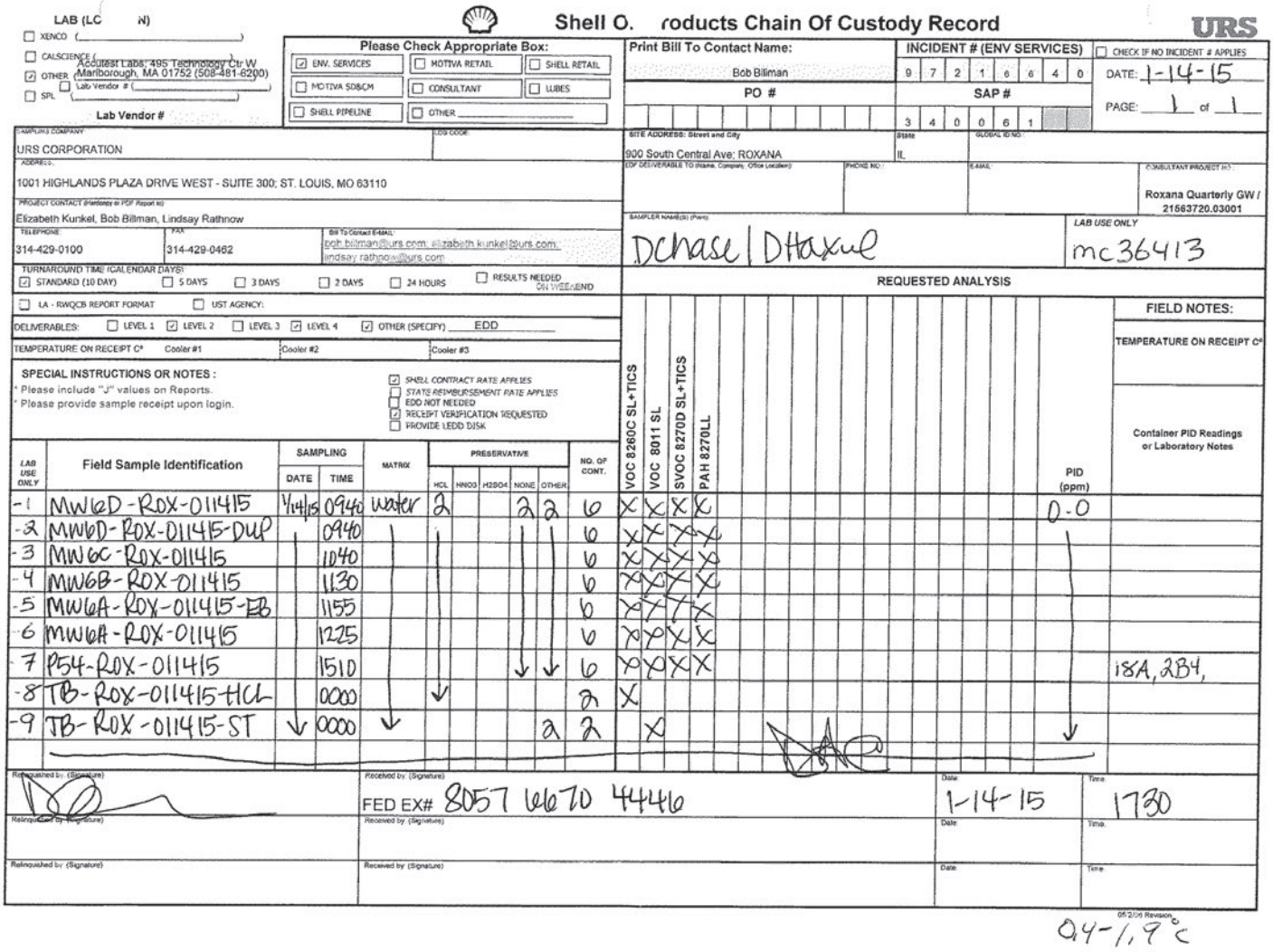
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



LAB (LC N)

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

Lab Vendor #

Shell O. roducts 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) 9 7 2 1 6 6 4 0

SAP # 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1-14-15

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 / 21563720.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com

SAMPLER NAME(S) (Print): DChase | DHaxul

LAB USE ONLY: mc36413

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW6D-ROX-011415	1/14/15	0940	water	2			2	2	6	X	X	X	X	0.0	
-2	MW6D-ROX-011415-DUP		0940							6	X	X	X	X		
-3	MW6C-ROX-011415		1040							6	X	X	X	X		
-4	MW6B-ROX-011415		1130							6	X	X	X	X		
-5	MW6A-ROX-011415-EB		1155							6	X	X	X	X		
-6	MW6A-ROX-011415		1225							6	X	X	X	X		
-7	P54-ROX-011415		1510							6	X	X	X	X		18A, 2B4,
-8	TB-ROX-011415-HCL		0000							2	X					
-9	TB-ROX-011415-ST		0000						2	2		X				

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX# 8057 6670 4446	1-14-15	1730
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2/06 Revision

0.4-1.9°C

5.1

5

MC36413: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36413 **Client:** URS **Project:** 900 SOUTH CENTRAL AVE

Date / Time Received: 1/15/2015 10 15 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 4/0 4) #2 (1 9/1 9)

Cooler Security	Y or N		Y or N
1 Custody Seals Present	☑ ☐	3 COC Present	☑ ☐
2 Custody Seals ntact	☑ ☐	4 Smpl Dates/ ime OK	☑ ☐

Cooler Temperature	Y or N
1 emp criteria achieved	☑ ☐
2 hermometer D	G1
3 Cooler media	ce (Bag)
4 No Coolers	2

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

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 H	☑ ☐
2 All containers accounted or	☑ ☐
3 Condition o sample	ntact

Sample Integrity - Instructions	Y or N	N/A
1 Analysis requested is clear	☑ ☐	
2 Bottles received or unspeci ied tests	☐ ☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

MC36413: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36413

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36413-1 Collected: 14-JAN-15 09:40 By: DCDH Received: 15-JAN-15 By: MW6D-ROX-011415						
MC36413-1	SW846 8270D	19-JAN-15 14:56	KD	15-JAN-15	PA	AB8270SL+
MC36413-1	SW846 8270D BY SIM	19-JAN-15 17:51	MR	15-JAN-15	PA	B8270SIMSL
MC36413-1	SW846 8011	20-JAN-15 19:34	NK	19-JAN-15	FT	V8011SL
MC36413-1	SW846 8260C	23-JAN-15 20:32	GK			V8260SL+
MC36413-2 Collected: 14-JAN-15 09:40 By: DCDH Received: 15-JAN-15 By: MW6D-ROX-011415-DUP						
MC36413-2	SW846 8270D	19-JAN-15 15:20	KD	15-JAN-15	PA	AB8270SL+
MC36413-2	SW846 8270D BY SIM	19-JAN-15 18:15	MR	15-JAN-15	PA	B8270SIMSL
MC36413-2	SW846 8011	20-JAN-15 19:57	NK	19-JAN-15	FT	V8011SL
MC36413-2	SW846 8260C	23-JAN-15 21:02	GK			V8260SL+
MC36413-3 Collected: 14-JAN-15 10:40 By: DCDH Received: 15-JAN-15 By: MW6C-ROX-011415						
MC36413-3	SW846 8270D	19-JAN-15 15:44	KD	15-JAN-15	PA	AB8270SL+
MC36413-3	SW846 8270D BY SIM	19-JAN-15 18:38	MR	15-JAN-15	PA	B8270SIMSL
MC36413-3	SW846 8011	20-JAN-15 20:20	NK	19-JAN-15	FT	V8011SL
MC36413-3	SW846 8260C	23-JAN-15 21:49	GK			V8260SL+
MC36413-4 Collected: 14-JAN-15 11:30 By: DCDH Received: 15-JAN-15 By: MW6B-ROX-011415						
MC36413-4	SW846 8270D	19-JAN-15 16:08	KD	15-JAN-15	PA	AB8270SL+
MC36413-4	SW846 8270D BY SIM	19-JAN-15 19:02	MR	15-JAN-15	PA	B8270SIMSL
MC36413-4	SW846 8011	20-JAN-15 20:43	NK	19-JAN-15	FT	V8011SL
MC36413-4	SW846 8260C	23-JAN-15 22:19	GK			V8260SL+
MC36413-5 Collected: 14-JAN-15 11:55 By: DCDH Received: 15-JAN-15 By: MW6A-ROX-011415-EB						
MC36413-5	SW846 8270D	19-JAN-15 16:32	KD	15-JAN-15	PA	AB8270SL+
MC36413-5	SW846 8270D BY SIM	20-JAN-15 08:22	MR	15-JAN-15	PA	B8270SIMSL
MC36413-5	SW846 8011	20-JAN-15 21:30	NK	19-JAN-15	FT	V8011SL
MC36413-5	SW846 8260C	23-JAN-15 14:26	GK			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36413

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36413-6 Collected: 14-JAN-15 12:25 By: DCDH Received: 15-JAN-15 By: MW6A-ROX-011415						
MC36413-6	SW846 8270D	19-JAN-15 16:56	KD	15-JAN-15	PA	AB8270SL+
MC36413-6	SW846 8270D BY SIM	20-JAN-15 08:45	MR	15-JAN-15	PA	B8270SIMSL
MC36413-6	SW846 8011	20-JAN-15 21:52	NK	19-JAN-15	FT	V8011SL
MC36413-6	SW846 8260C	23-JAN-15 22:49	GK			V8260SL+
MC36413-7 Collected: 14-JAN-15 15:10 By: DCDH Received: 15-JAN-15 By: P54-ROX-011415						
MC36413-7	SW846 8270D	19-JAN-15 17:20	KD	15-JAN-15	PA	AB8270SL+
MC36413-7	SW846 8270D BY SIM	20-JAN-15 09:09	MR	15-JAN-15	PA	B8270SIMSL
MC36413-7	SW846 8011	20-JAN-15 22:16	NK	19-JAN-15	FT	V8011SL
MC36413-7	SW846 8260C	23-JAN-15 23:19	GK			V8260SL+
MC36413-8 Collected: 14-JAN-15 00:00 By: DCDH Received: 15-JAN-15 By: TB-ROX-011415-HCL						
MC36413-8	SW846 8260C	23-JAN-15 13:56	GK			V8260SL+
MC36413-9 Collected: 14-JAN-15 00:00 By: DCDH Received: 15-JAN-15 By: TB-ROX-011415-ST						
MC36413-9	SW846 8011	20-JAN-15 22:39	NK	19-JAN-15	FT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/15/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36413-1.2	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-1.2	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-1.3	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-1.3	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-1.3	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-1.3	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-1.3	Scott Parsick		04/15/15 12:23	Disposed
MC36413-1.5	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-1.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-2.1	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-2.1	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-2.3	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-2.3	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-2.3	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-2.3	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-2.3	Scott Parsick		04/15/15 12:23	Disposed
MC36413-2.6	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-2.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-3.2	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-3.2	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-3.3	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-3.3	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-3.3	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-3.3	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-3.3	Scott Parsick		04/15/15 12:23	Disposed
MC36413-3.6	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-3.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-4.2	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-4.2	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-4.4	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-4.4	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-4.4	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-4.4	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-4.4	Scott Parsick		04/15/15 12:23	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/15/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36413-4.5	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-4.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-5.1	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-5.1	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-5.3	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-5.3	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-5.3	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-5.3	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-5.3	Scott Parsick		04/15/15 12:23	Disposed
MC36413-5.6	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-5.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-6.2	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-6.2	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-6.4	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-6.4	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-6.4	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-6.4	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-6.4	Scott Parsick		04/15/15 12:23	Disposed
MC36413-6.6	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-6.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-7.1	Walk In Ref #22	Forrest Thompson	01/15/15 18:55	Retrieve from Storage
MC36413-7.1	Forrest Thompson		03/17/15 21:18	Depleted
MC36413-7.4	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-7.4	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-7.4	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-7.4	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36413-7.4	Scott Parsick		04/15/15 12:23	Disposed
MC36413-7.6	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-7.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36413-8.2	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36413-8.2	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36413-8.2	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36413-8.2	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/15/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36413-8.2	Scott Parsick		04/15/15 12:23	Disposed
MC36413-9.1	VOC Ref #2	Marc Tahtamoni	01/19/15 19:39	Retrieve from Storage
MC36413-9.1	Marc Tahtamoni		02/12/15 20:37	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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

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

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	56.1	112	10-147
107-02-8	Acrolein	250	187	75	10-170
107-13-1	Acrylonitrile	50	43.8	88	51-154
71-43-2	Benzene	50	45.4	91	74-127
108-86-1	Bromobenzene	50	49.8	100	77-124
74-97-5	Bromochloromethane	50	48.5	97	76-128
75-27-4	Bromodichloromethane	50	50.1	100	68-156
75-25-2	Bromoform	50	51.3	103	70-134
74-83-9	Bromomethane	50	59.9	120	14-180
78-93-3	2-Butanone (MEK)	50	63.5	127	23-148
104-51-8	n-Butylbenzene	50	52.0	104	75-140
135-98-8	sec-Butylbenzene	50	48.2	96	74-139
98-06-6	tert-Butylbenzene	50	48.7	97	71-141
75-15-0	Carbon disulfide	50	43.2	86	45-156
56-23-5	Carbon tetrachloride	50	50.7	101	67-152
108-90-7	Chlorobenzene	50	46.3	93	76-121
75-00-3	Chloroethane	50	54.1	108	54-177
110-75-8	2-Chloroethyl vinyl ether	50	60.1	120	36-178
67-66-3	Chloroform	50	47.4	95	68-139
74-87-3	Chloromethane	50	52.6	105	33-171
95-49-8	o-Chlorotoluene	50	47.3	95	76-131
106-43-4	p-Chlorotoluene	50	47.8	96	76-130
124-48-1	Dibromochloromethane	50	51.3	103	82-130
95-50-1	1,2-Dichlorobenzene	50	47.6	95	81-127
541-73-1	1,3-Dichlorobenzene	50	45.9	92	80-124
106-46-7	1,4-Dichlorobenzene	50	47.2	94	78-124
75-71-8	Dichlorodifluoromethane	50	49.9	100	10-185
75-34-3	1,1-Dichloroethane	50	43.8	88	69-140
107-06-2	1,2-Dichloroethane	50	51.3	103	64-149
75-35-4	1,1-Dichloroethene	50	42.4	85	58-142
156-59-2	cis-1,2-Dichloroethene	50	47.0	94	68-129
156-60-5	trans-1,2-Dichloroethene	50	46.4	93	61-133
78-87-5	1,2-Dichloropropane	50	47.5	95	74-135
142-28-9	1,3-Dichloropropane	50	53.9	108	76-121
594-20-7	2,2-Dichloropropane	50	57.3	115	62-157
563-58-6	1,1-Dichloropropene	50	45.5	91	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	59.8	120	75-138
10061-02-6	trans-1,3-Dichloropropene	50	49.8	100	70-150
123-91-1	1,4-Dioxane	250	197	79	52-165
97-63-2	Ethyl methacrylate	50	51.3	103	62-138
100-41-4	Ethylbenzene	50	48.5	97	75-129
87-68-3	Hexachlorobutadiene	50	55.4	111	59-150
591-78-6	2-Hexanone	50	64.8	130	28-137
98-82-8	Isopropylbenzene	50	47.1	94	76-138
99-87-6	p-Isopropyltoluene	50	51.0	102	77-137
1634-04-4	Methyl Tert Butyl Ether	50	58.7	117	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.8	104	48-153
74-95-3	Methylene bromide	50	47.2	94	74-134
75-09-2	Methylene chloride	50	46.8	94	62-134
91-20-3	Naphthalene	50	46.0	92	32-196
103-65-1	n-Propylbenzene	50	46.7	93	74-138
100-42-5	Styrene	50	51.3	103	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	52.4	105	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	47.2	94	64-132
127-18-4	Tetrachloroethene	50	47.1	94	68-133
108-88-3	Toluene	50	47.1	94	75-134
87-61-6	1,2,3-Trichlorobenzene	50	54.7	109	51-169
120-82-1	1,2,4-Trichlorobenzene	50	54.5	109	62-146
71-55-6	1,1,1-Trichloroethane	50	49.6	99	66-152
79-00-5	1,1,2-Trichloroethane	50	49.0	98	70-138
79-01-6	Trichloroethene	50	46.4	93	70-131
75-69-4	Trichlorofluoromethane	50	53.0	106	43-168
96-18-4	1,2,3-Trichloropropane	50	50.8	102	61-134
95-63-6	1,2,4-Trimethylbenzene	50	47.4	95	76-133
108-67-8	1,3,5-Trimethylbenzene	50	48.1	96	72-131
108-05-4	Vinyl Acetate	50	104	208* [a]	10-200
75-01-4	Vinyl chloride	50	53.2	106	32-182
	m,p-Xylene	100	90.7	91	74-129
95-47-6	o-Xylene	50	44.5	89	77-127
1330-20-7	Xylene (total)	150	135	90	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	99%	79-121%
460-00-4	4-Bromofluorobenzene	96%	71-133%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	MC36440-7 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	38.4	77	50	24.0	48	46* [a]	10-135/30
107-02-8	Acrolein	ND		250	168	67	250	150	60	11	10-165/30
107-13-1	Acrylonitrile	ND		50	52.2	104	50	42.3	85	21	43-165/30
71-43-2	Benzene	3.0		50	48.1	90	50	52.6	99	9	69-136/30
108-86-1	Bromobenzene	ND		50	47.2	94	50	54.9	110	15	74-127/30
74-97-5	Bromochloromethane	ND		50	47.0	94	50	51.4	103	9	73-134/30
75-27-4	Bromodichloromethane	ND		50	47.8	96	50	55.3	111	15	63-163/30
75-25-2	Bromoform	ND		50	55.4	111	50	49.8	100	11	61-140/30
74-83-9	Bromomethane	ND		50	36.0	72	50	78.3	157	74* [a]	10-175/30
78-93-3	2-Butanone (MEK)	ND		50	46.4	93	50	30.9	62	40* [a]	19-130/30
104-51-8	n-Butylbenzene	ND		50	49.4	99	50	55.8	112	12	65-147/30
135-98-8	sec-Butylbenzene	1.4	J	50	47.7	93	50	54.7	107	14	72-143/30
98-06-6	tert-Butylbenzene	5.9		50	51.5	91	50	60.2	109	16	66-146/30
75-15-0	Carbon disulfide	ND		50	43.6	87	50	53.2	106	20	33-170/30
56-23-5	Carbon tetrachloride	ND		50	46.3	93	50	58.4	117	23	61-163/30
108-90-7	Chlorobenzene	ND		50	46.3	93	50	52.4	105	12	73-127/30
75-00-3	Chloroethane	ND		50	47.2	94	50	66.5	133	34* [a]	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	71.8	60	50	102	121	35* [a]	10-200/30
67-66-3	Chloroform	ND		50	46.7	93	50	54.1	108	15	65-146/30
74-87-3	Chloromethane	ND		50	37.3	75	50	57.7	115	43* [a]	23-176/30
95-49-8	o-Chlorotoluene	ND		50	44.7	89	50	52.5	105	16	67-142/30
106-43-4	p-Chlorotoluene	ND		50	45.7	91	50	53.8	108	16	70-137/30
124-48-1	Dibromochloromethane	ND		50	52.3	105	50	52.8	106	1	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		50	44.9	90	50	49.6	99	10	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		50	44.1	88	50	51.1	102	15	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		50	43.8	88	50	50.5	101	14	75-126/30
75-71-8	Dichlorodifluoromethane	ND		50	45.2	90	50	55.5	111	20	10-184/30
75-34-3	1,1-Dichloroethane	ND		50	42.8	86	50	50.4	101	16	66-148/30
107-06-2	1,2-Dichloroethane	ND		50	53.5	107	50	54.3	109	1	59-157/30
75-35-4	1,1-Dichloroethene	ND		50	41.4	83	50	48.9	98	17	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		50	46.4	93	50	54.3	109	16	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		50	41.2	82	50	51.5	103	22	57-142/30
78-87-5	1,2-Dichloropropane	ND		50	47.7	95	50	52.7	105	10	70-142/30
142-28-9	1,3-Dichloropropane	ND		50	54.2	108	50	52.9	106	2	73-126/30
594-20-7	2,2-Dichloropropane	ND		50	32.6	65	50	63.0	126	64* [a]	45-168/30
563-58-6	1,1-Dichloropropene	ND		50	47.1	94	50	51.7	103	9	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Compound	MC36440-7 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	61.0	122	50	62.5	125	2	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	53.3	107	50	47.5	95	12	64-153/30
123-91-1	1,4-Dioxane	ND		250	245	98	250	151	60	47* [a]	38-165/30
97-63-2	Ethyl methacrylate	ND		50	61.2	122	50	50.5	101	19	54-149/30
100-41-4	Ethylbenzene	ND		50	49.2	98	50	54.8	110	11	67-141/30
87-68-3	Hexachlorobutadiene	ND		50	53.9	108	50	57.6	115	7	52-152/30
591-78-6	2-Hexanone	ND		50	54.3	109	50	36.1	72	40* [a]	25-118/30
98-82-8	Isopropylbenzene	5.7		50	49.7	88	50	59.1	107	17	71-144/30
99-87-6	p-Isopropyltoluene	ND		50	49.1	98	50	56.1	112	13	72-141/30
1634-04-4	Methyl Tert Butyl Ether	21.5		50	86.0	129	50	73.2	103	16	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	66.3	133	50	45.5	91	37* [a]	46-158/30
74-95-3	Methylene bromide	ND		50	46.6	93	50	47.7	95	2	70-141/30
75-09-2	Methylene chloride	ND		50	43.4	87	50	50.4	101	15	58-143/30
91-20-3	Naphthalene	ND		50	49.3	99	50	40.8	82	19	19-200/30
103-65-1	n-Propylbenzene	1.8	J	50	46.1	89	50	54.4	105	17	67-145/30
100-42-5	Styrene	ND		50	51.6	103	50	57.0	114	10	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	52.4	105	50	58.6	117	11	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	48.2	96	50	42.8	86	12	61-137/30
127-18-4	Tetrachloroethene	ND		50	47.5	95	50	53.4	107	12	64-139/30
108-88-3	Toluene	1.4		50	50.3	98	50	54.4	106	8	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	56.7	113	50	52.4	105	8	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.2	106	50	53.8	108	1	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		50	46.5	93	50	57.6	115	21	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		50	52.0	104	50	49.9	100	4	65-145/30
79-01-6	Trichloroethene	ND		50	48.4	97	50	53.5	107	10	64-139/30
75-69-4	Trichlorofluoromethane	ND		50	49.9	100	50	59.1	118	17	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		50	53.0	106	50	44.6	89	17	53-137/30
95-63-6	1,2,4-Trimethylbenzene	0.37	J	50	45.6	90	50	53.0	105	15	66-142/30
108-67-8	1,3,5-Trimethylbenzene	0.31	J	50	47.3	94	50	54.6	109	14	68-135/30
108-05-4	Vinyl Acetate	ND		50	147	294* [b]	50	137	274* [b]	7	10-200/30
75-01-4	Vinyl chloride	ND		50	43.4	87	50	61.0	122	34* [a]	25-187/30
	m,p-Xylene	7.6		100	97.6	90	100	109	101	11	67-138/30
95-47-6	o-Xylene	1.5		50	46.2	89	50	52.1	101	12	72-135/30
1330-20-7	Xylene (total)	9.0		150	144	90	150	161	101	11	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-8

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-7	Limits
1868-53-7	Dibromofluoromethane	100%	102%	102%	67-134%
2037-26-5	Toluene-D8	102%	100%	100%	79-121%
460-00-4	4-Bromofluorobenzene	93%	98%	98%	71-133%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4003-CC4003	**Injection Date:**	01/23/15
Lab File ID:	L90428.D	**Injection Time:**	11:24
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	307722	8.10	453746	8.91	224292	12.11	222867	14.65	56261	5.85
Upper Limit [a]	615444	8.60	907492	9.41	448584	12.61	445734	15.15	112522	6.35
Lower Limit [b]	153861	7.60	226873	8.41	112146	11.61	111434	14.15	28131	5.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4003-BS	307722	8.10	453746	8.91	224292	12.11	222867	14.65	56261	5.85
MSL4003-MB	296768	8.10	445765	8.92	204091	12.11	188323	14.65	53773	5.92
ZZZZZZ	307934	8.10	455162	8.92	211700	12.11	195581	14.65	55128	5.92
ZZZZZZ	299047	8.10	448791	8.92	209102	12.11	188539	14.65	58185	5.92
MC36413-8	293973	8.10	433597	8.92	205173	12.11	185430	14.65	52746	5.93
MC36413-5	291671	8.11	429873	8.92	193677	12.12	175480	14.65	43805	5.93
ZZZZZZ	291464	8.11	429982	8.92	200295	12.11	185308	14.65	55305	5.91
ZZZZZZ	295372	8.11	427685	8.92	196977	12.12	170101	14.65	31904	5.96
MC36440-7	263254	8.10	387520	8.92	190431	12.11	187319	14.65	56636	5.88
ZZZZZZ	267219	8.10	403916	8.92	192428	12.11	175927	14.65	45494	5.91
ZZZZZZ	254936	8.11	375776	8.93	171850	12.11	161556	14.65	50862	5.92
ZZZZZZ	294937	8.10	437158	8.92	202063	12.12	183772	14.65	39488	5.93
ZZZZZZ	249652	8.10	368985	8.92	180495	12.11	183010	14.65	68890	5.89
ZZZZZZ	287533	8.10	423194	8.92	196211	12.12	175134	14.65	30035	5.96
MC36440-7MS	290245	8.10	420139	8.91	214067	12.10	225440	14.65	77080	5.84
MC36440-7MSD	270715	8.10	402794	8.92	199143	12.11	197851	14.65	37476	5.86
ZZZZZZ	301797	8.10	439853	8.92	206637	12.11	205164	14.65	83754	5.89
MC36413-1	275437	8.11	404801	8.92	180633	12.12	161523	14.65	28398	5.96
MC36413-2	306612	8.10	451810	8.92	206347	12.11	200766	14.65	63912	5.91
MC36413-3	292321	8.11	433191	8.92	201626	12.12	190287	14.65	66163	5.90
MC36413-4	293966	8.10	426144	8.92	201236	12.11	194754	14.65	66470	5.89
MC36413-6	286413	8.10	427997	8.92	195215	12.11	182754	14.65	55940	5.91
MC36413-7	281366	8.10	414239	8.92	194524	12.11	179569	14.65	52491	5.92

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36413-1	L90446.D	101	96	105
MC36413-2	L90447.D	102	99	101
MC36413-3	L90448.D	104	100	104
MC36413-4	L90449.D	103	100	101
MC36413-5	L90434.D	102	98	104
MC36413-6	L90450.D	105	97	102
MC36413-7	L90451.D	104	99	102
MC36413-8	L90433.D	104	98	102
MC36440-7MS	L90443.D	100	102	93
MC36440-7MSD	L90444.D	102	100	98
MSL4003-BS	L90428.D	100	99	96
MSL4003-MB	L90430.D	103	97	104

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-MB	F79410.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-MB	F79410.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	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	31%	15-110%
118-79-6	2,4,6-Tribromophenol	98%	15-110%
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	76%	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	

Method Blank Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41662-MB	I93895.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	114%	30-130%

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-BS	F79411.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.3	37	30-130
95-57-8	2-Chlorophenol	50	40.7	81	30-130
59-50-7	4-Chloro-3-methyl phenol	50	44.7	89	30-130
120-83-2	2,4-Dichlorophenol	50	45.9	92	30-130
105-67-9	2,4-Dimethylphenol	50	38.9	78	30-130
51-28-5	2,4-Dinitrophenol	50	46.4	93	30-130
534-52-1	4,6-Dinitro-o-cresol	50	54.6	109	30-130
95-48-7	2-Methylphenol	50	36.9	74	30-130
	3&4-Methylphenol	100	69.1	69	30-130
88-75-5	2-Nitrophenol	50	46.3	93	30-130
100-02-7	4-Nitrophenol	50	32.6	65	30-130
87-86-5	Pentachlorophenol	50	51.1	102	30-130
108-95-2	Phenol	50	17.2	34	30-130
95-95-4	2,4,5-Trichlorophenol	50	50.1	100	30-130
88-06-2	2,4,6-Trichlorophenol	50	47.0	94	30-130
62-53-3	Aniline	50	32.8	66	40-140
101-55-3	4-Bromophenyl phenyl ether	50	47.6	95	40-140
85-68-7	Butyl benzyl phthalate	50	50.9	102	40-140
100-51-6	Benzyl Alcohol	50	38.3	77	40-140
91-58-7	2-Chloronaphthalene	50	46.9	94	40-140
106-47-8	4-Chloroaniline	50	41.8	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	44.3	89	40-140
111-44-4	bis(2-Chloroethyl)ether	50	41.2	82	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	50.9	102	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.6	93	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.1	90	40-140
121-14-2	2,4-Dinitrotoluene	50	48.0	96	40-140
606-20-2	2,6-Dinitrotoluene	50	47.0	94	40-140
91-94-1	3,3'-Dichlorobenzidine	50	55.0	110	40-140
132-64-9	Dibenzofuran	50	46.2	92	40-140
84-74-2	Di-n-butyl phthalate	50	48.6	97	40-140
117-84-0	Di-n-octyl phthalate	50	51.5	103	40-140
84-66-2	Diethyl phthalate	50	47.4	95	40-140
131-11-3	Dimethyl phthalate	50	47.5	95	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	50.2	100	40-140
118-74-1	Hexachlorobenzene	50	46.9	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-BS	F79411.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	26.0	52	40-140
67-72-1	Hexachloroethane	50	40.2	80	40-140
78-59-1	Isophorone	50	39.6	79	40-140
88-74-4	2-Nitroaniline	50	50.3	101	40-140
99-09-2	3-Nitroaniline	50	48.8	98	40-140
100-01-6	4-Nitroaniline	50	51.2	102	40-140
98-95-3	Nitrobenzene	50	39.9	80	40-140
62-75-9	n-Nitrosodimethylamine	50	23.8	48	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	44.5	89	40-140
86-30-6	N-Nitrosodiphenylamine	50	44.6	89	40-140
110-86-1	Pyridine	50	20.4	41	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	51%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	104%	15-110%
4165-60-0	Nitrobenzene-d5	90%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	107%	30-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41662-BS	I93896.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
OP41662-BSD	I93897.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	38.8	78	41.6	83	7	45-120/30
208-96-8	Acenaphthylene	50	39.7	79	43.0	86	8	31-120/30
120-12-7	Anthracene	50	40.7	81	42.5	85	4	51-120/30
56-55-3	Benzo(a)anthracene	50	48.3	97	50.4	101	4	46-139/30
50-32-8	Benzo(a)pyrene	50	47.9	96	49.8	100	4	39-125/30
205-99-2	Benzo(b)fluoranthene	50	44.7	89	50.7	101	13	41-137/30
191-24-2	Benzo(g,h,i)perylene	50	47.1	94	48.9	98	4	47-132/30
207-08-9	Benzo(k)fluoranthene	50	45.0	90	42.9	86	5	46-131/30
218-01-9	Chrysene	50	44.4	89	46.5	93	5	43-129/30
53-70-3	Dibenzo(a,h)anthracene	50	45.4	91	47.8	96	5	42-138/30
206-44-0	Fluoranthene	50	45.6	91	47.8	96	5	47-134/30
86-73-7	Fluorene	50	39.3	79	41.8	84	6	45-123/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.9	94	49.0	98	4	41-137/30
90-12-0	1-Methylnaphthalene	50	36.9	74	40.1	80	8	39-120/30
91-57-6	2-Methylnaphthalene	50	37.8	76	41.1	82	8	22-126/30
85-01-8	Phenanthrene	50	39.9	80	41.3	83	3	51-120/30
129-00-0	Pyrene	50	46.3	93	48.5	97	5	44-131/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	81%	87%	30-130%
321-60-8	2-Fluorobiphenyl	73%	84%	30-130%
1718-51-0	Terphenyl-d14	114%	117%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-MS	F79413.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
OP41661-MSD	F79414.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
MC36400-1	F79415.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	MC36400-1 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		50	10.2	20* [a]	50	10.8	22* [a]	6	30-130/20
95-57-8	2-Chlorophenol	ND		50	42.7	85	50	41.6	83	3	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	46.2	92	50	46.3	93	0	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	46.9	94	50	46.7	93	0	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	26.4	53	50	37.1	74	34* [b]	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	38.8	78	50	38.1	76	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	48.6	97	50	46.1	92	5	30-130/20
95-48-7	2-Methylphenol	ND		50	37.2	74	50	37.0	74	1	30-130/20
	3&4-Methylphenol	ND		100	71.8	72	100	72.8	73	1	30-130/20
88-75-5	2-Nitrophenol	ND		50	48.1	96	50	48.1	96	0	30-130/20
100-02-7	4-Nitrophenol	ND		50	23.0	46	50	17.4	35	28* [b]	30-130/20
87-86-5	Pentachlorophenol	ND		50	52.6	105	50	50.9	102	3	30-130/20
108-95-2	Phenol	ND		50	18.3	37	50	18.2	36	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	48.6	97	50	49.2	98	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	46.3	93	50	46.8	94	1	30-130/20
62-53-3	Aniline	ND		50	33.5	67	50	34.2	68	2	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	47.4	95	50	46.7	93	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	51.1	102	50	49.7	99	3	40-140/20
100-51-6	Benzyl Alcohol	ND		50	41.6	83	50	39.7	79	5	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.5	95	50	47.6	95	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	40.8	82	50	41.9	84	3	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	47.5	95	50	46.6	93	2	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	43.1	86	50	42.7	85	1	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	54.9	110	50	52.7	105	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	46.8	94	50	46.7	93	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	45.2	90	50	44.3	89	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	46.6	93	50	47.6	95	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	46.9	94	50	46.8	94	0	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	55.8	112	50	55.2	110	1	40-140/20
132-64-9	Dibenzofuran	ND		50	46.7	93	50	46.3	93	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	48.2	96	50	46.4	93	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	51.8	104	50	49.6	99	4	40-140/20
84-66-2	Diethyl phthalate	ND		50	46.3	93	50	46.7	93	1	40-140/20
131-11-3	Dimethyl phthalate	ND		50	47.7	95	50	47.1	94	1	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	53.0	106	50	50.9	102	4	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.0	96	50	47.0	94	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41661-MS	F79413.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
OP41661-MSD	F79414.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455
MC36400-1	F79415.D	1	01/19/15	KD	01/15/15	OP41661	MSF3455

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	MC36400-1 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		50	21.8	44	50	22.2	44	2	40-140/20
67-72-1	Hexachloroethane	ND		50	42.3	85	50	42.6	85	1	40-140/20
78-59-1	Isophorone	ND		50	41.7	83	50	40.7	81	2	40-140/20
88-74-4	2-Nitroaniline	ND		50	50.7	101	50	50.3	101	1	40-140/20
99-09-2	3-Nitroaniline	ND		50	48.8	98	50	47.9	96	2	40-140/20
100-01-6	4-Nitroaniline	ND		50	49.4	99	50	49.4	99	0	40-140/20
98-95-3	Nitrobenzene	ND		50	26.7	53	50	25.8	52	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	25.2	50	50	24.9	50	1	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.5	95	50	47.1	94	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	44.6	89	50	43.7	87	2	40-140/20
110-86-1	Pyridine	ND		50	20.0	40	50	21.5	43	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-1	Limits
367-12-4	2-Fluorophenol	52%	52%	52%	15-110%
4165-62-2	Phenol-d5	36%	35%	35%	15-110%
118-79-6	2,4,6-Tribromophenol	101%	100%	95%	15-110%
4165-60-0	Nitrobenzene-d5	90%	87%	91%	30-130%
321-60-8	2-Fluorobiphenyl	87%	86%	89%	30-130%
1718-51-0	Terphenyl-d14	108%	104%	108%	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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41662-MS	I93899.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
OP41662-MSD	I93900.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502
MC36400-2	I93901.D	1	01/19/15	MR	01/15/15	OP41662	MSI3502

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7

CAS No.	Compound	MC36400-2 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	39.8	80	50	39.3	79	1	41-120/20
208-96-8	Acenaphthylene	ND		50	41.4	83	50	40.6	81	2	30-120/20
120-12-7	Anthracene	ND		50	41.2	82	50	39.9	80	3	47-120/20
56-55-3	Benzo(a)anthracene	ND		50	48.3	97	50	47.3	95	2	36-139/20
50-32-8	Benzo(a)pyrene	ND		50	48.0	96	50	47.1	94	2	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		50	46.3	93	50	44.8	90	3	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		50	47.9	96	50	46.2	92	4	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		50	44.6	89	50	43.5	87	2	34-133/20
218-01-9	Chrysene	ND		50	44.8	90	50	43.8	88	2	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	46.7	93	50	45.2	90	3	29-140/20
206-44-0	Fluoranthene	ND		50	45.9	92	50	44.7	89	3	42-132/20
86-73-7	Fluorene	ND		50	40.6	81	50	40.1	80	1	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	47.6	95	50	46.1	92	3	28-139/20
90-12-0	1-Methylnaphthalene	ND		50	38.1	76	50	37.4	75	2	33-120/20
91-57-6	2-Methylnaphthalene	ND		50	39.2	78	50	38.5	77	2	20-125/20
85-01-8	Phenanthrene	ND		50	40.1	80	50	39.1	78	3	47-120/20
129-00-0	Pyrene	ND		50	47.1	94	50	45.8	92	3	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-2	Limits
4165-60-0	Nitrobenzene-d5	83%	81%	84%	30-130%
321-60-8	2-Fluorobiphenyl	78%	77%	77%	30-130%
1718-51-0	Terphenyl-d14	112%	108%	114%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3455-CC3446	**Injection Date:**	01/19/15
Lab File ID:	F79401.D	**Injection Time:**	08:07
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	45487	1.85	159161	2.88	95524	4.32	171744	5.51	186262	7.69	185563	8.78
Upper Limit [a]	90974	2.35	318322	3.38	191048	4.82	343488	6.01	372524	8.19	371126	9.28
Lower Limit [b]	22744	1.35	79581	2.38	47762	3.82	85872	5.01	93131	7.19	92782	8.28
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**
OP41676-MB	46489	1.84	161951	2.87	98693	4.31	182668	5.50	203640	7.68	203732	8.77
OP41676-BS	49162	1.84	172511	2.88	100884	4.32	178739	5.50	205091	7.69	205570	8.78
OP41676-MS	46023	1.84	160966	2.88	98638	4.32	180119	5.51	200666	7.69	203022	8.78
OP41676-MSD	45217	1.84	168486	2.88	100291	4.32	180691	5.51	205036	7.69	204774	8.78
MC36400-3	44207	1.84	154587	2.87	95733	4.31	180498	5.50	205364	7.68	204212	8.77
ZZZZZZ	40261	1.84	136915	2.87	85461	4.31	159352	5.50	181000	7.68	179329	8.77
ZZZZZZ	39469	1.84	142703	2.87	86466	4.32	160290	5.50	187056	7.68	185316	8.77
OP41661-MB	43588	1.84	155807	2.87	95140	4.31	170825	5.50	197806	7.68	200682	8.77
OP41661-BS	47287	1.84	165698	2.88	100659	4.32	183329	5.50	208630	7.69	207178	8.78
ZZZZZZ	48358	1.84	174423	2.88	109134	4.35	184616	5.51	222896	7.71	190447	8.81
OP41661-MS	48060	1.85	169305	2.88	102392	4.32	182692	5.51	202815	7.69	206565	8.78
OP41661-MSD	47579	1.85	166583	2.88	99959	4.32	181523	5.51	202929	7.69	209395	8.78
MC36400-1	42999	1.85	153010	2.87	95082	4.31	177459	5.50	200043	7.68	202890	8.77
ZZZZZZ	43740	1.85	151744	2.87	92758	4.32	172542	5.50	196623	7.68	197580	8.77
ZZZZZZ	43975	1.84	153198	2.87	93199	4.31	171483	5.50	190410	7.68	197317	8.77
MC36413-1	42249	1.84	151646	2.87	93786	4.32	173237	5.50	198514	7.68	199062	8.77
MC36413-2	46219	1.84	163963	2.87	99008	4.32	184544	5.50	207704	7.68	208055	8.77
MC36413-3	44629	1.84	157289	2.87	96824	4.31	177930	5.50	207976	7.68	206698	8.77
MC36413-4	42473	1.84	150897	2.87	90756	4.31	171658	5.50	197768	7.69	200984	8.78
MC36413-5	44983	1.84	157778	2.87	96841	4.32	178176	5.50	200833	7.68	203236	8.77
MC36413-6	44652	1.84	155924	2.87	97414	4.32	176625	5.51	203937	7.70	209795	8.79
MC36413-7	46105	1.84	159627	2.87	96488	4.31	182247	5.50	204174	7.68	205823	8.77
OP41667-MB	42585	1.85	145409	2.87	85926	4.31	155516	5.50	169177	7.68	165005	8.77
OP41667-BS	44402	1.85	153544	2.88	91576	4.32	161169	5.50	174317	7.69	181477	8.78
ZZZZZZ	42794	1.85	145581	2.87	86875	4.31	159326	5.50	169539	7.68	172166	8.77
ZZZZZZ	44256	1.85	153987	2.87	91284	4.31	164642	5.50	177686	7.68	182172	8.77
ZZZZZZ	46551	1.85	157359	2.87	93430	4.31	166873	5.50	178661	7.68	175276	8.77
ZZZZZZ	44799	1.85	153957	2.87	90709	4.31	164512	5.50	176545	7.68	172558	8.77

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

Semivolatile Internal Standard Area Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3455-CC3446	**Injection Date:**	01/19/15
Lab File ID:	F79401.D	**Injection Time:**	08:07
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3502-CC3483	**Injection Date:**	01/19/15
Lab File ID:	I93879.D	**Injection Time:**	07:59
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	269773	3.67	523746	4.71	298264	6.22	516367	7.54	367036	10.31	930857	11.75
Upper Limit [a]	539546	4.17	1047492	5.21	596528	6.72	1032734	8.04	734072	10.81	1861714	12.25
Lower Limit [b]	134887	3.17	261873	4.21	149132	5.72	258184	7.04	183518	9.81	465429	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
OP41690-MB	304453	3.67	596603	4.71	341654	6.22	589488	7.55	419107	10.31	1047111	11.75
OP41690-BS	282629	3.67	567663	4.71	315409	6.23	572317	7.55	401882	10.31	979523	11.75
OP41690-MS	291046	3.67	589835	4.71	327146	6.23	577629	7.55	418722	10.32	1011568	11.75
OP41690-MSD	290716	3.67	594817	4.71	336517	6.22	594026	7.55	426158	10.31	1035264	11.75
MC36400-6	296270	3.67	592888	4.70	343301	6.22	581026	7.54	422515	10.31	1069373	11.75
ZZZZZZ	294176	3.67	587533	4.70	341280	6.22	583839	7.54	414588	10.31	1032667	11.75
ZZZZZZ	302143	3.67	607279	4.71	350249	6.22	596950	7.54	427224	10.31	1074034	11.75
ZZZZZZ	290233	3.67	576224	4.70	333677	6.22	581617	7.54	404060	10.31	1018439	11.75
ZZZZZZ	311260	3.67	620849	4.71	356566	6.22	614393	7.54	434328	10.31	1089386	11.75
ZZZZZZ	310620	3.67	624141	4.71	360503	6.22	619299	7.54	446789	10.31	1119131	11.75
OP41678-MB	296691	3.67	591702	4.70	340555	6.22	585793	7.54	415588	10.31	1017422	11.75
OP41678-BS	276170	3.67	547922	4.71	306246	6.22	548666	7.55	384330	10.31	918202	11.75
OP41678-MS	241279	3.72	363872	4.75	167305	6.27	580960	7.58	439407	10.33	1018125	11.77
OP41678-MSD	235786	3.73	351235	4.75	152116	6.27	578758	7.59	425640	10.34	988413	11.77
D66661-1	248280	3.72	374467	4.75	157682	6.27	548799	7.59	444833	10.33	1026604	11.76
OP41662-MB	266536	3.67	551727	4.71	322783	6.23	568675	7.54	405849	10.31	979654	11.75
OP41662-BS	284218	3.67	600299	4.71	339996	6.23	606422	7.55	430171	10.32	1016526	11.76
OP41662-BSD	274976	3.67	587275	4.71	333718	6.23	598600	7.55	422692	10.32	1009411	11.76
D66661-1	241862	3.68	456446	4.71	305976	6.23	520561	7.55	374231	10.31	911368	11.75
OP41662-MS	274328	3.67	582749	4.71	328906	6.23	592623	7.55	419386	10.31	986175	11.75
OP41662-MSD	277083	3.67	589947	4.71	332033	6.23	594061	7.55	414507	10.32	983068	11.76
MC36400-2	263115	3.67	540517	4.70	314537	6.22	544809	7.54	393607	10.31	952240	11.75
ZZZZZZ	266702	3.67	549300	4.71	316073	6.22	544403	7.54	390624	10.31	949295	11.75
ZZZZZZ	270107	3.67	552730	4.70	319149	6.22	551487	7.54	395965	10.31	972804	11.75
MC36413-1	272679	3.67	560699	4.71	320292	6.22	558661	7.54	395716	10.31	966708	11.75
MC36413-2	284010	3.67	583468	4.71	338478	6.22	592012	7.54	417108	10.31	1018769	11.75
MC36413-3	283082	3.67	580818	4.70	332580	6.22	572902	7.54	413407	10.31	994400	11.75
MC36413-4	267406	3.67	546357	4.71	313641	6.22	540460	7.55	394018	10.31	960790	11.75

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3502-CC3483	**Injection Date:**	01/19/15
Lab File ID:	I93879.D	**Injection Time:**	07:59
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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

(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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3503-CC3483	**Injection Date:**	01/20/15
Lab File ID:	I93910.D	**Injection Time:**	07:58
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	260181	3.66	522485	4.71	301605	6.22	537298	7.54	382974	10.31	967468	11.75
Upper Limit [a]	520362	4.16	1044970	5.21	603210	6.72	1074596	8.04	765948	10.81	1934936	12.25
Lower Limit [b]	130091	3.16	261243	4.21	150803	5.72	268649	7.04	191487	9.81	483734	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
MC36413-5	305451	3.67	613800	4.70	356011	6.22	606796	7.55	433848	10.31	1075210	11.75
MC36413-6	301324	3.67	607798	4.70	341452	6.22	597839	7.55	431284	10.32	1032616	11.76
MC36413-7	297595	3.67	602130	4.71	350246	6.22	605600	7.54	434883	10.31	1066562	11.75
ZZZZZZ	291986	3.67	590307	4.70	342936	6.22	596240	7.55	431122	10.31	1085555	11.75
ZZZZZZ	293430	3.67	574956	4.71	322924	6.23	581700	7.55	423548	10.32	1049367	11.76
OP41721-MB	278025	3.67	567287	4.71	329106	6.22	572025	7.55	408155	10.31	1004062	11.75
OP41721-BS	298518	3.67	620315	4.71	348310	6.23	630662	7.55	450262	10.32	1076314	11.76
OP41721-MS	287380	3.67	590786	4.71	332228	6.23	595443	7.55	425471	10.32	1016160	11.76
OP41721-MSD	292912	3.67	603022	4.71	338937	6.23	609798	7.55	435252	10.32	1040689	11.76
MC36400-11	284908	3.66	577362	4.70	339121	6.22	584594	7.54	420836	10.31	1038193	11.75

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36413-1	F79418.D	49	34	102	85	79	109
MC36413-2	F79419.D	46	31	93	78	76	101
MC36413-3	F79420.D	51	33	108	89	89	107
MC36413-4	F79421.D	46	30	105	83	84	108
MC36413-5	F79422.D	43	26	99	74	76	110
MC36413-6	F79423.D	48	33	107	86	87	104
MC36413-7	F79424.D	43	27	91	80	75	110
OP41661-BS	F79411.D	51	33	104	90	82	107
OP41661-MB	F79410.D	49	31	98	83	76	106
OP41661-MS	F79413.D	52	36	101	90	87	108
OP41661-MSD	F79414.D	52	35	100	87	86	104

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36413-1	I93904.D	78	70	115
MC36413-2	I93905.D	76	68	108
MC36413-3	I93906.D	84	78	115
MC36413-4	I93907.D	79	74	115
MC36413-5	I93911.D	73	67	114
MC36413-6	I93912.D	83	79	112
MC36413-7	I93913.D	78	67	115
OP41662-BS	I93896.D	81	73	114
OP41662-BSD	I93897.D	87	84	117
OP41662-MB	I93895.D	78	67	114
OP41662-MS	I93899.D	83	78	112
OP41662-MSD	I93900.D	81	77	108

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MB	BB61510.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-9

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

Blank Spike Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-BS	BB61511.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.059	83	60-140
106-93-4	1,2-Dibromoethane	0.071	0.056	79	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	110%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41725-MS	BB61512.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
OP41725-MSD	BB61513.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380
MC36343-3	BB61514.D	1	01/20/15	NK	01/19/15	OP41725	GBB3380

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

MC36413-1, MC36413-2, MC36413-3, MC36413-4, MC36413-5, MC36413-6, MC36413-7, MC36413-9

CAS No.	Compound	MC36343-3 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		0.0682	0.081	119	0.0689	0.077	112	5	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0682	0.065	95	0.0689	0.063	91	3	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC36343-3	Limits
460-00-4	Bromofluorobenzene (S)	139%	119%	124%	36-173%
460-00-4	Bromofluorobenzene (S)	126%	106%	114%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36413-1	BB61527.D	109	93
MC36413-2	BB61528.D	131	123
MC36413-3	BB61529.D	129	114
MC36413-4	BB61530.D	105	90
MC36413-5	BB61532.D	107	109
MC36413-6	BB61533.D	147	161
MC36413-7	BB61534.D	74	88
MC36413-9	BB61535.D	90	104
OP41725-BS	BB61511.D	118	110
OP41725-MB	BB61510.D	109	103
OP41725-MS	BB61512.D	139	126
OP41725-MSD	BB61513.D	119	106

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-ICC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61506.D	**Injection Time:**	11:18
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41725-MB	BB61510.D	01/20/15	13:15	4.81	4.93
OP41725-BS	BB61511.D	01/20/15	13:37	4.81	4.93
OP41725-MS	BB61512.D	01/20/15	13:59	4.81	4.93
OP41725-MSD	BB61513.D	01/20/15	14:22	4.81	4.93
MC36343-3	BB61514.D	01/20/15	14:44	4.81	4.93
ZZZZZZ	BB61515.D	01/20/15	15:06	4.81	4.93
ZZZZZZ	BB61516.D	01/20/15	15:29	4.81	4.93
ZZZZZZ	BB61517.D	01/20/15	15:52	4.81	4.93
ZZZZZZ	BB61518.D	01/20/15	16:14	4.81	4.93
ZZZZZZ	BB61519.D	01/20/15	16:36	4.81	4.93

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-CC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61520.D	**Injection Time:**	16:58
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB61521.D	01/20/15	17:20	4.81	4.93
ZZZZZZ	BB61522.D	01/20/15	17:42	4.81	4.93
ZZZZZZ	BB61523.D	01/20/15	18:04	4.81	4.93
ZZZZZZ	BB61524.D	01/20/15	18:27	4.81	4.93
ZZZZZZ	BB61525.D	01/20/15	18:49	4.81	4.93
ZZZZZZ	BB61526.D	01/20/15	19:11	4.81	4.93
MC36413-1	BB61527.D	01/20/15	19:34	4.81	4.93
MC36413-2	BB61528.D	01/20/15	19:57	4.81	4.93
MC36413-3	BB61529.D	01/20/15	20:20	4.81	4.93
MC36413-4	BB61530.D	01/20/15	20:43	4.81	4.93

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: MC36413
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3380-CC3380	**Injection Date:**	01/20/15
Lab File ID:	BB61531.D	**Injection Time:**	21:07
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC36413-5	BB61532.D	01/20/15	21:30	4.81	4.93
MC36413-6	BB61533.D	01/20/15	21:52	4.81	4.93
MC36413-7	BB61534.D	01/20/15	22:16	4.81	4.93
MC36413-9	BB61535.D	01/20/15	22:39	4.81	4.93
GBB3380-ECC338B	BB61536.D	01/20/15	23:01	4.81	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36440

Sampling Date: 01/15/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 112

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

November 03, 2016

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

RE: SGS Accutest Job # MC36440

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: MC36440

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36440-1	01/15/15	09:25	DCDH	01/16/15	AQ	Ground Water	MW3-ROX-011515
MC36440-2	01/15/15	11:05	DCDH	01/16/15	AQ	Ground Water	MW27-ROX-011515
MC36440-3	01/15/15	13:20	DCDH	01/16/15	AQ	Ground Water	MW28-ROX-011515
MC36440-4	01/15/15	14:15	DCDH	01/16/15	AQ	Ground Water	ROST3MW-ROX-011515
MC36440-5	01/15/15	15:15	DCDH	01/16/15	AQ	Ground Water	ROST4PZC-ROX-011515
MC36440-6	01/15/15	15:55	DCDH	01/16/15	AQ	Equipment Blank	MW5-ROX-011515-EB
MC36440-7	01/15/15	16:20	DCDH	01/16/15	AQ	Ground Water	MW5-ROX-011515
MC36440-7D	01/15/15	16:20	DCDH	01/16/15	AQ	Water Dup/MSD	MW5-ROX-011515
MC36440-7S	01/15/15	16:20	DCDH	01/16/15	AQ	Water Matrix Spike	MW5-ROX-011515
MC36440-8	01/15/15	00:00	DCDH	01/16/15	AQ	Trip Blank Water	TB-ROX-011515-HCL
MC36440-9	01/15/15	00:00	DCDH	01/16/15	AQ	Trip Blank Water	TB-ROX-011515-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36440

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 3:00:50 PM

7 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 5/20 5 and were rece ved at SGS Accutest New Eng and on 0 / 6/20 5 proper y preserved, at 0 4 Deg C and ntact These Samp es rece ved a job number of MC36440 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 8260C

Matrix: AQ **Batch ID:** MSL4003

- 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) MC36440-7MS, MC36440-7MSD were used as the QC samp es nd cated
- RPD(s) for MSD for ,4-D oxane, 2,2-D ch oropropane, 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, 4-Methy -2-pentanone (MIBK), Acetone, Bromomethane, Ch oroethane, Ch oromethane, V ny ch or de are outs de contro m ts for samp e MC36440-7MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Acro e n, ,4-D oxane: 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
- MSL4003-BS for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC36440-7MS/MSD for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 67

- 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) MC36440-7MS, MC36440-7MSD were used as the QC samp es nd cated
- Samp e(s) MC36440-2 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
- Matr x Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, Pheno 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 3,3'-D ch orobenz d ne, An 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
- RPD(s) for MSD for 3,3'-D ch orobenz d ne, An ne, Benzo c Ac d, Pyr d ne are outs de contro m ts for samp e OP4 67 -MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC36440-2: Conf rmat on un
- MC36440-2 for 2,4,6-Tr bromopheno : Outs de contro m ts due to poss b e matr x nterference
- MC36440-2 for Terpheny -d 4: Outs de contro m ts due to poss b e matr x nterference
- MC36440-2 for 2-F uorob pheny : Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 675

- 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) MC36440-7MS, MC36440-7MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job
- MC36440-2: Conf rmat on un for surrogate recover es
- MC36440-2 for 2-F uorob pheny : Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 739

- 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) MC36440- MS, MC36440- 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(MC36440)

Summary of Hits

Job Number: MC36440
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36440-1	MW3-ROX-011515					
Benzene		0.37 J	0.50	0.25	ug/l	SW846 8260C
sec-Butylbenzene		0.49 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		0.90 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		0.39 J	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		0.65 J	5.0	0.35	ug/l	SW846 8260C
Methyl Tert Butyl Ether		10.1	1.0	0.22	ug/l	SW846 8260C
n-Propylbenzene		1.8 J	5.0	0.49	ug/l	SW846 8260C
Toluene		0.62 J	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.71 J	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.31 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		1.4	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		1.5	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate		0.28 J	5.6	0.19	ug/l	SW846 8270D
Acenaphthene		0.027 J	0.11	0.0084	ug/l	SW846 8270D BY SIM
Anthracene		0.021 J	0.11	0.011	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.33 J	2.2	0.014	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.30 J	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.018 J	0.056	0.012	ug/l	SW846 8270D BY SIM
MC36440-2	MW27-ROX-011515					
Di-n-butyl phthalate		0.26 J	5.3	0.18	ug/l	SW846 8270D
Diethyl phthalate		0.29 JB	5.3	0.27	ug/l	SW846 8270D
Benzo(a)pyrene		0.10 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.13	0.053	0.020	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.029 J	0.11	0.013	ug/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.078 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.051 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Fluorene		0.023 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.047 J	0.11	0.022	ug/l	SW846 8270D BY SIM
Phenanthrene		0.028 J	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.019 J	0.11	0.0090	ug/l	SW846 8270D BY SIM
MC36440-3	MW28-ROX-011515					
Benzene		54.1	0.50	0.25	ug/l	SW846 8260C
Toluene		0.26 J	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.59 J	5.0	0.30	ug/l	SW846 8260C
m,p-Xylene		1.2	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.92 J	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		2.1	1.0	0.30	ug/l	SW846 8260C
2,4-Dimethylphenol		1.2 J	11	0.62	ug/l	SW846 8270D
Butyl benzyl phthalate		0.70 J	5.5	0.58	ug/l	SW846 8270D

Summary of Hits

Job Number: MC36440
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Di-n-butyl phthalate		0.33 J	5.5	0.19	ug/l	SW846 8270D
1-Methylnaphthalene		0.47 J	2.2	0.014	ug/l	SW846 8270D BY SIM
MC36440-4	**ROST3MW-ROX-011515**					
Benzene		2.2	0.50	0.25	ug/l	SW846 8260C
Ethylbenzene		14.4	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		1.6 J	5.0	0.35	ug/l	SW846 8260C
Naphthalene		6.1	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		2.1 J	5.0	0.49	ug/l	SW846 8260C
Toluene		1.1	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		12.6	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		3.6 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		16.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		4.2	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		20.9	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate		0.45 J	5.7	0.20	ug/l	SW846 8270D
Acenaphthene		0.027 J	0.11	0.0085	ug/l	SW846 8270D BY SIM
Anthracene		0.019 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Fluoranthene		0.022 J	0.11	0.0084	ug/l	SW846 8270D BY SIM
Fluorene		0.035 J	0.11	0.017	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		1.0 J	2.3	0.014	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.24 J	2.3	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.10	0.057	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.033 J	0.11	0.0097	ug/l	SW846 8270D BY SIM
MC36440-5	**ROST4PZC-ROX-011515**					
Acetone		16.0	10	2.5	ug/l	SW846 8260C
Benzene		1.3	0.50	0.25	ug/l	SW846 8260C
Ethylbenzene		3.5	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		0.36 J	5.0	0.35	ug/l	SW846 8260C
n-Propylbenzene		0.56 J	5.0	0.49	ug/l	SW846 8260C
Toluene		0.50 J	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.1 J	5.0	0.30	ug/l	SW846 8260C
m,p-Xylene		2.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		3.1	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		5.7	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate		0.30 J	5.7	0.20	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		4.2	2.3	0.38	ug/l	SW846 8270D
1-Methylnaphthalene		0.038 J	2.3	0.014	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.018 J	2.3	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.040 J	0.057	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.022 J	0.11	0.0097	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36440
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36440-6	MW5-ROX-011515-EB					
Di-n-butyl phthalate		0.30 J	5.6	0.19	ug/l	SW846 8270D
Anthracene		0.034 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.039 J	0.056	0.027	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.024 J	0.11	0.017	ug/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.14	0.056	0.021	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.023 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.033 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Chrysene		0.031 J	0.11	0.015	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.022 J	0.11	0.017	ug/l	SW846 8270D BY SIM
Fluoranthene		0.061 J	0.11	0.0083	ug/l	SW846 8270D BY SIM
Fluorene		0.020 J	0.11	0.017	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.026 J	0.11	0.023	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.021 J	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.044 J	0.056	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.064 J	0.11	0.0096	ug/l	SW846 8270D BY SIM
MC36440-7	MW5-ROX-011515					
Benzene		3.0	0.50	0.25	ug/l	SW846 8260C
sec-Butylbenzene		1.4 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		5.9	5.0	0.39	ug/l	SW846 8260C
Isopropylbenzene		5.7	5.0	0.35	ug/l	SW846 8260C
Methyl Tert Butyl Ether		21.5	1.0	0.22	ug/l	SW846 8260C
n-Propylbenzene		1.8 J	5.0	0.49	ug/l	SW846 8260C
Toluene		1.4	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.37 J	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.31 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		7.6	1.0	0.38	ug/l	SW846 8260C
o-Xylene		1.5	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		9.0	1.0	0.30	ug/l	SW846 8260C
Acenaphthene		0.12	0.11	0.0080	ug/l	SW846 8270D BY SIM
Anthracene		0.070 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.035 J	0.053	0.025	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.020 J	0.11	0.013	ug/l	SW846 8270D BY SIM
Chrysene		0.025 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.017 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Fluoranthene		0.037 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.023 J	0.11	0.022	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.71 J	2.1	0.013	ug/l	SW846 8270D BY SIM
Phenanthrene		0.039 J	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.038 J	0.11	0.0090	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36440
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36440-8	TB-ROX-011515-HCL					
No hits reported in this sample.						
MC36440-9	TB-ROX-011515-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90438.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	0.37	0.50	0.25	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	0.49	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	0.90	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.39	1.0	0.25	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.65	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.1	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	1.8	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.62	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.71	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.31	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	1.4	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.5	1.0	0.30	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:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-134%
2037-26-5	Toluene-D8	101%		79-121%
460-00-4	4-Bromofluorobenzene	101%		71-133%

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

(a) Continuing 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:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19988.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.93	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.63	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.6	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.6	0.32	ug/l	

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Report of Analysis

Client Sample ID:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	51%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	100%		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:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93933.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.027	0.11	0.0084	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.0094	ug/l	
120-12-7	Anthracene	0.021	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.056	0.027	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0083	ug/l	
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	0.33	2.2	0.014	ug/l	J
91-57-6	2-Methylnaphthalene	0.30	2.2	0.012	ug/l	J
85-01-8	Phenanthrene	0.018	0.056	0.012	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	109%		30-130%

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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:	MW3-ROX-011515		
Lab Sample ID:	MC36440-1	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61543.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	135%		36-173%
460-00-4	Bromofluorobenzene (S)	139%		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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90439.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		67-134%
2037-26-5	Toluene-D8	98%		79-121%
460-00-4	4-Bromofluorobenzene	101%		71-133%

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

(a) 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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19989.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
Run #2 [a]	X05431.D	1	01/22/15	MR	01/16/15	OP41671	MSX177

	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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.26	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	0.29	5.3	0.27	ug/l	JB
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	49%	48%	15-110%
4165-62-2	Phenol-d5	24%	18%	15-110%
118-79-6	2,4,6-Tribromophenol	99%	120% [b]	15-110%
4165-60-0	Nitrobenzene-d5	82%	86%	30-130%
321-60-8	2-Fluorobiphenyl	155% [c]	372% [c]	30-130%
1718-51-0	Terphenyl-d14	113%	249% [b]	30-130%

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

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference.
(c) 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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93934.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
Run #2 [a]	I93961.D	1	01/22/15	MR	01/16/15	OP41675	MSI3505

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

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	0.10	0.11	0.016	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.13	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.029	0.11	0.013	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.078	0.11	0.011	ug/l	J
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.051	0.11	0.016	ug/l	J
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	0.023	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.047	0.11	0.022	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.028	0.053	0.011	ug/l	J
129-00-0	Pyrene	0.019	0.11	0.0090	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%	84%	30-130%
321-60-8	2-Fluorobiphenyl	135% [b]	205% [b]	30-130%
1718-51-0	Terphenyl-d14	121%	147% [c]	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(c) 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:	MW27-ROX-011515		
Lab Sample ID:	MC36440-2	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61544.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	138%		36-173%
460-00-4	Bromofluorobenzene (S)	129%		36-173%

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:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90440.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	54.1	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.26	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.59	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	1.2	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.92	1.0	0.30	ug/l	J
1330-20-7	Xylene (total)	2.1	1.0	0.30	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:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	97%		79-121%
460-00-4	4-Bromofluorobenzene	104%		71-133%

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

(a) 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:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19990.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.91	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	1.2	11	0.62	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	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.5	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	0.70	5.5	0.58	ug/l	J
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.33	5.5	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.5	0.31	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:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.33	ug/l	
78-59-1	Isophorone	ND	5.5	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.27	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	32%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	83%		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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Report of Analysis

Client Sample ID:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93935.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.0082	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0092	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.055	0.026	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0081	ug/l	
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.47	2.2	0.014	ug/l	J
91-57-6	2-Methylnaphthalene	ND	2.2	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.055	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	109%		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:	MW28-ROX-011515		
Lab Sample ID:	MC36440-3	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61545.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	135%		36-173%
460-00-4	Bromofluorobenzene (S)	132%		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:	ROST3MW-ROX-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90441.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	2.2	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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Report of Analysis

Client Sample ID:	ROST3MW-ROX-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	14.4	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	1.6	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	6.1	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	2.1	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	1.1	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	12.6	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.6	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	16.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	4.2	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	20.9	1.0	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		67-134%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

(a) 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:	ROST3MW-ROX-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19991.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.53	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.7	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.45	5.7	0.20	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.34	ug/l	
78-59-1	Isophorone	ND	5.7	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.28	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	54%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	84%		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	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93936.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.027	0.11	0.0085	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.0095	ug/l	
120-12-7	Anthracene	0.019	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.057	0.027	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.022	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	0.022	0.11	0.0084	ug/l	J
86-73-7	Fluorene	0.035	0.11	0.017	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	1.0	2.3	0.014	ug/l	J
91-57-6	2-Methylnaphthalene	0.24	2.3	0.012	ug/l	J
85-01-8	Phenanthrene	0.10	0.057	0.012	ug/l	
129-00-0	Pyrene	0.033	0.11	0.0097	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	109%		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-011515		
Lab Sample ID:	MC36440-4	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61546.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	126%		36-173%
460-00-4	Bromofluorobenzene (S)	132%		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:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90442.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	16.0	10	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1.3	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	3.5	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.36	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	0.56	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.50	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.1	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	2.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	3.1	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	5.7	1.0	0.30	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:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-134%
2037-26-5	Toluene-D8	98%		79-121%
460-00-4	4-Bromofluorobenzene	105%		71-133%

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

(a) 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:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19992.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.53	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.7	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.30	5.7	0.20	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	4.2	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.34	ug/l	
78-59-1	Isophorone	ND	5.7	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.28	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	42%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	67%		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	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93937.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.0085	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0095	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.027	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.022	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.015	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0084	ug/l	
86-73-7	Fluorene	ND	0.11	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.023	ug/l	
90-12-0	1-Methylnaphthalene	0.038	2.3	0.014	ug/l	J
91-57-6	2-Methylnaphthalene	0.018	2.3	0.012	ug/l	J
85-01-8	Phenanthrene	0.040	0.057	0.012	ug/l	J
129-00-0	Pyrene	0.022	0.11	0.0097	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	92%		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:	ROST4PZC-ROX-011515		
Lab Sample ID:	MC36440-5	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61547.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	126%		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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90432.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

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

(a) 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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19993.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.93	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.63	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.28	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.30	5.6	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.6	0.32	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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.28	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	43%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	91%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	100%		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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93938.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.0084	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0094	ug/l	
120-12-7	Anthracene	0.034	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	0.039	0.056	0.027	ug/l	J
50-32-8	Benzo(a)pyrene	0.024	0.11	0.017	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.14	0.056	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.023	0.11	0.014	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.033	0.11	0.011	ug/l	J
218-01-9	Chrysene	0.031	0.11	0.015	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.022	0.11	0.017	ug/l	J
206-44-0	Fluoranthene	0.061	0.11	0.0083	ug/l	J
86-73-7	Fluorene	0.020	0.11	0.017	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.026	0.11	0.023	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.2	0.014	ug/l	
91-57-6	2-Methylnaphthalene	0.021	2.2	0.012	ug/l	J
85-01-8	Phenanthrene	0.044	0.056	0.012	ug/l	J
129-00-0	Pyrene	0.064	0.11	0.0096	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	67%		30-130%
1718-51-0	Terphenyl-d14	104%		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:	MW5-ROX-011515-EB		
Lab Sample ID:	MC36440-6	**Date Sampled:**	01/15/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61549.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	142%		36-173%
460-00-4	Bromofluorobenzene (S)	131%		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-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	3.0	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	1.4	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	5.9	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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:	MW5-ROX-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	5.7	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	21.5	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	1.8	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	1.4	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.37	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.31	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	7.6	1.0	0.38	ug/l	
95-47-6	o-Xylene	1.5	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	9.0	1.0	0.30	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-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	100%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

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

(a) 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:	MW5-ROX-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19983.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	49%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	99%		15-110%
4165-60-0	Nitrobenzene-d5	88%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	104%		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:	MW5-ROX-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93928.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
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	0.12	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	0.070	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	0.035	0.053	0.025	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.020	0.11	0.013	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	0.025	0.11	0.014	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.017	0.11	0.016	ug/l	J
206-44-0	Fluoranthene	0.037	0.11	0.0079	ug/l	J
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	0.11	0.022	ug/l	J
90-12-0	1-Methylnaphthalene	0.71	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.039	0.053	0.011	ug/l	J
129-00-0	Pyrene	0.038	0.11	0.0090	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	107%		30-130%

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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-011515		
Lab Sample ID:	MC36440-7	**Date Sampled:**	01/15/15
Matrix:	AQ - Ground Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61542.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	142%		36-173%
460-00-4	Bromofluorobenzene (S)	150%		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:	TB-ROX-011515-HCL		
Lab Sample ID:	MC36440-8	**Date Sampled:**	01/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90431.D	1	01/23/15	GK	n/a	n/a	MSL4003
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	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-011515-HCL		
Lab Sample ID:	MC36440-8	**Date Sampled:**	01/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011515-HCL		
Lab Sample ID:	MC36440-8	**Date Sampled:**	01/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/16/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	99%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

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

(a) 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-011515-ST		
Lab Sample ID:	MC36440-9	**Date Sampled:**	01/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/16/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61550.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	149%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

LAB (LO. .N)

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

Lab Vendor #

Shell O.. roducts 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): 9 7 2 1 6 8 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1-15-15

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 / 21563720.03001

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com

SAMPLER NAME(S) (Print): DChasel/DHaxel

LAB USE ONLY: MC36440

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°

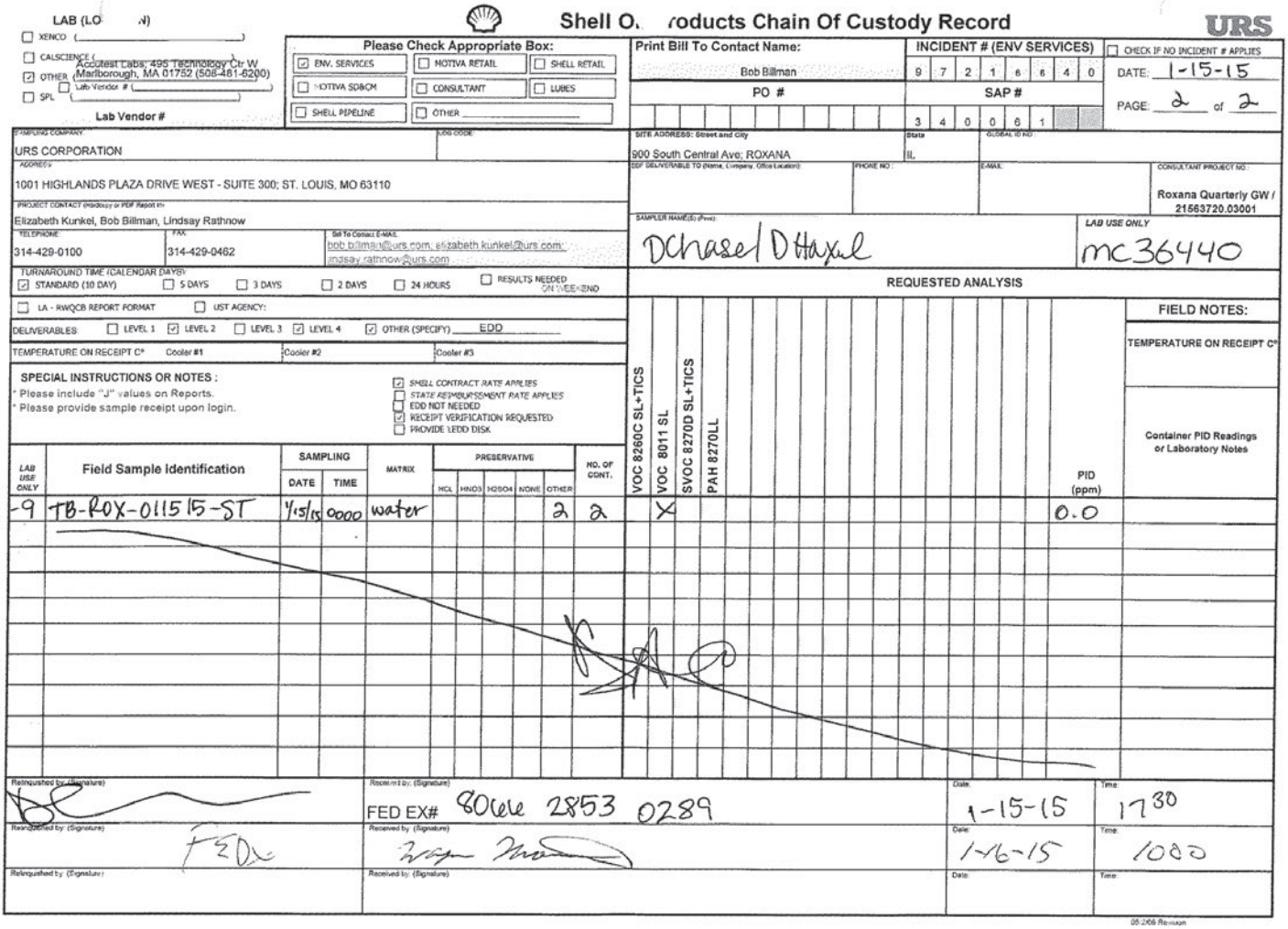
LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW3-ROX-011515	1/15/15	0925	water	2			2	2	6	X	X	X	X	0.0	
-2	MW27-ROX-011515		1105		2			2	2	6	X	X	X	X		
-3	MW28-ROX-011515		1320		2			2	2	6	X	X	X	X		
-4	ROST3MW-ROX-011515		1415		2			2	2	6	X	X	X	X		
-5	ROST4P2C-ROX-011515		1515		2			2	2	6	X	X	X	X		
-6	MW5-ROX-011515-EB		1535		2			2	2	6	X	X	X	X		
-7	MW5-ROX-011515		1620		2			2	2	6	X	X	X	X		
-7S	MW5-ROX-011515-MS		1620		2			2	2	6	X	X	X	X		18B, 2E3
-7SD	MW5-ROX-011515-MSD		1620		2			2	2	6	X	X	X	X		
-8	HB-ROX-011515-HCL	↓	0000	↓	2						X				↓	

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FED EX# 8066 2853 0289	1-15-2015	1730
FEDX		1/16/15	1000

GS/2/05 Revision

0.4 - 0.8. 1.0°C

MC36440: Chain of Custody
Page 1 of 3



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

Shell O. roducts Chain Of Custody Record

URS

Please Check Appropriate Box:
ENV. SERVICES | MOTIVA RETAIL | SHELL RETAIL
MOTIVA SD&M | 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: 1-15-15
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 / 21563720.03001
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; lindsay.rathnow@urs.com
SAMPLER NAME(S) (Print): DChasel/DHaxel
LAB USE ONLY: MC36440

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-9	TB-ROX-011515-ST	1/15/15	0000	water					2	2		X			0.0	

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) | Received by: (Signature) FED EX# 8066 2853 0289 | Date: 1-15-15 | Time: 1730
Relinquished by: (Signature) FEDX | Received by: (Signature) | Date: 1-16-15 | Time: 1000
Relinquished by: (Signature) | Received by: (Signature) | Date: | Time:

05-2456 Reorder

MC36440: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36440 **Client:** URS **Project:** 900 SOUTH CENTRAL AVE

Date / Time Received: 1/16/2015 10 00 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 4/0 4) #2 (0 8/0 8) #3 (1/1)

Cooler Security	Y or N		Y or N
1 Custody Seals Present	☑ ☐	3 COC Present	☑ ☐
2 Custody Seals ntact	☑ ☐	4 Smpl Dates/ ime OK	☑ ☐

Cooler Temperature	Y or N
1 emp criteria achieved	☑ ☐
2 hermometer D	G1
3 Cooler media	ce (Bag)
4 No Coolers	3

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

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 H	☑ ☐
2 All containers accounted or	☑ ☐
3 Condition o sample	ntact

Sample Integrity - Instructions	Y or N	N/A
1 Analysis requested is clear	☑ ☐	
2 Bottles received or unspeci ied tests	☐ ☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36440

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36440-1 Collected: 15-JAN-15 09:25 By: DCDH Received: 16-JAN-15 By: MW3-ROX-011515						
MC36440-1	SW846 8011	21-JAN-15 10:16	NK	20-JAN-15	AZ	V8011SL
MC36440-1	SW846 8270D BY SIM	21-JAN-15 12:00	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-1	SW846 8270D	21-JAN-15 19:33	KD	16-JAN-15	AZ	AB8270SL+
MC36440-1	SW846 8260C	23-JAN-15 16:26	GK			V8260SL+
MC36440-2 Collected: 15-JAN-15 11:05 By: DCDH Received: 16-JAN-15 By: MW27-ROX-011515						
MC36440-2	SW846 8011	21-JAN-15 10:38	NK	20-JAN-15	AZ	V8011SL
MC36440-2	SW846 8270D BY SIM	21-JAN-15 12:24	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-2	SW846 8270D	21-JAN-15 19:57	KD	16-JAN-15	AZ	AB8270SL+
MC36440-2	SW846 8270D	22-JAN-15 10:32	MR	16-JAN-15	AZ	AB8270SL+
MC36440-2	SW846 8270D BY SIM	22-JAN-15 11:34	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-2	SW846 8260C	23-JAN-15 17:01	GK			V8260SL+
MC36440-3 Collected: 15-JAN-15 13:20 By: DCDH Received: 16-JAN-15 By: MW28-ROX-011515						
MC36440-3	SW846 8011	21-JAN-15 11:00	NK	20-JAN-15	AZ	V8011SL
MC36440-3	SW846 8270D BY SIM	21-JAN-15 12:47	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-3	SW846 8270D	21-JAN-15 20:22	KD	16-JAN-15	AZ	AB8270SL+
MC36440-3	SW846 8260C	23-JAN-15 17:31	GK			V8260SL+
MC36440-4 Collected: 15-JAN-15 14:15 By: DCDH Received: 16-JAN-15 By: ROST3MW-ROX-011515						
MC36440-4	SW846 8011	21-JAN-15 11:22	NK	20-JAN-15	AZ	V8011SL
MC36440-4	SW846 8270D BY SIM	21-JAN-15 13:11	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-4	SW846 8270D	21-JAN-15 20:46	KD	16-JAN-15	AZ	AB8270SL+
MC36440-4	SW846 8260C	23-JAN-15 18:02	GK			V8260SL+
MC36440-5 Collected: 15-JAN-15 15:15 By: DCDH Received: 16-JAN-15 By: ROST4PZC-ROX-011515						
MC36440-5	SW846 8011	21-JAN-15 11:43	NK	20-JAN-15	AZ	V8011SL
MC36440-5	SW846 8270D BY SIM	21-JAN-15 13:34	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-5	SW846 8270D	21-JAN-15 21:10	KD	16-JAN-15	AZ	AB8270SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36440

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36440-5	SW846 8260C	23-JAN-15 18:31	GK			V8260SL+
MC36440-6 Collected: 15-JAN-15 15:55 By: DCDH Received: 16-JAN-15 By: MW5-ROX-011515-EB						
MC36440-6	SW846 8011	21-JAN-15 12:27	NK	20-JAN-15	AZ	V8011SL
MC36440-6	SW846 8270D BY SIM	21-JAN-15 13:57	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-6	SW846 8270D	21-JAN-15 21:35	KD	16-JAN-15	AZ	AB8270SL+
MC36440-6	SW846 8260C	23-JAN-15 13:27	GK			V8260SL+
MC36440-7 Collected: 15-JAN-15 16:20 By: DCDH Received: 16-JAN-15 By: MW5-ROX-011515						
MC36440-7	SW846 8011	21-JAN-15 09:54	NK	20-JAN-15	AZ	V8011SL
MC36440-7	SW846 8270D BY SIM	21-JAN-15 10:00	MR	16-JAN-15	AZ	B8270SIMSL
MC36440-7	SW846 8270D	21-JAN-15 17:31	KD	16-JAN-15	AZ	AB8270SL+
MC36440-7	SW846 8260C	23-JAN-15 15:56	GK			V8260SL+
MC36440-8 Collected: 15-JAN-15 00:00 By: DCDH Received: 16-JAN-15 By: TB-ROX-011515-HCL						
MC36440-8	SW846 8260C	23-JAN-15 12:56	GK			V8260SL+
MC36440-9 Collected: 15-JAN-15 00:00 By: DCDH Received: 16-JAN-15 By: TB-ROX-011515-ST						
MC36440-9	SW846 8011	21-JAN-15 12:48	NK	20-JAN-15	AZ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/16/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36440-1.1	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-1.1	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-1.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-1.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-1.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-1.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-1.6	Scott Parsick		04/15/15 12:23	Disposed
MC36440-2.2	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-2.2	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-2.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-2.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-2.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-2.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-2.6	Scott Parsick		04/15/15 12:23	Disposed
MC36440-3.2	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-3.2	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-3.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-3.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-3.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-3.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-3.6	Scott Parsick		04/15/15 12:23	Disposed
MC36440-4.2	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-4.2	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-4.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-4.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-4.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-4.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-4.6	Scott Parsick		04/15/15 12:23	Disposed
MC36440-5.2	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-5.2	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-5.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-5.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-5.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-5.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-5.6	Scott Parsick		04/15/15 12:23	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/16/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36440-6.1	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-6.1	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-6.6	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-6.6	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-6.6	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-6.6	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-6.6	Scott Parsick		04/15/15 12:23	Disposed
MC36440-7.1	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-7.1	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-7.2	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-7.2	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-7.3	Walk In Ref #22	Alireza Zeighami	01/16/15 14:58	Retrieve from Storage
MC36440-7.3	Alireza Zeighami		01/19/15 06:22	Depleted
MC36440-7.13	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-7.13	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-7.13	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-7.13	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-7.13	Scott Parsick		04/15/15 12:23	Disposed
MC36440-7.14	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-7.14	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-7.14	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-7.14	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-7.14	Scott Parsick		04/15/15 12:23	Disposed
MC36440-7.15	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-7.15	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-7.15	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-7.15	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-7.15	Scott Parsick		04/15/15 12:23	Disposed
MC36440-7.18	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage
MC36440-7.18	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-7.18	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-7.18	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-7.18	Scott Parsick		04/15/15 12:23	Disposed
MC36440-8.2	VOC Ref #2	Gary Krasinski	01/23/15 12:38	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/16/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36440-8.2	Gary Krasinski	GCMSL	01/23/15 12:38	Load on Instrument
MC36440-8.2	GCMSL	Gary Krasinski	01/26/15 09:11	Unload from Instrument
MC36440-8.2	Gary Krasinski	VOC Ref #2	01/26/15 09:11	Return to Storage
MC36440-8.2	Scott Parsick		04/15/15 12:23	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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-MB	L90430.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

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

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	56.1	112	10-147
107-02-8	Acrolein	250	187	75	10-170
107-13-1	Acrylonitrile	50	43.8	88	51-154
71-43-2	Benzene	50	45.4	91	74-127
108-86-1	Bromobenzene	50	49.8	100	77-124
74-97-5	Bromochloromethane	50	48.5	97	76-128
75-27-4	Bromodichloromethane	50	50.1	100	68-156
75-25-2	Bromoform	50	51.3	103	70-134
74-83-9	Bromomethane	50	59.9	120	14-180
78-93-3	2-Butanone (MEK)	50	63.5	127	23-148
104-51-8	n-Butylbenzene	50	52.0	104	75-140
135-98-8	sec-Butylbenzene	50	48.2	96	74-139
98-06-6	tert-Butylbenzene	50	48.7	97	71-141
75-15-0	Carbon disulfide	50	43.2	86	45-156
56-23-5	Carbon tetrachloride	50	50.7	101	67-152
108-90-7	Chlorobenzene	50	46.3	93	76-121
75-00-3	Chloroethane	50	54.1	108	54-177
110-75-8	2-Chloroethyl vinyl ether	50	60.1	120	36-178
67-66-3	Chloroform	50	47.4	95	68-139
74-87-3	Chloromethane	50	52.6	105	33-171
95-49-8	o-Chlorotoluene	50	47.3	95	76-131
106-43-4	p-Chlorotoluene	50	47.8	96	76-130
124-48-1	Dibromochloromethane	50	51.3	103	82-130
95-50-1	1,2-Dichlorobenzene	50	47.6	95	81-127
541-73-1	1,3-Dichlorobenzene	50	45.9	92	80-124
106-46-7	1,4-Dichlorobenzene	50	47.2	94	78-124
75-71-8	Dichlorodifluoromethane	50	49.9	100	10-185
75-34-3	1,1-Dichloroethane	50	43.8	88	69-140
107-06-2	1,2-Dichloroethane	50	51.3	103	64-149
75-35-4	1,1-Dichloroethene	50	42.4	85	58-142
156-59-2	cis-1,2-Dichloroethene	50	47.0	94	68-129
156-60-5	trans-1,2-Dichloroethene	50	46.4	93	61-133
78-87-5	1,2-Dichloropropane	50	47.5	95	74-135
142-28-9	1,3-Dichloropropane	50	53.9	108	76-121
594-20-7	2,2-Dichloropropane	50	57.3	115	62-157
563-58-6	1,1-Dichloropropene	50	45.5	91	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	59.8	120	75-138
10061-02-6	trans-1,3-Dichloropropene	50	49.8	100	70-150
123-91-1	1,4-Dioxane	250	197	79	52-165
97-63-2	Ethyl methacrylate	50	51.3	103	62-138
100-41-4	Ethylbenzene	50	48.5	97	75-129
87-68-3	Hexachlorobutadiene	50	55.4	111	59-150
591-78-6	2-Hexanone	50	64.8	130	28-137
98-82-8	Isopropylbenzene	50	47.1	94	76-138
99-87-6	p-Isopropyltoluene	50	51.0	102	77-137
1634-04-4	Methyl Tert Butyl Ether	50	58.7	117	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.8	104	48-153
74-95-3	Methylene bromide	50	47.2	94	74-134
75-09-2	Methylene chloride	50	46.8	94	62-134
91-20-3	Naphthalene	50	46.0	92	32-196
103-65-1	n-Propylbenzene	50	46.7	93	74-138
100-42-5	Styrene	50	51.3	103	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	52.4	105	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	47.2	94	64-132
127-18-4	Tetrachloroethene	50	47.1	94	68-133
108-88-3	Toluene	50	47.1	94	75-134
87-61-6	1,2,3-Trichlorobenzene	50	54.7	109	51-169
120-82-1	1,2,4-Trichlorobenzene	50	54.5	109	62-146
71-55-6	1,1,1-Trichloroethane	50	49.6	99	66-152
79-00-5	1,1,2-Trichloroethane	50	49.0	98	70-138
79-01-6	Trichloroethene	50	46.4	93	70-131
75-69-4	Trichlorofluoromethane	50	53.0	106	43-168
96-18-4	1,2,3-Trichloropropane	50	50.8	102	61-134
95-63-6	1,2,4-Trimethylbenzene	50	47.4	95	76-133
108-67-8	1,3,5-Trimethylbenzene	50	48.1	96	72-131
108-05-4	Vinyl Acetate	50	104	208* [a]	10-200
75-01-4	Vinyl chloride	50	53.2	106	32-182
	m,p-Xylene	100	90.7	91	74-129
95-47-6	o-Xylene	50	44.5	89	77-127
1330-20-7	Xylene (total)	150	135	90	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4003-BS	L90428.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	99%	79-121%
460-00-4	4-Bromofluorobenzene	96%	71-133%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	MC36440-7 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	38.4	77	50	24.0	48	46* [a]	10-135/30
107-02-8	Acrolein	ND		250	168	67	250	150	60	11	10-165/30
107-13-1	Acrylonitrile	ND		50	52.2	104	50	42.3	85	21	43-165/30
71-43-2	Benzene	3.0		50	48.1	90	50	52.6	99	9	69-136/30
108-86-1	Bromobenzene	ND		50	47.2	94	50	54.9	110	15	74-127/30
74-97-5	Bromochloromethane	ND		50	47.0	94	50	51.4	103	9	73-134/30
75-27-4	Bromodichloromethane	ND		50	47.8	96	50	55.3	111	15	63-163/30
75-25-2	Bromoform	ND		50	55.4	111	50	49.8	100	11	61-140/30
74-83-9	Bromomethane	ND		50	36.0	72	50	78.3	157	74* [a]	10-175/30
78-93-3	2-Butanone (MEK)	ND		50	46.4	93	50	30.9	62	40* [a]	19-130/30
104-51-8	n-Butylbenzene	ND		50	49.4	99	50	55.8	112	12	65-147/30
135-98-8	sec-Butylbenzene	1.4	J	50	47.7	93	50	54.7	107	14	72-143/30
98-06-6	tert-Butylbenzene	5.9		50	51.5	91	50	60.2	109	16	66-146/30
75-15-0	Carbon disulfide	ND		50	43.6	87	50	53.2	106	20	33-170/30
56-23-5	Carbon tetrachloride	ND		50	46.3	93	50	58.4	117	23	61-163/30
108-90-7	Chlorobenzene	ND		50	46.3	93	50	52.4	105	12	73-127/30
75-00-3	Chloroethane	ND		50	47.2	94	50	66.5	133	34* [a]	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	71.8	60	50	102	121	35* [a]	10-200/30
67-66-3	Chloroform	ND		50	46.7	93	50	54.1	108	15	65-146/30
74-87-3	Chloromethane	ND		50	37.3	75	50	57.7	115	43* [a]	23-176/30
95-49-8	o-Chlorotoluene	ND		50	44.7	89	50	52.5	105	16	67-142/30
106-43-4	p-Chlorotoluene	ND		50	45.7	91	50	53.8	108	16	70-137/30
124-48-1	Dibromochloromethane	ND		50	52.3	105	50	52.8	106	1	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		50	44.9	90	50	49.6	99	10	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		50	44.1	88	50	51.1	102	15	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		50	43.8	88	50	50.5	101	14	75-126/30
75-71-8	Dichlorodifluoromethane	ND		50	45.2	90	50	55.5	111	20	10-184/30
75-34-3	1,1-Dichloroethane	ND		50	42.8	86	50	50.4	101	16	66-148/30
107-06-2	1,2-Dichloroethane	ND		50	53.5	107	50	54.3	109	1	59-157/30
75-35-4	1,1-Dichloroethene	ND		50	41.4	83	50	48.9	98	17	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		50	46.4	93	50	54.3	109	16	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		50	41.2	82	50	51.5	103	22	57-142/30
78-87-5	1,2-Dichloropropane	ND		50	47.7	95	50	52.7	105	10	70-142/30
142-28-9	1,3-Dichloropropane	ND		50	54.2	108	50	52.9	106	2	73-126/30
594-20-7	2,2-Dichloropropane	ND		50	32.6	65	50	63.0	126	64* [a]	45-168/30
563-58-6	1,1-Dichloropropene	ND		50	47.1	94	50	51.7	103	9	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Compound	MC36440-7 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	61.0	122	50	62.5	125	2	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	53.3	107	50	47.5	95	12	64-153/30
123-91-1	1,4-Dioxane	ND		250	245	98	250	151	60	47* [a]	38-165/30
97-63-2	Ethyl methacrylate	ND		50	61.2	122	50	50.5	101	19	54-149/30
100-41-4	Ethylbenzene	ND		50	49.2	98	50	54.8	110	11	67-141/30
87-68-3	Hexachlorobutadiene	ND		50	53.9	108	50	57.6	115	7	52-152/30
591-78-6	2-Hexanone	ND		50	54.3	109	50	36.1	72	40* [a]	25-118/30
98-82-8	Isopropylbenzene	5.7		50	49.7	88	50	59.1	107	17	71-144/30
99-87-6	p-Isopropyltoluene	ND		50	49.1	98	50	56.1	112	13	72-141/30
1634-04-4	Methyl Tert Butyl Ether	21.5		50	86.0	129	50	73.2	103	16	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	66.3	133	50	45.5	91	37* [a]	46-158/30
74-95-3	Methylene bromide	ND		50	46.6	93	50	47.7	95	2	70-141/30
75-09-2	Methylene chloride	ND		50	43.4	87	50	50.4	101	15	58-143/30
91-20-3	Naphthalene	ND		50	49.3	99	50	40.8	82	19	19-200/30
103-65-1	n-Propylbenzene	1.8	J	50	46.1	89	50	54.4	105	17	67-145/30
100-42-5	Styrene	ND		50	51.6	103	50	57.0	114	10	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	52.4	105	50	58.6	117	11	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	48.2	96	50	42.8	86	12	61-137/30
127-18-4	Tetrachloroethene	ND		50	47.5	95	50	53.4	107	12	64-139/30
108-88-3	Toluene	1.4		50	50.3	98	50	54.4	106	8	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	56.7	113	50	52.4	105	8	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.2	106	50	53.8	108	1	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		50	46.5	93	50	57.6	115	21	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		50	52.0	104	50	49.9	100	4	65-145/30
79-01-6	Trichloroethene	ND		50	48.4	97	50	53.5	107	10	64-139/30
75-69-4	Trichlorofluoromethane	ND		50	49.9	100	50	59.1	118	17	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		50	53.0	106	50	44.6	89	17	53-137/30
95-63-6	1,2,4-Trimethylbenzene	0.37	J	50	45.6	90	50	53.0	105	15	66-142/30
108-67-8	1,3,5-Trimethylbenzene	0.31	J	50	47.3	94	50	54.6	109	14	68-135/30
108-05-4	Vinyl Acetate	ND		50	147	294* [b]	50	137	274* [b]	7	10-200/30
75-01-4	Vinyl chloride	ND		50	43.4	87	50	61.0	122	34* [a]	25-187/30
	m,p-Xylene	7.6		100	97.6	90	100	109	101	11	67-138/30
95-47-6	o-Xylene	1.5		50	46.2	89	50	52.1	101	12	72-135/30
1330-20-7	Xylene (total)	9.0		150	144	90	150	161	101	11	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36440-7MS	L90443.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7MSD	L90444.D	1	01/23/15	GK	n/a	n/a	MSL4003
MC36440-7	L90437.D	1	01/23/15	GK	n/a	n/a	MSL4003

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-8

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-7	Limits
1868-53-7	Dibromofluoromethane	100%	102%	102%	67-134%
2037-26-5	Toluene-D8	102%	100%	100%	79-121%
460-00-4	4-Bromofluorobenzene	93%	98%	98%	71-133%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4003-CC4003	**Injection Date:**	01/23/15
Lab File ID:	L90428.D	**Injection Time:**	11:24
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	307722	8.10	453746	8.91	224292	12.11	222867	14.65	56261	5.85
Upper Limit [a]	615444	8.60	907492	9.41	448584	12.61	445734	15.15	112522	6.35
Lower Limit [b]	153861	7.60	226873	8.41	112146	11.61	111434	14.15	28131	5.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4003-BS	307722	8.10	453746	8.91	224292	12.11	222867	14.65	56261	5.85
MSL4003-MB	296768	8.10	445765	8.92	204091	12.11	188323	14.65	53773	5.92
MC36440-8	307934	8.10	455162	8.92	211700	12.11	195581	14.65	55128	5.92
MC36440-6	299047	8.10	448791	8.92	209102	12.11	188539	14.65	58185	5.92
ZZZZZZ	293973	8.10	433597	8.92	205173	12.11	185430	14.65	52746	5.93
ZZZZZZ	291671	8.11	429873	8.92	193677	12.12	175480	14.65	43805	5.93
ZZZZZZ	291464	8.11	429982	8.92	200295	12.11	185308	14.65	55305	5.91
ZZZZZZ	295372	8.11	427685	8.92	196977	12.12	170101	14.65	31904	5.96
MC36440-7	263254	8.10	387520	8.92	190431	12.11	187319	14.65	56636	5.88
MC36440-1	267219	8.10	403916	8.92	192428	12.11	175927	14.65	45494	5.91
MC36440-2	254936	8.11	375776	8.93	171850	12.11	161556	14.65	50862	5.92
MC36440-3	294937	8.10	437158	8.92	202063	12.12	183772	14.65	39488	5.93
MC36440-4	249652	8.10	368985	8.92	180495	12.11	183010	14.65	68890	5.89
MC36440-5	287533	8.10	423194	8.92	196211	12.12	175134	14.65	30035	5.96
MC36440-7MS	290245	8.10	420139	8.91	214067	12.10	225440	14.65	77080	5.84
MC36440-7MSD	270715	8.10	402794	8.92	199143	12.11	197851	14.65	37476	5.86
ZZZZZZ	301797	8.10	439853	8.92	206637	12.11	205164	14.65	83754	5.89
ZZZZZZ	275437	8.11	404801	8.92	180633	12.12	161523	14.65	28398	5.96
ZZZZZZ	306612	8.10	451810	8.92	206347	12.11	200766	14.65	63912	5.91
ZZZZZZ	292321	8.11	433191	8.92	201626	12.12	190287	14.65	66163	5.90
ZZZZZZ	293966	8.10	426144	8.92	201236	12.11	194754	14.65	66470	5.89
ZZZZZZ	286413	8.10	427997	8.92	195215	12.11	182754	14.65	55940	5.91
ZZZZZZ	281366	8.10	414239	8.92	194524	12.11	179569	14.65	52491	5.92

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36440-1	L90438.D	105	101	101
MC36440-2	L90439.D	100	98	101
MC36440-3	L90440.D	104	97	104
MC36440-4	L90441.D	100	100	96
MC36440-5	L90442.D	103	98	105
MC36440-6	L90432.D	105	100	104
MC36440-7	L90437.D	102	100	98
MC36440-8	L90431.D	104	99	102
MC36440-7MS	L90443.D	100	102	93
MC36440-7MSD	L90444.D	102	100	98
MSL4003-BS	L90428.D	100	99	96
MSL4003-MB	L90430.D	103	97	104

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-MB	W19975.D	1	01/21/15	KD	01/16/15	OP41671	MSW871

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	0.36	5.0	0.25	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-MB	W19975.D	1	01/21/15	KD	01/16/15	OP41671	MSW871

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	36%	15-110%
118-79-6	2,4,6-Tribromophenol	100%	15-110%
4165-60-0	Nitrobenzene-d5	92%	30-130%
321-60-8	2-Fluorobiphenyl	84%	30-130%
1718-51-0	Terphenyl-d14	105%	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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41675-MB	I93924.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	90%	30-130%
321-60-8	2-Fluorobiphenyl	79%	30-130%
1718-51-0	Terphenyl-d14	111%	30-130%

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-BS	W19980.D	1	01/21/15	KD	01/16/15	OP41671	MSW872

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	21.6	43	30-130
95-57-8	2-Chlorophenol	50	39.8	80	30-130
59-50-7	4-Chloro-3-methyl phenol	50	43.0	86	30-130
120-83-2	2,4-Dichlorophenol	50	43.3	87	30-130
105-67-9	2,4-Dimethylphenol	50	36.6	73	30-130
51-28-5	2,4-Dinitrophenol	50	42.8	86	30-130
534-52-1	4,6-Dinitro-o-cresol	50	48.8	98	30-130
95-48-7	2-Methylphenol	50	33.4	67	30-130
	3&4-Methylphenol	100	63.1	63	30-130
88-75-5	2-Nitrophenol	50	44.1	88	30-130
100-02-7	4-Nitrophenol	50	20.1	40	30-130
87-86-5	Pentachlorophenol	50	48.8	98	30-130
108-95-2	Phenol	50	15.7	31	30-130
95-95-4	2,4,5-Trichlorophenol	50	48.4	97	30-130
88-06-2	2,4,6-Trichlorophenol	50	47.2	94	30-130
62-53-3	Aniline	50	30.2	60	40-140
101-55-3	4-Bromophenyl phenyl ether	50	44.9	90	40-140
85-68-7	Butyl benzyl phthalate	50	46.4	93	40-140
100-51-6	Benzyl Alcohol	50	43.0	86	40-140
91-58-7	2-Chloronaphthalene	50	46.9	94	40-140
106-47-8	4-Chloroaniline	50	38.5	77	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	45.9	92	40-140
111-44-4	bis(2-Chloroethyl)ether	50	44.2	88	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	51.2	102	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.8	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	43.7	87	40-140
121-14-2	2,4-Dinitrotoluene	50	46.6	93	40-140
606-20-2	2,6-Dinitrotoluene	50	44.4	89	40-140
91-94-1	3,3'-Dichlorobenzidine	50	46.1	92	40-140
132-64-9	Dibenzofuran	50	45.8	92	40-140
84-74-2	Di-n-butyl phthalate	50	44.1	88	40-140
117-84-0	Di-n-octyl phthalate	50	49.2	98	40-140
84-66-2	Diethyl phthalate	50	45.2	90	40-140
131-11-3	Dimethyl phthalate	50	45.2	90	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.0	102	40-140
118-74-1	Hexachlorobenzene	50	45.2	90	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-BS	W19980.D	1	01/21/15	KD	01/16/15	OP41671	MSW872

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	25.7	51	40-140
67-72-1	Hexachloroethane	50	37.2	74	40-140
78-59-1	Isophorone	50	40.3	81	40-140
88-74-4	2-Nitroaniline	50	48.7	97	40-140
99-09-2	3-Nitroaniline	50	39.8	80	40-140
100-01-6	4-Nitroaniline	50	43.9	88	40-140
98-95-3	Nitrobenzene	50	42.3	85	40-140
62-75-9	n-Nitrosodimethylamine	50	31.9	64	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	47.9	96	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	40-140
110-86-1	Pyridine	50	21.9	44	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	94%	15-110%
4165-60-0	Nitrobenzene-d5	90%	30-130%
321-60-8	2-Fluorobiphenyl	89%	30-130%
1718-51-0	Terphenyl-d14	102%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41675-BS	I93925.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	40.5	81	45-120
208-96-8	Acenaphthylene	50	42.6	85	31-120
120-12-7	Anthracene	50	40.2	80	51-120
56-55-3	Benzo(a)anthracene	50	46.8	94	46-139
50-32-8	Benzo(a)pyrene	50	47.5	95	39-125
205-99-2	Benzo(b)fluoranthene	50	48.3	97	41-137
191-24-2	Benzo(g,h,i)perylene	50	46.4	93	47-132
207-08-9	Benzo(k)fluoranthene	50	39.8	80	46-131
218-01-9	Chrysene	50	42.9	86	43-129
53-70-3	Dibenzo(a,h)anthracene	50	45.3	91	42-138
206-44-0	Fluoranthene	50	44.1	88	47-134
86-73-7	Fluorene	50	41.1	82	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.5	93	41-137
90-12-0	1-Methylnaphthalene	50	37.5	75	39-120
91-57-6	2-Methylnaphthalene	50	38.2	76	22-126
85-01-8	Phenanthrene	50	39.4	79	51-120
129-00-0	Pyrene	50	44.9	90	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	88%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	104%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-MS	W19981.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
OP41671-MSD	W19982.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
MC36440-7	W19983.D	1	01/21/15	KD	01/16/15	OP41671	MSW872

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	MC36440-7 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		51.5	24.8	48	54.9	17.3	31	36* a	30-130/20
95-57-8	2-Chlorophenol	ND		51.5	41.6	81	54.9	42.9	78	3	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		51.5	45.2	88	54.9	49.0	89	8	30-130/20
120-83-2	2,4-Dichlorophenol	ND		51.5	44.4	86	54.9	47.1	86	6	30-130/20
105-67-9	2,4-Dimethylphenol	ND		51.5	42.3	82	54.9	42.9	78	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		51.5	54.5	106	54.9	52.8	96	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		51.5	54.6	106	54.9	57.0	104	4	30-130/20
95-48-7	2-Methylphenol	ND		51.5	35.6	69	54.9	39.0	71	9	30-130/20
	3&4-Methylphenol	ND		103	65.0	63	110	73.1	67	12	30-130/20
88-75-5	2-Nitrophenol	ND		51.5	45.5	88	54.9	47.4	86	4	30-130/20
100-02-7	4-Nitrophenol	ND		51.5	20.9	41	54.9	22.5	41	7	30-130/20
87-86-5	Pentachlorophenol	ND		51.5	56.9	110	54.9	59.7	109	5	30-130/20
108-95-2	Phenol	ND		51.5	15.0	29* b	54.9	17.6	32	16	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		51.5	50.8	99	54.9	52.5	96	3	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		51.5	48.9	95	54.9	50.4	92	3	30-130/20
62-53-3	Aniline	ND		51.5	27.5	53	54.9	17.8	32* b	43* a	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		51.5	46.0	89	54.9	48.3	88	5	40-140/20
85-68-7	Butyl benzyl phthalate	ND		51.5	46.2	90	54.9	49.4	90	7	40-140/20
100-51-6	Benzyl Alcohol	ND		51.5	40.7	79	54.9	44.2	80	8	40-140/20
91-58-7	2-Chloronaphthalene	ND		51.5	47.3	92	54.9	47.4	86	0	40-140/20
106-47-8	4-Chloroaniline	ND		51.5	30.5	59	54.9	29.2	53	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		51.5	44.8	87	54.9	46.1	84	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		51.5	41.9	81	54.9	43.5	79	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		51.5	51.2	99	54.9	52.1	95	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		51.5	47.3	92	54.9	48.2	88	2	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		51.5	44.5	86	54.9	47.6	87	7	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		51.5	47.8	93	54.9	48.4	88	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		51.5	47.0	91	54.9	46.2	84	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		51.5	3.0	6* b	54.9	4.4	8* b	38* a	40-140/20
132-64-9	Dibenzofuran	ND		51.5	47.0	91	54.9	47.6	87	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		51.5	44.7	87	54.9	47.0	86	5	40-140/20
117-84-0	Di-n-octyl phthalate	ND		51.5	49.4	96	54.9	50.8	92	3	40-140/20
84-66-2	Diethyl phthalate	ND		51.5	45.9	89	54.9	47.6	87	4	40-140/20
131-11-3	Dimethyl phthalate	ND		51.5	46.4	90	54.9	47.7	87	3	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		51.5	47.6	92	54.9	51.0	93	7	40-140/20
118-74-1	Hexachlorobenzene	ND		51.5	45.1	87	54.9	47.3	86	5	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41671-MS	W19981.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
OP41671-MSD	W19982.D	1	01/21/15	KD	01/16/15	OP41671	MSW872
MC36440-7	W19983.D	1	01/21/15	KD	01/16/15	OP41671	MSW872

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	MC36440-7 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		51.5	23.1	45	54.9	22.2	40	4	40-140/20
67-72-1	Hexachloroethane	ND		51.5	32.0	62	54.9	32.1	58	0	40-140/20
78-59-1	Isophorone	ND		51.5	41.0	80	54.9	42.0	76	2	40-140/20
88-74-4	2-Nitroaniline	ND		51.5	50.2	97	54.9	51.2	93	2	40-140/20
99-09-2	3-Nitroaniline	ND		51.5	37.2	72	54.9	38.3	70	3	40-140/20
100-01-6	4-Nitroaniline	ND		51.5	36.8	71	54.9	40.5	74	10	40-140/20
98-95-3	Nitrobenzene	ND		51.5	43.5	84	54.9	42.5	77	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		51.5	31.8	62	54.9	33.5	61	5	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		51.5	46.1	89	54.9	48.7	89	5	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		51.5	43.0	83	54.9	44.9	82	4	40-140/20
110-86-1	Pyridine	ND		51.5	23.2	45	54.9	9.3	17* [b]	86* [a]	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-7	Limits
367-12-4	2-Fluorophenol	47%	49%	49%	15-110%
4165-62-2	Phenol-d5	31%	32%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	100%	95%	99%	15-110%
4165-60-0	Nitrobenzene-d5	89%	82%	88%	30-130%
321-60-8	2-Fluorobiphenyl	86%	80%	84%	30-130%
1718-51-0	Terphenyl-d14	98%	101%	104%	30-130%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41675-MS	I93926.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
OP41675-MSD	I93927.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504
MC36440-7	I93928.D	1	01/21/15	MR	01/16/15	OP41675	MSI3504

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7

CAS No.	Compound	MC36440-7 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	0.12		51.5	40.7	79	54.9	43.6	79	7	41-120/20
208-96-8	Acenaphthylene	ND		51.5	41.8	81	54.9	45.1	82	8	30-120/20
120-12-7	Anthracene	0.070	J	51.5	40.6	79	54.9	43.6	79	7	47-120/20
56-55-3	Benzo(a)anthracene	0.035	J	51.5	47.9	93	54.9	50.8	92	6	36-139/20
50-32-8	Benzo(a)pyrene	ND		51.5	46.4	90	54.9	49.7	90	7	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		51.5	45.2	88	54.9	49.9	91	10	31-137/20
191-24-2	Benzo(g,h,i)perylene	0.020	J	51.5	45.8	89	54.9	48.8	89	6	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		51.5	42.6	83	54.9	44.2	80	4	34-133/20
218-01-9	Chrysene	0.025	J	51.5	44.1	86	54.9	46.3	84	5	34-129/20
53-70-3	Dibenzo(a,h)anthracene	0.017	J	51.5	44.9	87	54.9	47.9	87	6	29-140/20
206-44-0	Fluoranthene	0.037	J	51.5	45.6	88	54.9	48.2	88	6	42-132/20
86-73-7	Fluorene	ND		51.5	40.8	79	54.9	44.0	80	8	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	J	51.5	46.1	89	54.9	49.0	89	6	28-139/20
90-12-0	1-Methylnaphthalene	0.71	J	51.5	38.1	73	54.9	39.2	70	3	33-120/20
91-57-6	2-Methylnaphthalene	ND		51.5	39.0	76	54.9	40.0	73	3	20-125/20
85-01-8	Phenanthrene	0.039	J	51.5	39.4	76	54.9	41.4	75	5	47-120/20
129-00-0	Pyrene	0.038	J	51.5	46.3	90	54.9	49.1	89	6	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-7	Limits
4165-60-0	Nitrobenzene-d5	85%	81%	85%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	77%	30-130%
1718-51-0	Terphenyl-d14	104%	104%	107%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3504-CC3483	**Injection Date:**	01/21/15
Lab File ID:	I93923.D	**Injection Time:**	08:01
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	278392	3.66	544313	4.70	314705	6.22	548942	7.54	389624	10.31	982925	11.75
Upper Limit [a]	556784	4.16	1088626	5.20	629410	6.72	1097884	8.04	779248	10.81	1965850	12.25
Lower Limit [b]	139196	3.16	272157	4.20	157353	5.72	274471	7.04	194812	9.81	491463	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
OP41675-MB	272446	3.66	543897	4.70	311700	6.22	531575	7.54	379048	10.31	953096	11.75
OP41675-BS	291995	3.67	592878	4.71	326275	6.23	584569	7.55	411783	10.32	984254	11.75
OP41675-MS	274825	3.67	548467	4.71	306464	6.23	541527	7.55	376374	10.32	925146	11.75
OP41675-MSD	282625	3.65	573874	4.70	317112	6.23	568272	7.55	393082	10.32	951705	11.75
MC36440-7	267750	3.67	526789	4.70	303166	6.23	515914	7.54	372833	10.31	912391	11.75
ZZZZZZ	264522	3.67	556929	4.71	322286	6.23	548333	7.55	375306	10.32	893965	11.75
ZZZZZZ	256973	3.67	539404	4.71	310208	6.23	529172	7.55	355037	10.32	841792	11.75
MC36440-1	266412	3.67	551704	4.71	318823	6.23	548284	7.54	382680	10.31	909879	11.75
MC36440-2	278078	3.67	568295	4.71	180564	6.22	538946	7.54	342765	10.31	219368[c]	11.74
MC36440-3	262293	3.67	534978	4.71	304754	6.23	520223	7.54	360668	10.31	867516	11.75
MC36440-4	267366	3.67	553033	4.71	319351	6.23	544569	7.54	381962	10.31	913974	11.75
MC36440-5	271139	3.67	553175	4.71	314055	6.23	533887	7.54	371488	10.31	895797	11.75
MC36440-6	291881	3.67	591539	4.71	338716	6.23	563997	7.54	397436	10.31	953423	11.75
OP41619-MB	266908	3.66	546340	4.70	313961	6.22	532046	7.54	386987	10.31	914603	11.75
OP41619-BS	286211	3.67	592599	4.71	332228	6.23	575644	7.55	404702	10.32	946157	11.75
OP41619-MS	287565	3.67	598866	4.71	335040	6.23	585661	7.55	405293	10.32	947465	11.75
OP41619-MSD	262449	3.67	538811	4.71	300474	6.23	519514	7.54	363320	10.32	846349	11.75
MC36225-30	284920	3.67	578489	4.70	330429	6.22	557067	7.54	382958	10.31	918518	11.75
ZZZZZZ	280306	3.67	570157	4.70	324098	6.22	544095	7.54	379880	10.31	901184	11.75
OP41670-MB	295156	3.67	597886	4.71	342752	6.22	575659	7.54	397229	10.31	939043	11.75
OP41670-BS	292860	3.67	602293	4.71	339020	6.23	580846	7.55	404323	10.32	954523	11.75
OP41670-BSD	296043	3.67	607956	4.71	339328	6.23	590690	7.55	406336	10.32	951761	11.75
ZZZZZZ	282892	3.67	575872	4.70	329104	6.22	554189	7.54	383283	10.31	900307	11.75
ZZZZZZ	297058	3.67	607268	4.71	337190	6.23	579577	7.56	406261	10.32	976363	11.75
ZZZZZZ	291367	3.67	581188	4.71	332459	6.23	565835	7.54	392919	10.31	935752	11.75
ZZZZZZ	324517	3.67	647194	4.71	365424	6.23	622600	7.55	415389	10.31	966253	11.75

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3504-CC3483	**Injection Date:**	01/21/15
Lab File ID:	I93923.D	**Injection Time:**	08:01
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3505-CC3483	**Injection Date:**	01/22/15
Lab File ID:	I93954.D	**Injection Time:**	08:31
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	273888	3.66	545047	4.70	314355	6.22	546633	7.54	388051	10.31	977199	11.75
Upper Limit [a]	547776	4.16	1090094	5.20	628710	6.72	1093266	8.04	776102	10.81	1954398	12.25
Lower Limit [b]	136944	3.16	272524	4.20	157178	5.72	273317	7.04	194026	9.81	488600	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
OP41700-MB	299850	3.66	606166	4.70	347365	6.22	578082	7.54	421258	10.31	1046470	11.75
OP41700-BS	306530	3.67	628552	4.71	343493	6.23	610588	7.55	430807	10.32	1048555	11.76
OP41700-MS	286552	3.67	587353	4.71	327909	6.23	584903	7.55	414670	10.32	1008621	11.75
OP41700-MSD	288054	3.67	593596	4.71	329617	6.23	591856	7.55	417473	10.32	1018249	11.75
MC36400-8	283287	3.66	583784	4.70	332788	6.22	564820	7.54	403668	10.31	1005301	11.75
ZZZZZZ	288506	3.67	554304	4.71	326470	6.23	560427	7.55	400006	10.31	1005761	11.75
MC36440-2 [c]	304684	3.66	614032	4.71	124867[d]	6.22	533728	7.54	275527	10.31	23109[e]	11.74
ZZZZZZ	265401	3.66	541710	4.70	309855	6.22	531016	7.54	384500	10.31	936933	11.75
ZZZZZZ	259751	3.66	532432	4.70	309477	6.22	535296	7.54	389561	10.31	961077	11.75
ZZZZZZ	290458	3.68	603639	4.71	374798	6.23	607604	7.56	431111	10.32	1026081	11.75
ZZZZZZ	278420	3.66	570075	4.70	322757	6.23	561186	7.55	407653	10.32	939443	11.76
ZZZZZZ	282223	3.66	578772	4.70	331119	6.22	568242	7.54	404966	10.31	1001415	11.75
ZZZZZZ	276451	3.67	573687	4.71	338169	6.23	572852	7.55	416610	10.32	1031616	11.76
ZZZZZZ	276410	3.67	555626	4.71	323513	6.23	544767	7.55	390950	10.32	963254	11.75

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.
(c) Confirmation run for surrogate recoveries.
(d) Outside control limits due to possible matrix interference. Confirmed by refractionation.
(e) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW871-CC868	**Injection Date:**	01/21/15
Lab File ID:	W19960.D	**Injection Time:**	08:11
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	179714	4.61	623371	5.72	395128	7.25	652368	8.52	662498	10.93	607787	12.50
Upper Limit [a]	359428	5.11	1246742	6.22	790256	7.75	1304736	9.02	1324996	11.43	1215574	13.00
Lower Limit [b]	89857	4.11	311686	5.22	197564	6.75	326184	8.02	331249	10.43	303894	12.00
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**
OP41707-MB	191298	4.61	638483	5.71	404178	7.24	682300	8.52	700073	10.92	655867	12.49
OP41707-BS	195072	4.61	655033	5.72	404936	7.25	664411	8.52	689140	10.92	627376	12.50
OP41707-BSD	210548	4.61	721222	5.72	453820	7.25	756010	8.52	778215	10.93	715251	12.50
OP41707-MS	202680	4.61	699973	5.72	433764	7.25	730823	8.52	746427	10.93	681113	12.50
OP41707-MSD	193223	4.61	653362	5.72	402902	7.25	668680	8.52	677742	10.93	599812	12.50
MC36462-1	189621	4.61	648815	5.71	412032	7.24	682951	8.51	722520	10.92	652881	12.49
ZZZZZZ	200238	4.61	678706	5.71	437864	7.24	729126	8.51	770266	10.92	706525	12.49
ZZZZZZ	162665	4.61	563658	5.71	357231	7.24	591587	8.51	625256	10.92	580182	12.49
ZZZZZZ	231424	4.61	791236	5.71	492936	7.24	820517	8.51	853706	10.92	775021	12.50
ZZZZZZ	206245	4.61	681917	5.71	434999	7.25	704649	8.51	709722	10.92	649745	12.49
ZZZZZZ	216654	4.61	745016	5.71	472590	7.24	785203	8.51	811630	10.92	749920	12.50
ZZZZZZ	188124	4.61	642136	5.71	408662	7.24	677093	8.51	722728	10.92	665603	12.49
ZZZZZZ	185573	4.61	629684	5.71	399899	7.24	664361	8.51	694699	10.92	625239	12.49
ZZZZZZ	215656	4.61	727961	5.71	456201	7.24	763155	8.51	761100	10.92	694187	12.50
OP41671-MB	172125	4.61	584658	5.71	385351	7.24	642410	8.51	695030	10.92	643465	12.49
ZZZZZZ	177822	4.61	612647	5.71	393537	7.25	669099	8.52	700676	10.93	646716	12.50

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW872-CC868	**Injection Date:**	01/21/15
Lab File ID:	W19979.D	**Injection Time:**	15:54
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	176126	4.61	610737	5.72	383452	7.25	640653	8.52	662640	10.92	621501	12.50
Upper Limit [a]	352252	5.11	1221474	6.22	766904	7.75	1281306	9.02	1325280	11.42	1243002	13.00
Lower Limit [b]	88063	4.11	305369	5.22	191726	6.75	320327	8.02	331320	10.42	310751	12.00

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
OP41671-BS	192832	4.61	654224	5.72	410403	7.25	690887	8.52	709104	10.92	652167	12.50
OP41671-MS	188718	4.61	632796	5.72	386459	7.25	641109	8.52	658783	10.93	599430	12.50
OP41671-MSD	183479	4.61	623889	5.71	393996	7.25	631146	8.52	642382	10.93	597562	12.50
MC36440-7	178683	4.61	592540	5.71	389042	7.24	633065	8.52	634737	10.92	609219	12.49
ZZZZZZ	169013	4.61	601287	5.72	380148	7.26	606259	8.53	638676	10.95	619344	12.54
ZZZZZZ	171343	4.62	575340	5.73	355517	7.27	586628	8.55	632937	10.97	611124	12.54
ZZZZZZ	172597	4.61	586505	5.72	379870	7.25	616954	8.52	622660	10.93	572979	12.50
ZZZZZZ	163434	4.61	563338	5.72	358700	7.25	586587	8.52	592892	10.93	552262	12.50
MC36440-1	179922	4.61	614559	5.71	392996	7.25	656103	8.52	643019	10.92	600377	12.50
MC36440-2	185701	4.61	650543	5.71	219126	7.25	639835	8.52	573946	10.92	151267[c]	12.50
MC36440-3	179101	4.61	605505	5.71	389293	7.25	646370	8.52	646559	10.92	596680	12.49
MC36440-4	174462	4.61	611296	5.71	392485	7.25	637325	8.52	640450	10.92	608086	12.50
MC36440-5	179683	4.61	617492	5.71	398686	7.25	651518	8.52	634872	10.92	582322	12.49
MC36440-6	194011	4.61	675572	5.71	434022	7.25	682098	8.52	666344	10.92	618270	12.49
OP41712-MB	223344	4.61	763185	5.71	482001	7.25	792640	8.52	759255	10.92	669533	12.50
OP41712-BS	201935	4.61	691754	5.72	421481	7.25	687752	8.52	664222	10.93	585453	12.50
ZZZZZZ	221705	4.61	744131	5.71	471860	7.25	768820	8.52	727515	10.92	637904	12.50
ZZZZZZ	200116	4.61	677122	5.71	427143	7.24	703214	8.52	679332	10.92	583997	12.50
ZZZZZZ	176130	4.61	599768	5.71	382022	7.24	617828	8.51	588983	10.92	514012	12.49
ZZZZZZ	223581	4.61	763887	5.71	474295	7.25	789248	8.52	750446	10.92	648797	12.50
ZZZZZZ	211175	4.61	710291	5.71	448865	7.24	733818	8.52	706351	10.92	627558	12.49
ZZZZZZ	215590	4.61	734789	5.71	458773	7.25	743139	8.52	721891	10.92	626549	12.49
OP41629-MB	207862	4.61	720286	5.71	451067	7.24	743316	8.51	704488	10.92	625869	12.49
OP41629-BS	188937	4.61	649028	5.71	402775	7.25	661717	8.52	637254	10.92	557881	12.50
OP41629-MS	186848	4.61	630998	5.71	405534	7.25	657591	8.52	643006	10.92	594089	12.50
OP41629-MSD	194061	4.61	681827	5.71	437924	7.25	713344	8.52	697544	10.92	638356	12.50
MC36341-1	194722	4.61	667225	5.71	424270	7.24	676922	8.52	659241	10.92	612643	12.50
ZZZZZZ	207927	4.61	713905	5.71	448049	7.24	725174	8.51	693546	10.92	598741	12.49

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW872-CC868	**Injection Date:**	01/21/15
Lab File ID:	W19979.D	**Injection Time:**	15:54
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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

(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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX177-CC176	**Injection Date:**	01/22/15
Lab File ID:	X05425.D	**Injection Time:**	08:29
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	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	593731	4.31	2278871	5.37	1317013	6.91	2267892	8.20	2201844	10.84	1801339	12.57
Upper Limit [a]	1187462	4.81	4557742	5.87	2634026	7.41	4535784	8.70	4403688	11.34	3602678	13.07
Lower Limit [b]	296866	3.81	1139436	4.87	658507	6.41	1133946	7.70	1100922	10.34	900670	12.07

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
OP41699-MB	607160	4.31	2427948	5.37	1396360	6.90	2371764	8.20	2389329	10.83	2149669	12.57
OP41699-BS	628551	4.31	2543317	5.37	1469157	6.91	2470239	8.20	2313178	10.84	2149795	12.57
OP41699-MS	640668	4.31	2443652	5.37	1326523	6.91	2395171	8.20	2252578	10.84	1792685	12.57
OP41699-MSD	633874	4.31	2448743	5.37	1397710	6.91	2367940	8.20	2243063	10.84	1999033	12.57
MC36400-7	616849	4.31	2379308	5.37	1390672	6.90	2408407	8.20	2223460	10.83	2078068	12.57
MC36440-2 [c]	675829	4.31	2504672	5.37	340249[d]	6.90	1913652	8.20	794200[e]	10.83	13393[f]	12.56
ZZZZZZ	648997	4.31	2511622	5.37	1454454	6.91	2467591	8.20	2189343	10.83	1996580	12.57
ZZZZZZ	681350	4.31	2616069	5.37	1475715	6.91	2399860	8.20	2041176	10.83	1903717	12.57
ZZZZZZ	619474	4.31	2443087	5.37	1372955	6.90	2420663	8.20	2353254	10.83	2104457	12.57
ZZZZZZ	659672	4.31	2424642	5.37	1448362	6.91	2448071	8.20	2311235	10.83	2106624	12.57
ZZZZZZ	603715	4.31	2286764	5.37	1298147	6.91	2256717	8.20	2228283	10.83	1968883	12.57
ZZZZZZ	589118	4.31	2228073	5.37	1279848	6.90	2141231	8.20	2272406	10.83	2009774	12.57
ZZZZZZ	589118	4.31	2228073	5.37	1279848	6.90	2141231	8.20	2272406	10.83	2009774	12.57
ZZZZZZ	572755	4.31	2278109	5.37	1295465	6.90	2339209	8.20	2264232	10.83	2003983	12.57
ZZZZZZ	572755	4.31	2278109	5.37	1295465	6.90	2339209	8.20	2264232	10.83	2003983	12.57
ZZZZZZ	634195	4.31	2326078	5.37	1343536	6.90	2296876	8.20	2418528	10.83	2129157	12.57
ZZZZZZ	634195	4.31	2326078	5.37	1343536	6.90	2296876	8.20	2418528	10.83	2129157	12.57
ZZZZZZ	585107	4.31	2327497	5.37	1335524	6.90	2196875	8.20	2271318	10.83	2065780	12.57
ZZZZZZ	585107	4.31	2327497	5.37	1335524	6.90	2196875	8.20	2271318	10.83	2065780	12.57
OP41737-MB	725702	4.31	2653041	5.37	1596737	6.90	2730689	8.20	2393654	10.83	1792391	12.57
OP41737-BS	749844	4.31	2969704	5.37	1601832	6.91	2725588	8.20	2206359	10.83	2022564	12.57
ZZZZZZ	725930	4.31	2864791	5.37	1656496	6.90	2636728	8.20	2426614	10.83	1957989	12.57
ZZZZZZ	749131	4.31	2875655	5.37	1629439	6.90	2718857	8.20	2261960	10.83	1822145	12.57
ZZZZZZ	691040	4.31	2633817	5.37	1508839	6.90	2509919	8.20	2035492	10.83	1833132	12.57
ZZZZZZ	681301	4.31	2612579	5.37	1461462	6.90	2520020	8.20	1994415	10.83	1640545	12.57
ZZZZZZ	866097	4.31	3299970	5.37	1757096	6.90	2841269	8.20	2277111	10.83	1939839	12.57
ZZZZZZ	837869	4.31	3248072	5.37	1826793	6.90	3015946	8.20	2450325	10.83	1834368	12.57
ZZZZZZ	701546	4.31	2658392	5.37	1483672	6.90	2461608	8.19	2042641	10.83	1612952	12.56
ZZZZZZ	838226	4.31	3184854	5.37	1731733	6.90	2976934	8.20	2329946	10.83	1824864	12.57
ZZZZZZ	829448	4.31	3146059	5.37	1750084	6.90	3001835	8.20	2452321	10.83	1792680	12.56
ZZZZZZ	795683	4.31	3046332	5.37	1643673	6.90	2777260	8.20	2399552	10.83	1732038	12.56
OP41726-MB	675191	4.31	2608592	5.37	1466634	6.90	2431964	8.19	1972406	10.83	1602062	12.56
OP41726-BS	634763	4.31	2379189	5.37	1279757	6.90	2097722	8.20	1776321	10.83	1439766	12.57
OP41726-BSD	694118	4.31	2591825	5.37	1453686	6.91	2446514	8.20	1983547	10.83	1541820	12.57
ZZZZZZ	749145	4.31	2868676	5.37	1540756	6.90	2523697	8.20	2038990	10.83	1745618	12.57

Semivolatile Internal Standard Area Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX177-CC176	**Injection Date:**	01/22/15
Lab File ID:	X05425.D	**Injection Time:**	08:29
Instrument ID:	GCMSX	**Method:**	SW846 8270D

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
ZZZZZZ	817122	4.31	2990786	5.37	1661148	6.90	2702421	8.20	2083537	10.83	1878940	12.57
ZZZZZZ	746872	4.31	2880948	5.37	1593454	6.90	2592152	8.20	2040641	10.83	1664984	12.56

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.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.
(d) Outside control limits due to possible matrix interference.
(e) Outside control limits due to possible matrix interference. Confirmed by refractionation.
(f) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36440-1	W19988.D	51	33	94	87	84	100
MC36440-2	X05431.D	48	18	120* a	86	372* b	249* a
MC36440-2	W19989.D	49	24	99	82	155* b	113
MC36440-3	W19990.D	48	32	95	83	82	101
MC36440-4	W19991.D	54	35	95	86	84	102
MC36440-5	W19992.D	42	29	84	68	67	85
MC36440-6	W19993.D	43	28	91	74	72	100
MC36440-7	W19983.D	49	32	99	88	84	104
OP41671-BS	W19980.D	50	35	94	90	89	102
OP41671-MB	W19975.D	50	36	100	92	84	105
OP41671-MS	W19981.D	47	31	100	89	86	98
OP41671-MSD	W19982.D	49	32	95	82	80	101

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.
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36440-1	I93933.D	82	74	109
MC36440-2	I93961.D	84	205* [a]	147* [b]
MC36440-2	I93934.D	81	135* [a]	121
MC36440-3	I93935.D	80	74	109
MC36440-4	I93936.D	84	75	109
MC36440-5	I93937.D	67	62	92
MC36440-6	I93938.D	73	67	104
MC36440-7	I93928.D	85	77	107
OP41675-BS	I93925.D	88	82	104
OP41675-MB	I93924.D	90	79	111
OP41675-MS	I93926.D	85	77	104
OP41675-MSD	I93927.D	81	76	104

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

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(b) Outside control limits due to possible matrix interference.

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-MB	BB61538.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-9

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	129%	36-173%
460-00-4	Bromofluorobenzene (S)	121%	36-173%

Blank Spike Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-BS	BB61539.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.068	96	60-140
106-93-4	1,2-Dibromoethane	0.071	0.063	89	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	125%	36-173%
460-00-4	Bromofluorobenzene (S)	116%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-MS	BB61540.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
OP41739-MSD	BB61541.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
MC36440-1	BB61543.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36440-1, MC36440-2, MC36440-3, MC36440-4, MC36440-5, MC36440-6, MC36440-7, MC36440-9

CAS No.	Compound	MC36440-1 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		0.0683	0.069	101	0.0673	0.068	101	1	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0683	0.077	113	0.0673	0.069	102	11	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-1	Limits
460-00-4	Bromofluorobenzene (S)	126%	140%	135%	36-173%
460-00-4	Bromofluorobenzene (S)	126%	145%	139%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36440-1	BB61543.D	135	139
MC36440-2	BB61544.D	138	129
MC36440-3	BB61545.D	135	132
MC36440-4	BB61546.D	126	132
MC36440-5	BB61547.D	126	125
MC36440-6	BB61549.D	142	131
MC36440-7	BB61542.D	142	150
MC36440-9	BB61550.D	149	138
OP41739-BS	BB61539.D	125	116
OP41739-MB	BB61538.D	129	121
OP41739-MS	BB61540.D	126	126
OP41739-MSD	BB61541.D	140	145

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3381-CC3380	**Injection Date:**	01/21/15
Lab File ID:	BB61537.D	**Injection Time:**	07:59
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41739-MB	BB61538.D	01/21/15	08:26	4.81	4.93
OP41739-BS	BB61539.D	01/21/15	08:48	4.81	4.93
OP41739-MS	BB61540.D	01/21/15	09:10	4.81	4.93
OP41739-MSD	BB61541.D	01/21/15	09:32	4.81	4.93
MC36440-7	BB61542.D	01/21/15	09:54	4.81	4.93
MC36440-1	BB61543.D	01/21/15	10:16	4.81	4.93
MC36440-2	BB61544.D	01/21/15	10:38	4.81	4.93
MC36440-3	BB61545.D	01/21/15	11:00	4.81	4.93
MC36440-4	BB61546.D	01/21/15	11:22	4.81	4.93
MC36440-5	BB61547.D	01/21/15	11:43	4.81	4.93

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: MC36440
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3381-CC3380	**Injection Date:**	01/21/15
Lab File ID:	BB61548.D	**Injection Time:**	12:05
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC36440-6	BB61549.D	01/21/15	12:27	4.81	4.93
MC36440-9	BB61550.D	01/21/15	12:48	4.81	4.93
ZZZZZZ	BB61551.D	01/21/15	13:10	4.81	4.93
ZZZZZZ	BB61552.D	01/21/15	13:32	4.81	4.93
ZZZZZZ	BB61553.D	01/21/15	13:54	4.81	4.93
ZZZZZZ	BB61554.D	01/21/15	14:16	4.81	4.93
ZZZZZZ	BB61555.D	01/21/15	14:38	4.81	4.93
ZZZZZZ	BB61556.D	01/21/15	15:00	4.81	4.93
ZZZZZZ	BB61557.D	01/21/15	15:21	4.81	4.93
GBB3381-ECC338B	BB61558.D	01/21/15	15:44	4.81	4.93

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 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36465

Sampling Date: 01/16/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 104

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 03, 2016

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

RE: SGS Accutest Job # MC36465

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: MC36465

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC36465-1	01/16/15	09:20	DCDH	01/17/15	AQ	Ground Water	MW2-ROX-011615
MC36465-2	01/16/15	10:10	DCDH	01/17/15	AQ	Ground Water	MW22-ROX-011615
MC36465-3	01/16/15	12:50	DCDH	01/17/15	AQ	Ground Water	MW13-ROX-011615
MC36465-4	01/16/15	14:05	DCDH	01/17/15	AQ	Ground Water	MW14-ROX-011615
MC36465-5	01/16/15	14:50	DCDH	01/17/15	AQ	Ground Water	P66-ROX-011615
MC36465-6	01/16/15	14:50	DCDH	01/17/15	AQ	Ground Water	P66-ROX-011615-DUP
MC36465-7	01/16/15	00:00	DCDH	01/17/15	AQ	Trip Blank Water	TB-ROX-011615-HCL
MC36465-8	01/16/15	00:00	DCDH	01/17/15	AQ	Trip Blank Water	TB-ROX-011615-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36465

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 3: 3:46 PM

6 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 6/20 5 and were rece ved at SGS Accutest New Eng and on 0 / 7/20 5 proper y preserved, at 4 Deg C and ntact These Samp es rece ved a job number of MC36465 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 8260C

Matrix: AQ **Batch ID:** MSL4005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36465-4MS, MC36465-4MSD 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 Dup cate Recove y(s) for ,4-D oxane 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 ,4-D oxane, Acetone are outs de contro m ts for samp e MC36465-4MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- trans- ,2-D ch oroethene: 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

Matrix: AQ **Batch ID:** MSL4006

- 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) MC36545- 9MS, MC36545- 9MSD were used as the QC samp es nd cated

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 699

- 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) MC36400-7MS, MC36400-7MSD were used as the QC samp es nd cated
- In t a ca brat on ver f cat on MSX 76-ICV 76, f e X054 3 for 4-Ch oroan ne, Hexach orocyc opentad ene exceed 30% D fference
- Samp e(s) MC36465- , MC36465-3, MC36465-5 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 700

- 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) MC36400-8MS, MC36400-8MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 739

- 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) MC36440- MS, MC36440- MSD were used as the QC samp es nd cated
- Samp e(s) MC36465- , MC36465-2, MC36465-3, MC36465-5, MC36465-6 for Bromof uorobenzene (S): Outs de contro m ts Samp e non-detect for targets ana yte

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(MC36465)

Summary of Hits

Job Number: MC36465
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36465-1	MW2-ROX-011615					
Benzene		27.8	0.50	0.25	ug/l	SW846 8260C
Bromobenzene		0.45 J	5.0	0.35	ug/l	SW846 8260C
n-Butylbenzene		18.5	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		9.1	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		1.6 J	5.0	0.39	ug/l	SW846 8260C
Chloromethane		5.2	2.0	0.59	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.80 J	1.0	0.24	ug/l	SW846 8260C
1,3-Dichlorobenzene		0.84 J	1.0	0.16	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.99 J	1.0	0.31	ug/l	SW846 8260C
Ethylbenzene		358	1.0	0.25	ug/l	SW846 8260C
Hexachlorobutadiene		3.1 J	5.0	1.7	ug/l	SW846 8260C
2-Hexanone		3.9 J	5.0	1.6	ug/l	SW846 8260C
Isopropylbenzene		82.3	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		10.9	5.0	0.37	ug/l	SW846 8260C
4-Methyl-2-pentanone (MIBK)		6.1	5.0	0.99	ug/l	SW846 8260C
Naphthalene		62.6	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		107	5.0	0.49	ug/l	SW846 8260C
Styrene		0.52 J	5.0	0.29	ug/l	SW846 8260C
Toluene		12.1	1.0	0.22	ug/l	SW846 8260C
1,2,3-Trichlorobenzene		5.1	5.0	0.68	ug/l	SW846 8260C
1,2,4-Trichlorobenzene		4.4 J	5.0	0.19	ug/l	SW846 8260C
Trichloroethene		1.5	1.0	0.40	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		89.5	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		102	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		207	1.0	0.38	ug/l	SW846 8260C
o-Xylene		20.6	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		228	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate		0.34 JB	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.18	0.11	0.0079	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		10.8	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		23.6	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.025 J	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36465-2	MW22-ROX-011615					
Benzene		1510	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		37.3 J	50	11	ug/l	SW846 8260C
sec-Butylbenzene		13.3 J	50	4.2	ug/l	SW846 8260C
tert-Butylbenzene		15.2 J	50	3.9	ug/l	SW846 8260C
Ethylbenzene		2840	10	2.5	ug/l	SW846 8260C
Isopropylbenzene		110	50	3.5	ug/l	SW846 8260C
p-Isopropyltoluene		11.7 J	50	3.7	ug/l	SW846 8260C
4-Methyl-2-pentanone (MIBK)		11.1 J	50	9.9	ug/l	SW846 8260C

Summary of Hits

Job Number: MC36465
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		339	50	6.9	ug/l	SW846 8260C
n-Propylbenzene		200	50	4.9	ug/l	SW846 8260C
Toluene		3240	10	2.2	ug/l	SW846 8260C
1,2,3-Trichlorobenzene		12.9 J	50	6.8	ug/l	SW846 8260C
1,2,4-Trichlorobenzene		10.6 J	50	1.9	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1050	50	3.0	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		373	50	1.8	ug/l	SW846 8260C
m,p-Xylene		5190	10	3.8	ug/l	SW846 8260C
o-Xylene		2740	10	3.0	ug/l	SW846 8260C
Xylene (total)		7930	10	3.0	ug/l	SW846 8260C
2,4-Dimethylphenol		32.9	11	0.60	ug/l	SW846 8270D
Phenol		11.9	5.3	0.32	ug/l	SW846 8270D
Acenaphthene		0.15	0.11	0.0080	ug/l	SW846 8270D BY SIM
Fluorene		0.51	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		15.3	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		18.4	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.064	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36465-3	**MW13-ROX-011615**					
Benzene		0.46 J	0.50	0.25	ug/l	SW846 8260C
Ethylbenzene		0.97 J	1.0	0.25	ug/l	SW846 8260C
Methyl Tert Butyl Ether		6.0	1.0	0.22	ug/l	SW846 8260C
Toluene		0.76 J	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.64 J	5.0	0.30	ug/l	SW846 8260C
m,p-Xylene		2.2	1.0	0.38	ug/l	SW846 8260C
o-Xylene		0.72 J	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		3.0	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate		0.34 JB	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.14	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.090 J	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene		0.053 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Chrysene		0.030 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Fluoranthene		0.022 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Fluorene		0.035 J	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.040 J	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.080 J	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.025 J	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.046 J	0.11	0.0090	ug/l	SW846 8270D BY SIM
MC36465-4	**MW14-ROX-011615**					
tert-Butylbenzene		0.53 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		0.36 J	1.0	0.25	ug/l	SW846 8260C
Toluene		0.42 J	1.0	0.22	ug/l	SW846 8260C

Summary of Hits

Job Number: MC36465
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/16/15

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
1,2,4-Trimethylbenzene	0.32 J	5.0	0.30	ug/l	SW846 8260C
m,p-Xylene	0.72 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)	1.0	1.0	0.30	ug/l	SW846 8260C
Acenaphthene	0.27	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene	0.060 J	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene	0.015 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluorene	0.13	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	0.12 J	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	0.026 J	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	0.021 J	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36465-5 P66-ROX-011615					
Benzene	8.3	0.50	0.25	ug/l	SW846 8260C
n-Butylbenzene	16.2	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene	21.0	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene	4.8 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene	1.6	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene	121	5.0	0.35	ug/l	SW846 8260C
Methyl Tert Butyl Ether	17.1	1.0	0.22	ug/l	SW846 8260C
Naphthalene	6.0	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene	136	5.0	0.49	ug/l	SW846 8260C
Toluene	1.8	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	0.73 J	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene	0.29 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene	0.93 J	1.0	0.38	ug/l	SW846 8260C
o-Xylene	1.2	1.0	0.30	ug/l	SW846 8260C
Xylene (total)	2.1	1.0	0.30	ug/l	SW846 8260C
Di-n-butyl phthalate	0.22 JB	5.3	0.18	ug/l	SW846 8270D
Acenaphthene	0.67	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene	0.26	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene	0.065 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene	0.030 J	0.053	0.025	ug/l	SW846 8270D BY SIM
Chrysene	0.029 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Fluoranthene	0.047 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Fluorene	1.4	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	73.9	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	17.8	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	0.72	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene	0.077 J	0.11	0.0090	ug/l	SW846 8270D BY SIM
MC36465-6 P66-ROX-011615-DUP					
Benzene	7.6	0.50	0.25	ug/l	SW846 8260C
n-Butylbenzene	14.7	5.0	1.1	ug/l	SW846 8260C

Summary of Hits

Job Number: MC36465
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
sec-Butylbenzene		19.8	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		4.5 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		1.4	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		116	5.0	0.35	ug/l	SW846 8260C
Methyl Tert Butyl Ether		17.2	1.0	0.22	ug/l	SW846 8260C
Naphthalene		5.3	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		127	5.0	0.49	ug/l	SW846 8260C
Toluene		1.6	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.41 J	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.19 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		1.0	1.0	0.38	ug/l	SW846 8260C
o-Xylene		1.3	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		2.2	1.0	0.30	ug/l	SW846 8260C
Acenaphthene		0.68	0.11	0.0082	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.27	0.11	0.0091	ug/l	SW846 8270D BY SIM
Anthracene		0.31	0.11	0.011	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.43	0.054	0.026	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.30	0.11	0.017	ug/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.32	0.054	0.021	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.15	0.11	0.014	ug/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.23	0.11	0.011	ug/l	SW846 8270D BY SIM
Chrysene		0.32	0.11	0.014	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.062 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Fluoranthene		1.0	0.11	0.0080	ug/l	SW846 8270D BY SIM
Fluorene		1.5	0.11	0.016	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.14	0.11	0.022	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		68.2	2.2	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		16.5	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		1.6	0.054	0.012	ug/l	SW846 8270D BY SIM
Pyrene		0.86	0.11	0.0092	ug/l	SW846 8270D BY SIM

MC36465-7 **TB-ROX-011615-HCL**

No hits reported in this sample.

MC36465-8 **TB-ROX-011615-ST**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90505.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	27.8	0.50	0.25	ug/l	
108-86-1	Bromobenzene	0.45	5.0	0.35	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	18.5	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	9.1	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	1.6	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	5.2	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	0.80	1.0	0.24	ug/l	J
541-73-1	1,3-Dichlorobenzene	0.84	1.0	0.16	ug/l	J
106-46-7	1,4-Dichlorobenzene	0.99	1.0	0.31	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	0.47	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:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	358	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	3.1	5.0	1.7	ug/l	J
591-78-6	2-Hexanone	3.9	5.0	1.6	ug/l	J
98-82-8	Isopropylbenzene	82.3	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	10.9	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	6.1	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	62.6	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	107	5.0	0.49	ug/l	
100-42-5	Styrene	0.52	5.0	0.29	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	12.1	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	5.1	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	4.4	5.0	0.19	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.5	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	89.5	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	102	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	207	1.0	0.38	ug/l	
95-47-6	o-Xylene	20.6	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	228	1.0	0.30	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:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-134%
2037-26-5	Toluene-D8	97%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

(a) 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:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05432.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.34	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	44%		15-110%
4165-62-2	Phenol-d5	33%		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	80%		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	

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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:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93960.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.18	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0088	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	10.8	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	23.6	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.025	0.053	0.011	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	102%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-011615		
Lab Sample ID:	MC36465-1	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61551.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	146%		36-173%
460-00-4	Bromofluorobenzene (S)	181% [a]		36-173%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90506.D	10	01/28/15	GK	n/a	n/a	MSL4005
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	25	ug/l	
107-02-8	Acrolein	ND	250	60	ug/l	
107-13-1	Acrylonitrile	ND	50	21	ug/l	
71-43-2	Benzene	1510	5.0	2.5	ug/l	
108-86-1	Bromobenzene	ND	50	3.5	ug/l	
74-97-5	Bromochloromethane	ND	50	4.2	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.7	ug/l	
75-25-2	Bromoform	ND	10	3.0	ug/l	
74-83-9	Bromomethane	ND	20	7.7	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	25	ug/l	
104-51-8	n-Butylbenzene	37.3	50	11	ug/l	J
135-98-8	sec-Butylbenzene	13.3	50	4.2	ug/l	J
98-06-6	tert-Butylbenzene	15.2	50	3.9	ug/l	J
75-15-0	Carbon disulfide	ND	50	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.3	ug/l	
108-90-7	Chlorobenzene	ND	10	2.5	ug/l	
75-00-3	Chloroethane	ND	20	3.7	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	33	ug/l	
67-66-3	Chloroform	ND	10	3.1	ug/l	
74-87-3	Chloromethane	ND	20	5.9	ug/l	
95-49-8	o-Chlorotoluene	ND	50	3.8	ug/l	
106-43-4	p-Chlorotoluene	ND	50	4.5	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.6	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	2.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	1.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	3.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	7.1	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	2.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	4.4	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	10	4.7	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:	MW22-ROX-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	4.5	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	8.9	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	4.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	4.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	3.8	ug/l	
123-91-1	1,4-Dioxane	ND	250	110	ug/l	
97-63-2	Ethyl methacrylate	ND	50	5.0	ug/l	
100-41-4	Ethylbenzene	2840	10	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	17	ug/l	
591-78-6	2-Hexanone	ND	50	16	ug/l	
98-82-8	Isopropylbenzene	110	50	3.5	ug/l	
99-87-6	p-Isopropyltoluene	11.7	50	3.7	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.2	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	11.1	50	9.9	ug/l	J
74-95-3	Methylene bromide	ND	50	5.2	ug/l	
75-09-2	Methylene chloride	ND	20	3.9	ug/l	
91-20-3	Naphthalene	339	50	6.9	ug/l	
103-65-1	n-Propylbenzene	200	50	4.9	ug/l	
100-42-5	Styrene	ND	50	2.9	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	2.9	ug/l	
108-88-3	Toluene	3240	10	2.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	12.9	50	6.8	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	10.6	50	1.9	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	10	4.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	3.0	ug/l	
79-01-6	Trichloroethene	ND	10	4.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	5.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	8.1	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1050	50	3.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	373	50	1.8	ug/l	
108-05-4	Vinyl Acetate	ND	50	7.1	ug/l	
75-01-4	Vinyl chloride	ND	10	4.5	ug/l	
	m,p-Xylene	5190	10	3.8	ug/l	
95-47-6	o-Xylene	2740	10	3.0	ug/l	
1330-20-7	Xylene (total)	7930	10	3.0	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:	MW22-ROX-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	95%		71-133%

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

(a) 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:	MW22-ROX-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20015.D	1	01/23/15	KD	01/18/15	OP41699	MSW873
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	32.9	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	11.9	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	MW22-ROX-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	80%		15-110%
4165-62-2	Phenol-d5	36%		15-110%
118-79-6	2,4,6-Tribromophenol	93%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	93%		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:	MW22-ROX-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93964.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.15	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	0.51	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	15.3	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	18.4	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.064	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	102%		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-011615		
Lab Sample ID:	MC36465-2	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61552.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	168%		36-173%
460-00-4	Bromofluorobenzene (S)	180% [a]		36-173%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90499.D	1	01/28/15	GK	n/a	n/a	MSL4005
Run #2	L90534.D	1	01/30/15	GK	n/a	n/a	MSL4006

	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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	0.46 [a]	0.50	0.25	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [b]	ND	1.0	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:	MW13-ROX-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.97	1.0	0.25	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.0	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.76	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.64 [a]	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	2.2	1.0	0.38	ug/l	
95-47-6	o-Xylene	0.72	1.0	0.30	ug/l	J
1330-20-7	Xylene (total)	3.0	1.0	0.30	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-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	107%	67-134%
2037-26-5	Toluene-D8	97%	95%	79-121%
460-00-4	4-Bromofluorobenzene	112%	113%	71-133%

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

(a) Result is from Run# 2
(b) 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:	MW13-ROX-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05434.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.34	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	48%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	99%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	86%		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
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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-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93965.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.14	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	0.090	0.11	0.0089	ug/l	J
120-12-7	Anthracene	0.053	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	0.030	0.11	0.014	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.022	0.11	0.0079	ug/l	J
86-73-7	Fluorene	0.035	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.040	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	0.080	2.1	0.012	ug/l	J
85-01-8	Phenanthrene	0.025	0.053	0.011	ug/l	J
129-00-0	Pyrene	0.046	0.11	0.0090	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	106%		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:	MW13-ROX-011615		
Lab Sample ID:	MC36465-3	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61553.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	173%		36-173%
460-00-4	Bromofluorobenzene (S)	204% [a]		36-173%

(a) Outside control limits.Sample non-detect for targets analyte.

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:	MW14-ROX-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	0.53	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	0.47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.36	1.0	0.25	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.42	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.32	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	0.72	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.0	1.0	0.30	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-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	104%		71-133%

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

(a) 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:	MW14-ROX-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05435.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	48%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	82%		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	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93966.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.27	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	0.060	0.11	0.0089	ug/l	J
120-12-7	Anthracene	0.015	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	0.13	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.12	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	0.026	2.1	0.012	ug/l	J
85-01-8	Phenanthrene	0.021	0.053	0.011	ug/l	J
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	101%		30-130%

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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-011615		
Lab Sample ID:	MC36465-4	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61554.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	163%		36-173%
460-00-4	Bromofluorobenzene (S)	156%		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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90500.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	8.3	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	16.2	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	21.0	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	4.8	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	0.47	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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	121	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.1	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	6.0	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	136	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	1.8	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.73	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.29	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	0.93	1.0	0.38	ug/l	J
95-47-6	o-Xylene	1.2	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	2.1	1.0	0.30	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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	101%		79-121%
460-00-4	4-Bromofluorobenzene	92%		71-133%

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

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

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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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05436.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.22	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	48%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	102%		15-110%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	84%		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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93967.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.67	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	0.26	0.11	0.0089	ug/l	
120-12-7	Anthracene	0.065	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	0.030	0.053	0.025	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	0.029	0.11	0.014	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.047	0.11	0.0079	ug/l	J
86-73-7	Fluorene	1.4	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	73.9	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	17.8	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.72	0.053	0.011	ug/l	
129-00-0	Pyrene	0.077	0.11	0.0090	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	103%		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:	P66-ROX-011615		
Lab Sample ID:	MC36465-5	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61555.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	155%		36-173%
460-00-4	Bromofluorobenzene (S)	192% [a]		36-173%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90501.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	7.6	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	14.7	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	19.8	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	4.5	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	0.47	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:	P66-ROX-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	116	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.2	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	5.3	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	127	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	1.6	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.41	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.19	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	1.0	1.0	0.38	ug/l	
95-47-6	o-Xylene	1.3	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	2.2	1.0	0.30	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-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-134%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenzene	93%		71-133%

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

(a) 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:	P66-ROX-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05437.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	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-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	45%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	97%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	85%		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	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93968.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
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	0.0082	ug/l	
208-96-8	Acenaphthylene	0.27	0.11	0.0091	ug/l	
120-12-7	Anthracene	0.31	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	0.43	0.054	0.026	ug/l	
50-32-8	Benzo(a)pyrene	0.30	0.11	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	0.32	0.054	0.021	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.15	0.11	0.014	ug/l	
207-08-9	Benzo(k)fluoranthene	0.23	0.11	0.011	ug/l	
218-01-9	Chrysene	0.32	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.062	0.11	0.016	ug/l	J
206-44-0	Fluoranthene	1.0	0.11	0.0080	ug/l	
86-73-7	Fluorene	1.5	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	68.2	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	16.5	2.2	0.012	ug/l	
85-01-8	Phenanthrene	1.6	0.054	0.012	ug/l	
129-00-0	Pyrene	0.86	0.11	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	106%		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:	P66-ROX-011615-DUP		
Lab Sample ID:	MC36465-6	**Date Sampled:**	01/16/15
Matrix:	AQ - Ground Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61556.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	173%		36-173%
460-00-4	Bromofluorobenzene (S)	194% [a]		36-173%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011615-HCL		
Lab Sample ID:	MC36465-7	**Date Sampled:**	01/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90494.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	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:	TB-ROX-011615-HCL		
Lab Sample ID:	MC36465-7	**Date Sampled:**	01/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011615-HCL		
Lab Sample ID:	MC36465-7	**Date Sampled:**	01/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		67-134%
2037-26-5	Toluene-D8	97%		79-121%
460-00-4	4-Bromofluorobenzene	100%		71-133%

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

(a) 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-011615-ST		
Lab Sample ID:	MC36465-8	**Date Sampled:**	01/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/17/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61557.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	163%		36-173%
460-00-4	Bromofluorobenzene (S)	152%		36-173%

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

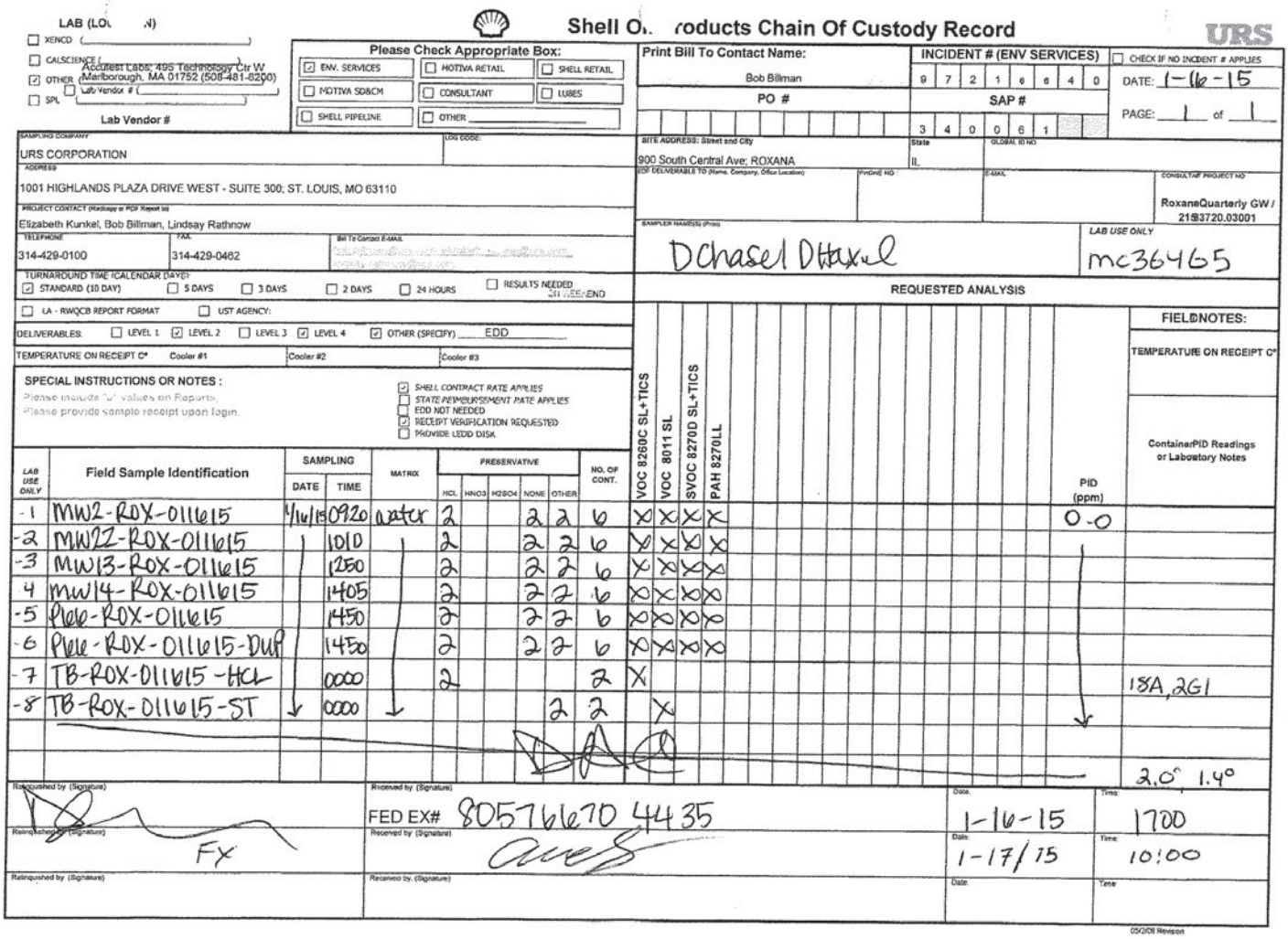
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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 (508-481-8200)
SPL Lab Vendor # (_____)
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): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
CHECK IF NO INCIDENT # APPLIES
DATE: 1-16-15
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): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL:

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.: RoxaneQuarterly GW / 215373720.03001
SAMPLER NAME(S) (Print): DChasel DHaxel
LAB USE ONLY: mc36465

TURNAROUND TIME (CALENDAR DAYS):
STANDARD (10 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED SAT / SUN
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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container/PID Readings or Laboratory Notes
-1	MW2-ROX-011615	1/16/15	0920	water	2			2	2	6	X	X	X	X	0.0	
-2	MW22-ROX-011615		1010		2			2	2	6	X	X	X	X		
-3	MW13-ROX-011615		1250		2			2	2	6	X	X	X	X		
4	MW14-ROX-011615		1405		2			2	2	6	X	X	X	X		
-5	Pkg-ROX-011615		1450		2			2	2	6	X	X	X	X		
-6	Pkg-ROX-011615-DUP		1450		2			2	2	6	X	X	X	X		
-7	TB-ROX-011615-HCL		0000		2					2	X					18A, 2G1
-8	TB-ROX-011615-ST	↓	0000	↓					2	2		X			↓	
																2.0° 1.4°

	Received by (Signature)	Date	Time
Relinquished by (Signature): FX	FED EX# 805766704435	1-16-15	1700
Relinquished by (Signature)	Received by (Signature)	1-17-15	10:00
Relinquished by (Signature)	Received by (Signature)		

05/2/08 Revision

5.1 5

MC36465: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36465 **Client:** URS **Project:** 900 SOUTH CENTRAL AVE

Date / Time Received: 1/17/2015 10 00 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (1 4/1 4) #2 (2/2)

Cooler Security	Y or N		Y or N
1 Custody Seals Present	☑ ☐	3 COC Present	☑ ☐
2 Custody Seals ntact	☑ ☐	4 Smpl Dates/ ime OK	☑ ☐

Cooler Temperature	Y or N
1 emp criteria achieved	☑ ☐
2 hermometer D	G1
3 Cooler media	ce (Bag)
4 No Coolers	2

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

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 H	☑ ☐
2 All containers accounted or	☑ ☐
3 Condition o sample	ntact

Sample Integrity - Instructions	Y or N	N/A
1 Analysis requested is clear	☑ ☐	
2 Bottles received or unspeci ied tests	☐ ☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36465

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36465-1 Collected: 16-JAN-15 09:20 By: DCDH Received: 17-JAN-15 By: MW2-ROX-011615						
MC36465-1	SW846 8011	21-JAN-15 13:10	NK	20-JAN-15	AZ	V8011SL
MC36465-1	SW846 8270D	22-JAN-15 10:53	MR	18-JAN-15	FC	AB8270SL+
MC36465-1	SW846 8270D BY SIM	22-JAN-15 11:08	MR	18-JAN-15	FC	B8270SIMSL
MC36465-1	SW846 8260C	28-JAN-15 17:46	GK			V8260SL+
MC36465-2 Collected: 16-JAN-15 10:10 By: DCDH Received: 17-JAN-15 By: MW22-ROX-011615						
MC36465-2	SW846 8011	21-JAN-15 13:32	NK	20-JAN-15	AZ	V8011SL
MC36465-2	SW846 8270D BY SIM	22-JAN-15 12:45	MR	18-JAN-15	FC	B8270SIMSL
MC36465-2	SW846 8270D	23-JAN-15 10:20	KD	18-JAN-15	FC	AB8270SL+
MC36465-2	SW846 8260C	28-JAN-15 18:16	GK			V8260SL+
MC36465-3 Collected: 16-JAN-15 12:50 By: DCDH Received: 17-JAN-15 By: MW13-ROX-011615						
MC36465-3	SW846 8011	21-JAN-15 13:54	NK	20-JAN-15	AZ	V8011SL
MC36465-3	SW846 8270D	22-JAN-15 11:34	MR	18-JAN-15	FC	AB8270SL+
MC36465-3	SW846 8270D BY SIM	22-JAN-15 13:08	MR	18-JAN-15	FC	B8270SIMSL
MC36465-3	SW846 8260C	28-JAN-15 14:47	GK			V8260SL+
MC36465-3	SW846 8260C	30-JAN-15 12:38	GK			V8260SL+
MC36465-4 Collected: 16-JAN-15 14:05 By: DCDH Received: 17-JAN-15 By: MW14-ROX-011615						
MC36465-4	SW846 8011	21-JAN-15 14:16	NK	20-JAN-15	AZ	V8011SL
MC36465-4	SW846 8270D	22-JAN-15 11:54	MR	18-JAN-15	FC	AB8270SL+
MC36465-4	SW846 8270D BY SIM	22-JAN-15 13:32	MR	18-JAN-15	FC	B8270SIMSL
MC36465-4	SW846 8260C	28-JAN-15 13:48	GK			V8260SL+
MC36465-5 Collected: 16-JAN-15 14:50 By: DCDH Received: 17-JAN-15 By: P66-ROX-011615						
MC36465-5	SW846 8011	21-JAN-15 14:38	NK	20-JAN-15	AZ	V8011SL
MC36465-5	SW846 8270D	22-JAN-15 12:15	MR	18-JAN-15	FC	AB8270SL+
MC36465-5	SW846 8270D BY SIM	22-JAN-15 13:58	MR	18-JAN-15	FC	B8270SIMSL
MC36465-5	SW846 8260C	28-JAN-15 15:17	GK			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36465

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36465-6 Collected: 16-JAN-15 14:50 By: DCDH Received: 17-JAN-15 By: P66-ROX-011615-DUP						
MC36465-6	SW846 8011	21-JAN-15 15:00	NK	20-JAN-15	AZ	V8011SL
MC36465-6	SW846 8270D	22-JAN-15 12:35	MR	18-JAN-15	FC	AB8270SL+
MC36465-6	SW846 8270D BY SIM	22-JAN-15 14:22	MR	18-JAN-15	FC	B8270SIMSL
MC36465-6	SW846 8260C	28-JAN-15 15:47	GK			V8260SL+
MC36465-7 Collected: 16-JAN-15 00:00 By: DCDH Received: 17-JAN-15 By: TB-ROX-011615-HCL						
MC36465-7	SW846 8260C	28-JAN-15 12:16	GK			V8260SL+
MC36465-8 Collected: 16-JAN-15 00:00 By: DCDH Received: 17-JAN-15 By: TB-ROX-011615-ST						
MC36465-8	SW846 8011	21-JAN-15 15:21	NK	20-JAN-15	AZ	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/17/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36465-1.2	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-1.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-1.5	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-1.5	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36465-1.5	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-1.5	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36465-2.2	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-2.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-2.6	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-2.6	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36465-2.6	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-2.6	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-2.6	Scott Parsick		04/15/15 12:23	Disposed
MC36465-3.1	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-3.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-3.5	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-3.5	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36465-3.5	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-3.5	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-3.5	Scott Parsick		04/15/15 12:23	Disposed
MC36465-3.6	VOC Ref #2	Gary Krasinski	01/30/15 11:01	Retrieve from Storage
MC36465-3.6	Gary Krasinski	GCMSL	01/30/15 11:01	Load on Instrument
MC36465-3.6	GCMSL	Gary Krasinski	02/03/15 08:37	Unload from Instrument
MC36465-3.6	Gary Krasinski	VOC Ref #2	02/03/15 08:37	Return to Storage
MC36465-3.6	Scott Parsick		04/15/15 12:23	Disposed
MC36465-4.1	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-4.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-4.5	VOC Ref #2	Gary Krasinski	01/28/15 13:12	Retrieve from Storage
MC36465-4.5	Gary Krasinski	GCMSL	01/28/15 13:12	Load on Instrument
MC36465-4.5	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-4.5	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-4.5	Scott Parsick		04/15/15 12:23	Disposed
MC36465-4.6	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-4.6	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/17/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36465-4.6	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-4.6	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-4.6	Scott Parsick		04/15/15 12:23	Disposed
MC36465-5.1	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-5.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-5.5	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-5.5	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36465-5.5	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-5.5	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-5.5	Scott Parsick		04/15/15 12:23	Disposed
MC36465-6.1	Walk In Ref #22	Marc Tahtamoni	01/18/15 17:30	Retrieve from Storage
MC36465-6.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36465-6.6	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36465-6.6	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36465-6.6	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-6.6	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-6.6	Scott Parsick		04/15/15 12:23	Disposed
MC36465-7.1	VOC Ref #2	Gary Krasinski	01/28/15 11:13	Retrieve from Storage
MC36465-7.1	Gary Krasinski	GCMSL	01/28/15 11:13	Load on Instrument
MC36465-7.1	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36465-7.1	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36465-7.1	Scott Parsick		04/15/15 12:23	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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	67-134%
2037-26-5	Toluene-D8	97%	79-121%
460-00-4	4-Bromofluorobenzene	98%	71-133%

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

Method Blank Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4006-MB	L90531.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36465-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	67-134%
2037-26-5	Toluene-D8	98%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	40.9	82	10-147
107-02-8	Acrolein	250	170	68	10-170
107-13-1	Acrylonitrile	50	43.1	86	51-154
71-43-2	Benzene	50	44.7	89	74-127
108-86-1	Bromobenzene	50	49.7	99	77-124
74-97-5	Bromochloromethane	50	48.5	97	76-128
75-27-4	Bromodichloromethane	50	55.1	110	68-156
75-25-2	Bromoform	50	55.1	110	70-134
74-83-9	Bromomethane	50	53.5	107	14-180
78-93-3	2-Butanone (MEK)	50	59.8	120	23-148
104-51-8	n-Butylbenzene	50	52.4	105	75-140
135-98-8	sec-Butylbenzene	50	49.2	98	74-139
98-06-6	tert-Butylbenzene	50	51.9	104	71-141
75-15-0	Carbon disulfide	50	37.0	74	45-156
56-23-5	Carbon tetrachloride	50	59.4	119	67-152
108-90-7	Chlorobenzene	50	48.1	96	76-121
75-00-3	Chloroethane	50	49.6	99	54-177
110-75-8	2-Chloroethyl vinyl ether	50	76.3	153	36-178
67-66-3	Chloroform	50	51.1	102	68-139
74-87-3	Chloromethane	50	50.7	101	33-171
95-49-8	o-Chlorotoluene	50	47.1	94	76-131
106-43-4	p-Chlorotoluene	50	48.2	96	76-130
124-48-1	Dibromochloromethane	50	53.9	108	82-130
95-50-1	1,2-Dichlorobenzene	50	48.1	96	81-127
541-73-1	1,3-Dichlorobenzene	50	46.6	93	80-124
106-46-7	1,4-Dichlorobenzene	50	47.0	94	78-124
75-71-8	Dichlorodifluoromethane	50	54.3	109	10-185
75-34-3	1,1-Dichloroethane	50	43.7	87	69-140
107-06-2	1,2-Dichloroethane	50	60.5	121	64-149
75-35-4	1,1-Dichloroethene	50	39.8	80	58-142
156-59-2	cis-1,2-Dichloroethene	50	46.2	92	68-129
156-60-5	trans-1,2-Dichloroethene	50	42.8	86	61-133
78-87-5	1,2-Dichloropropane	50	46.6	93	74-135
142-28-9	1,3-Dichloropropane	50	54.0	108	76-121
594-20-7	2,2-Dichloropropane	50	59.7	119	62-157
563-58-6	1,1-Dichloropropene	50	48.0	96	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	61.2	122	75-138
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	70-150
123-91-1	1,4-Dioxane	250	196	78	52-165
97-63-2	Ethyl methacrylate	50	52.4	105	62-138
100-41-4	Ethylbenzene	50	51.5	103	75-129
87-68-3	Hexachlorobutadiene	50	60.1	120	59-150
591-78-6	2-Hexanone	50	63.5	127	28-137
98-82-8	Isopropylbenzene	50	48.1	96	76-138
99-87-6	p-Isopropyltoluene	50	52.7	105	77-137
1634-04-4	Methyl Tert Butyl Ether	50	60.7	121	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.3	113	48-153
74-95-3	Methylene bromide	50	50.2	100	74-134
75-09-2	Methylene chloride	50	44.2	88	62-134
91-20-3	Naphthalene	50	46.0	92	32-196
103-65-1	n-Propylbenzene	50	46.7	93	74-138
100-42-5	Styrene	50	54.1	108	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	56.4	113	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	44.5	89	64-132
127-18-4	Tetrachloroethene	50	50.9	102	68-133
108-88-3	Toluene	50	50.0	100	75-134
87-61-6	1,2,3-Trichlorobenzene	50	55.6	111	51-169
120-82-1	1,2,4-Trichlorobenzene	50	55.0	110	62-146
71-55-6	1,1,1-Trichloroethane	50	56.0	112	66-152
79-00-5	1,1,2-Trichloroethane	50	49.5	99	70-138
79-01-6	Trichloroethene	50	49.6	99	70-131
75-69-4	Trichlorofluoromethane	50	60.7	121	43-168
96-18-4	1,2,3-Trichloropropane	50	47.8	96	61-134
95-63-6	1,2,4-Trimethylbenzene	50	48.7	97	76-133
108-67-8	1,3,5-Trimethylbenzene	50	49.5	99	72-131
108-05-4	Vinyl Acetate	50	100	200	10-200
75-01-4	Vinyl chloride	50	50.6	101	32-182
	m,p-Xylene	100	96.4	96	74-129
95-47-6	o-Xylene	50	48.8	98	77-127
1330-20-7	Xylene (total)	150	145	97	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	93%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4006-BS	L90529.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36465-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	42.3	85	74-127
95-63-6	1,2,4-Trimethylbenzene	50	47.8	96	76-133

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	94%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	MC36465-4 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	119	48	250	85.3	34	33* [a]	10-135/30
107-02-8	Acrolein	ND		1250	879	70	1250	870	70	1	10-165/30
107-13-1	Acrylonitrile	ND		250	224	90	250	206	82	8	43-165/30
71-43-2	Benzene	ND		250	213	85	250	242	97	13	69-136/30
108-86-1	Bromobenzene	ND		250	246	98	250	280	112	13	74-127/30
74-97-5	Bromochloromethane	ND		250	227	91	250	254	102	11	73-134/30
75-27-4	Bromodichloromethane	ND		250	232	93	250	263	105	13	63-163/30
75-25-2	Bromoform	ND		250	251	100	250	278	111	10	61-140/30
74-83-9	Bromomethane	ND		250	241	96	250	309	124	25	10-175/30
78-93-3	2-Butanone (MEK)	ND		250	178	71	250	181	72	2	19-130/30
104-51-8	n-Butylbenzene	ND		250	237	95	250	274	110	14	65-147/30
135-98-8	sec-Butylbenzene	ND		250	228	91	250	261	104	13	72-143/30
98-06-6	tert-Butylbenzene	0.53	J	250	228	91	250	265	106	15	66-146/30
75-15-0	Carbon disulfide	ND		250	203	81	250	244	98	18	33-170/30
56-23-5	Carbon tetrachloride	ND		250	233	93	250	275	110	17	61-163/30
108-90-7	Chlorobenzene	ND		250	231	92	250	260	104	12	73-127/30
75-00-3	Chloroethane	ND		250	275	110	250	302	121	9	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	273	109	250	254	102	7	10-200/30
67-66-3	Chloroform	ND		250	214	86	250	244	98	13	65-146/30
74-87-3	Chloromethane	ND		250	186	74	250	209	84	12	23-176/30
95-49-8	o-Chlorotoluene	ND		250	221	88	250	254	102	14	67-142/30
106-43-4	p-Chlorotoluene	ND		250	225	90	250	257	103	13	70-137/30
124-48-1	Dibromochloromethane	ND		250	254	102	250	282	113	10	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		250	221	88	250	257	103	15	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		250	219	88	250	253	101	14	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		250	214	86	250	255	102	17	75-126/30
75-71-8	Dichlorodifluoromethane	ND		250	205	82	250	240	96	16	10-184/30
75-34-3	1,1-Dichloroethane	ND		250	207	83	250	234	94	12	66-148/30
107-06-2	1,2-Dichloroethane	ND		250	241	96	250	272	109	12	59-157/30
75-35-4	1,1-Dichloroethene	ND		250	212	85	250	224	90	6	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		250	225	90	250	252	101	11	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		250	215	86	250	241	96	11	57-142/30
78-87-5	1,2-Dichloropropane	ND		250	218	87	250	252	101	14	70-142/30
142-28-9	1,3-Dichloropropane	ND		250	265	106	250	285	114	7	73-126/30
594-20-7	2,2-Dichloropropane	ND		250	251	100	250	293	117	15	45-168/30
563-58-6	1,1-Dichloropropene	ND		250	216	86	250	248	99	14	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Compound	MC36465-4 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	281	112	250	318	127	12	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	226	90	250	246	98	8	64-153/30
123-91-1	1,4-Dioxane	ND		1250	694	56	1250	437	35* [b]	45* [a]	38-165/30
97-63-2	Ethyl methacrylate	ND		250	238	95	250	258	103	8	54-149/30
100-41-4	Ethylbenzene	0.36	J	250	243	97	250	268	107	10	67-141/30
87-68-3	Hexachlorobutadiene	ND		250	259	104	250	307	123	17	52-152/30
591-78-6	2-Hexanone	ND		250	177	71	250	185	74	4	25-118/30
98-82-8	Isopropylbenzene	ND		250	231	92	250	262	105	13	71-144/30
99-87-6	p-Isopropyltoluene	ND		250	241	96	250	275	110	13	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	287	115	250	291	116	1	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	221	88	250	230	92	4	46-158/30
74-95-3	Methylene bromide	ND		250	228	91	250	246	98	8	70-141/30
75-09-2	Methylene chloride	ND		250	231	92	250	243	97	5	58-143/30
91-20-3	Naphthalene	ND		250	221	88	250	241	96	9	19-200/30
103-65-1	n-Propylbenzene	ND		250	226	90	250	254	102	12	67-145/30
100-42-5	Styrene	ND		250	250	100	250	279	112	11	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	261	104	250	294	118	12	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	225	90	250	241	96	7	61-137/30
127-18-4	Tetrachloroethene	ND		250	239	96	250	268	107	11	64-139/30
108-88-3	Toluene	0.42	J	250	221	88	250	254	101	14	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	254	102	250	294	118	15	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	252	101	250	305	122	19	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		250	225	90	250	258	103	14	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		250	232	93	250	259	104	11	65-145/30
79-01-6	Trichloroethene	ND		250	218	87	250	252	101	14	64-139/30
75-69-4	Trichlorofluoromethane	ND		250	243	97	250	277	111	13	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		250	241	96	250	247	99	2	53-137/30
95-63-6	1,2,4-Trimethylbenzene	0.32	J	250	222	89	250	261	104	16	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	228	91	250	263	105	14	68-135/30
108-05-4	Vinyl Acetate	ND		250	460	184	250	468	187	2	10-200/30
75-01-4	Vinyl chloride	ND		250	237	95	250	272	109	14	25-187/30
	m,p-Xylene	0.72	J	500	453	90	500	501	100	10	67-138/30
95-47-6	o-Xylene	ND		250	219	88	250	245	98	11	72-135/30
1330-20-7	Xylene (total)	1.0		750	671	89	750	747	99	11	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-7

CAS No.	Surrogate Recoveries	MS	MSD	MC36465-4	Limits
1868-53-7	Dibromofluoromethane	96%	95%	108%	67-134%
2037-26-5	Toluene-D8	98%	98%	99%	79-121%
460-00-4	4-Bromofluorobenzene	94%	94%	104%	71-133%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36545-19MS	L90542.D	5	01/30/15	GK	n/a	n/a	MSL4006
MC36545-19MSD	L90543.D	5	01/30/15	GK	n/a	n/a	MSL4006
MC36545-19	L90537.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36465-3

CAS No.	Compound	MC36545-19 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	206	82	250	203	81	1	69-136/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	227	91	250	234	94	3	66-142/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36545-19	Limits
1868-53-7	Dibromofluoromethane	108%	107%	107%	67-134%
2037-26-5	Toluene-D8	97%	99%	97%	79-121%
460-00-4	4-Bromofluorobenzene	89%	91%	99%	71-133%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4005-CC4003	**Injection Date:**	01/28/15
Lab File ID:	L90488.D	**Injection Time:**	09:17
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	229484	8.10	331375	8.91	170093	12.11	186008	14.65	43556	5.85
Upper Limit [a]	458968	8.60	662750	9.41	340186	12.61	372016	15.15	87112	6.35
Lower Limit [b]	114742	7.60	165688	8.41	85047	11.61	93004	14.15	21778	5.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4005-BS	228704	8.10	324882	8.91	166877	12.11	181399	14.65	44019	5.85
MSL4005-MB	230056	8.10	334209	8.92	157361	12.11	153764	14.65	50776	5.91
ZZZZZZ	224671	8.10	317589	8.92	152873	12.11	142347	14.65	40726	5.92
MC36465-7	219708	8.11	319688	8.92	152346	12.11	144869	14.65	43821	5.92
ZZZZZZ	216392	8.10	308902	8.92	149036	12.11	138684	14.65	41732	5.92
ZZZZZZ	180908	8.10	265009	8.92	127588	12.11	127279	14.65	26495	5.90
MC36465-4	211714	8.10	301463	8.92	145075	12.11	136017	14.65	39104	5.93
ZZZZZZ	177264	8.10	279856	8.91	143864	12.11	152989	14.65	27924	5.91
MC36465-3	244632	8.10	347488	8.92	164247	12.11	161856	14.65	62232	5.90
MC36465-5	188861	8.10	271674	8.92	136539	12.11	149261	14.65	33009	5.89
MC36465-6	275838	8.10	383228	8.92	191389	12.11	198428	14.65	55705	5.90
ZZZZZZ	291880	8.10	414056	8.91	200753	12.11	208137	14.65	65323	5.88
MC36465-4MS	365111	8.10	520699	8.91	243602	12.10	242728	14.65	72809	5.85
MC36465-4MSD	301924	8.10	421436	8.91	202805	12.11	199092	14.65	45345	5.86
MC36465-1	316399	8.10	451599	8.91	219622	12.11	221557	14.65	68115	5.89
MC36465-2	355300	8.10	506433	8.91	238039	12.11	238529	14.65	45953	5.89
ZZZZZZ	355121	8.10	497450	8.91	228146	12.11	234750	14.65	85195	5.89
ZZZZZZ	278446	8.10	398052	8.91	184926	12.11	178777	14.65	32100	5.90
ZZZZZZ	280159	8.10	396684	8.91	186301	12.11	188600	14.65	69222	5.89
ZZZZZZ	236163	8.10	337631	8.92	156199	12.11	147220	14.65	27751	5.93
ZZZZZZ	221547	8.10	316509	8.92	148067	12.11	145595	14.65	48505	5.91

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4006-CC4003	**Injection Date:**	01/30/15
Lab File ID:	L90529.D	**Injection Time:**	10:09
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	216782	8.11	308834	8.92	163067	12.11	171305	14.65	30042	5.88
Upper Limit [a]	433564	8.61	617668	9.42	326134	12.61	342610	15.15	60084	6.38
Lower Limit [b]	108391	7.61	154417	8.42	81534	11.61	85653	14.15	15021	5.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4006-BS	216782	8.11	308834	8.92	163067	12.11	171305	14.65	30042	5.88
MSL4006-MB	210340	8.11	293712	8.92	138824	12.11	136906	14.65	42786	5.92
ZZZZZZ	205550	8.11	284372	8.92	139865	12.11	134678	14.65	41463	5.89
ZZZZZZ	189825	8.10	271725	8.92	128114	12.11	122638	14.65	35757	5.92
MC36465-3	200373	8.11	284864	8.92	137929	12.11	135655	14.65	45200	5.91
ZZZZZZ	193237	8.11	267302	8.92	132620	12.11	127007	14.65	42504	5.92
ZZZZZZ	186297	8.11	263141	8.92	128314	12.11	120448	14.65	35547	5.92
MC36545-19	182987	8.11	252771	8.92	124945	12.11	117351	14.65	33264	5.92
ZZZZZZ	178376	8.11	249461	8.92	123659	12.11	115533	14.65	33693	5.92
ZZZZZZ	174196	8.11	247410	8.92	120601	12.11	114707	14.65	35294	5.91
ZZZZZZ	171247	8.11	241546	8.92	116423	12.11	109110	14.65	35967	5.91
ZZZZZZ	172382	8.11	240054	8.92	116090	12.11	116466	14.65	34737	5.92
MC36545-19MS	164895	8.10	232219	8.91	124230	12.10	140981	14.65	33408	5.84
MC36545-19MSD	179034	8.11	251277	8.92	131241	12.10	148289	14.65	38209	5.86
ZZZZZZ	180510	8.11	278818	8.92	139685	12.11	156700	14.65	37842	5.89
ZZZZZZ	177928	8.10	250935	8.92	123008	12.11	124971	14.65	37507	5.90
ZZZZZZ	180106	8.11	253318	8.92	125937	12.11	130311	14.65	34251	5.91
ZZZZZZ	183648	8.10	265983	8.92	134394	12.11	156001	14.65	43921	5.88
ZZZZZZ	193946	8.11	279267	8.92	137699	12.11	160385	14.65	53852	5.88
ZZZZZZ	284508	8.11	403758	8.92	194985	12.11	194659	14.65	38670	5.94
ZZZZZZ	212720	8.10	310123	8.92	148930	12.11	164681	14.65	50308	5.90

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36465-1	L90505.D	93	97	96
MC36465-2	L90506.D	98	99	95
MC36465-3	L90499.D	103	97	112
MC36465-3	L90534.D	107	95	113
MC36465-4	L90497.D	108	99	104
MC36465-5	L90500.D	104	101	92
MC36465-6	L90501.D	102	100	93
MC36465-7	L90494.D	106	97	100
MC36465-4MS	L90503.D	96	98	94
MC36465-4MSD	L90504.D	95	98	94
MC36545-19MS	L90542.D	108	97	89
MC36545-19MSD	L90543.D	107	99	91
MSL4005-BS	L90489.D	103	100	93
MSL4005-MB	L90492.D	105	97	98
MSL4006-BS	L90529.D	107	100	94
MSL4006-MB	L90531.D	108	98	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-134%
S2 = Toluene-D8	79-121%
S3 = 4-Bromofluorobenzene	71-133%

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-MB	X05426.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.54	2.0	0.33	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-MB	X05426.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	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	77%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	92%	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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41700-MB	I93955.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	104%	30-130%

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-BS	X05427.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	16.8	34	30-130
95-57-8	2-Chlorophenol	50	43.1	86	30-130
59-50-7	4-Chloro-3-methyl phenol	50	45.0	90	30-130
120-83-2	2,4-Dichlorophenol	50	46.9	94	30-130
105-67-9	2,4-Dimethylphenol	50	42.2	84	30-130
51-28-5	2,4-Dinitrophenol	50	43.5	87	30-130
534-52-1	4,6-Dinitro-o-cresol	50	54.6	109	30-130
95-48-7	2-Methylphenol	50	38.1	76	30-130
	3&4-Methylphenol	100	72.2	72	30-130
88-75-5	2-Nitrophenol	50	45.6	91	30-130
100-02-7	4-Nitrophenol	50	19.4	39	30-130
87-86-5	Pentachlorophenol	50	51.5	103	30-130
108-95-2	Phenol	50	18.9	38	30-130
95-95-4	2,4,5-Trichlorophenol	50	47.7	95	30-130
88-06-2	2,4,6-Trichlorophenol	50	49.8	100	30-130
62-53-3	Aniline	50	37.2	74	40-140
101-55-3	4-Bromophenyl phenyl ether	50	48.9	98	40-140
85-68-7	Butyl benzyl phthalate	50	49.0	98	40-140
100-51-6	Benzyl Alcohol	50	37.6	75	40-140
91-58-7	2-Chloronaphthalene	50	45.8	92	40-140
106-47-8	4-Chloroaniline	50	44.0	88	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	44.8	90	40-140
111-44-4	bis(2-Chloroethyl)ether	50	45.0	90	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	53.0	106	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	46.9	94	40-140
122-66-7	1,2-Diphenylhydrazine	50	45.2	90	40-140
121-14-2	2,4-Dinitrotoluene	50	46.4	93	40-140
606-20-2	2,6-Dinitrotoluene	50	46.0	92	40-140
91-94-1	3,3'-Dichlorobenzidine	50	45.7	91	40-140
132-64-9	Dibenzofuran	50	46.7	93	40-140
84-74-2	Di-n-butyl phthalate	50	46.6	93	40-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	40-140
84-66-2	Diethyl phthalate	50	46.2	92	40-140
131-11-3	Dimethyl phthalate	50	44.9	90	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.0	102	40-140
118-74-1	Hexachlorobenzene	50	46.7	93	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-BS	X05427.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	40-140
67-72-1	Hexachloroethane	50	43.4	87	40-140
78-59-1	Isophorone	50	39.3	79	40-140
88-74-4	2-Nitroaniline	50	46.8	94	40-140
99-09-2	3-Nitroaniline	50	47.2	94	40-140
100-01-6	4-Nitroaniline	50	46.7	93	40-140
98-95-3	Nitrobenzene	50	40.8	82	40-140
62-75-9	n-Nitrosodimethylamine	50	32.8	66	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	47.4	95	40-140
86-30-6	N-Nitrosodiphenylamine	50	45.1	90	40-140
110-86-1	Pyridine	50	26.5	53	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	85%	15-110%
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	97%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41700-BS	I93956.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	41.3	83	45-120
208-96-8	Acenaphthylene	50	43.4	87	31-120
120-12-7	Anthracene	50	42.0	84	51-120
56-55-3	Benzo(a)anthracene	50	49.8	100	46-139
50-32-8	Benzo(a)pyrene	50	49.9	100	39-125
205-99-2	Benzo(b)fluoranthene	50	45.8	92	41-137
191-24-2	Benzo(g,h,i)perylene	50	48.7	97	47-132
207-08-9	Benzo(k)fluoranthene	50	46.4	93	46-131
218-01-9	Chrysene	50	45.5	91	43-129
53-70-3	Dibenzo(a,h)anthracene	50	47.5	95	42-138
206-44-0	Fluoranthene	50	46.5	93	47-134
86-73-7	Fluorene	50	41.7	83	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.6	97	41-137
90-12-0	1-Methylnaphthalene	50	38.9	78	39-120
91-57-6	2-Methylnaphthalene	50	40.0	80	22-126
85-01-8	Phenanthrene	50	40.6	81	51-120
129-00-0	Pyrene	50	47.4	95	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	102%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-MS	X05428.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
OP41699-MSD	X05429.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
MC36400-7	X05430.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	MC36400-7 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		50	18.9	38	50	16.4	33	14	30-130/20
95-57-8	2-Chlorophenol	ND		50	44.2	88	50	41.9	84	5	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	46.8	94	50	43.9	88	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	49.2	98	50	44.5	89	10	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	44.0	88	50	40.6	81	8	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	46.9	94	50	42.9	86	9	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	53.4	107	50	52.6	105	2	30-130/20
95-48-7	2-Methylphenol	ND		50	39.1	78	50	37.5	75	4	30-130/20
	3&4-Methylphenol	ND		100	73.3	73	100	70.2	70	4	30-130/20
88-75-5	2-Nitrophenol	ND		50	49.6	99	50	44.6	89	11	30-130/20
100-02-7	4-Nitrophenol	ND		50	21.0	42	50	19.1	38	9	30-130/20
87-86-5	Pentachlorophenol	ND		50	52.1	104	50	47.6	95	9	30-130/20
108-95-2	Phenol	ND		50	18.8	38	50	18.2	36	3	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	56.1	112	50	48.2	96	15	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	55.8	112	50	48.3	97	14	30-130/20
62-53-3	Aniline	ND		50	36.6	73	50	36.0	72	2	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	49.8	100	50	44.6	89	11	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	47.5	95	50	45.6	91	4	40-140/20
100-51-6	Benzyl Alcohol	ND		50	39.0	78	50	36.7	73	6	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	52.9	106	50	46.1	92	14	40-140/20
106-47-8	4-Chloroaniline	ND		50	44.0	88	50	41.9	84	5	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	46.6	93	50	42.7	85	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	43.7	87	50	41.8	84	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	51.7	103	50	49.0	98	5	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	50.0	100	50	44.9	90	11	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	46.4	93	50	43.3	87	7	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	47.9	96	50	43.9	88	9	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	47.9	96	50	43.5	87	10	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	45.0	90	50	41.5	83	8	40-140/20
132-64-9	Dibenzofuran	ND		50	49.0	98	50	45.0	90	9	40-140/20
84-74-2	Di-n-butyl phthalate	0.29	JB	50	48.3	96	50	45.6	91	6	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.5	109	50	46.1	92	17	40-140/20
84-66-2	Diethyl phthalate	ND		50	48.7	97	50	43.8	88	11	40-140/20
131-11-3	Dimethyl phthalate	ND		50	47.7	95	50	43.5	87	9	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	50.2	100	50	46.8	94	7	40-140/20
118-74-1	Hexachlorobenzene	ND		50	47.1	94	50	44.1	88	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41699-MS	X05428.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
OP41699-MSD	X05429.D	1	01/22/15	MR	01/18/15	OP41699	MSX177
MC36400-7	X05430.D	1	01/22/15	MR	01/18/15	OP41699	MSX177

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	MC36400-7 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	28.3	57	50	23.3	47	19	40-140/20
67-72-1	Hexachloroethane	ND		50	44.1	88	50	41.2	82	7	40-140/20
78-59-1	Isophorone	ND		50	41.1	82	50	38.2	76	7	40-140/20
88-74-4	2-Nitroaniline	ND		50	51.0	102	50	46.2	92	10	40-140/20
99-09-2	3-Nitroaniline	ND		50	47.6	95	50	45.1	90	5	40-140/20
100-01-6	4-Nitroaniline	ND		50	48.8	98	50	44.6	89	9	40-140/20
98-95-3	Nitrobenzene	ND		50	43.2	86	50	40.0	80	8	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	32.6	65	50	31.4	63	4	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.0	94	50	44.4	89	6	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	44.8	90	50	41.7	83	7	40-140/20
110-86-1	Pyridine	ND		50	26.4	53	50	26.3	53	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-7	Limits
367-12-4	2-Fluorophenol	51%	48%	49%	15-110%
4165-62-2	Phenol-d5	35%	33%	34%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	82%	83%	15-110%
4165-60-0	Nitrobenzene-d5	87%	81%	83%	30-130%
321-60-8	2-Fluorobiphenyl	89%	82%	84%	30-130%
1718-51-0	Terphenyl-d14	101%	94%	99%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41700-MS	I93957.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
OP41700-MSD	I93958.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505
MC36400-8	I93959.D	1	01/22/15	MR	01/18/15	OP41700	MSI3505

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6

CAS No.	Compound	MC36400-8 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	43.1	86	50	39.7	79	8	41-120/20
208-96-8	Acenaphthylene	ND		50	45.0	90	50	41.5	83	8	30-120/20
120-12-7	Anthracene	ND		50	42.6	85	50	39.6	79	7	47-120/20
56-55-3	Benzo(a)anthracene	ND		50	49.4	99	50	45.9	92	7	36-139/20
50-32-8	Benzo(a)pyrene	ND		50	49.8	100	50	46.2	92	7	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		50	46.7	93	50	43.3	87	8	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		50	48.7	97	50	44.9	90	8	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		50	45.5	91	50	41.9	84	8	34-133/20
218-01-9	Chrysene	ND		50	45.3	91	50	42.4	85	7	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	47.5	95	50	43.8	88	8	29-140/20
206-44-0	Fluoranthene	ND		50	46.6	93	50	43.2	86	8	42-132/20
86-73-7	Fluorene	ND		50	43.1	86	50	39.6	79	8	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	48.7	97	50	45.0	90	8	28-139/20
90-12-0	1-Methylnaphthalene	ND		50	41.3	83	50	37.5	75	10	33-120/20
91-57-6	2-Methylnaphthalene	ND		50	42.2	84	50	38.8	78	8	20-125/20
85-01-8	Phenanthrene	ND		50	41.3	83	50	38.0	76	8	47-120/20
129-00-0	Pyrene	ND		50	47.6	95	50	44.3	89	7	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-8	Limits
4165-60-0	Nitrobenzene-d5	88%	80%	83%	30-130%
321-60-8	2-Fluorobiphenyl	78%	75%	77%	30-130%
1718-51-0	Terphenyl-d14	103%	95%	102%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3505-CC3483	**Injection Date:**	01/22/15
Lab File ID:	I93954.D	**Injection Time:**	08:31
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	273888	3.66	545047	4.70	314355	6.22	546633	7.54	388051	10.31	977199	11.75
Upper Limit [a]	547776	4.16	1090094	5.20	628710	6.72	1093266	8.04	776102	10.81	1954398	12.25
Lower Limit [b]	136944	3.16	272524	4.20	157178	5.72	273317	7.04	194026	9.81	488600	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**
OP41700-MB	299850	3.66	606166	4.70	347365	6.22	578082	7.54	421258	10.31	1046470	11.75
OP41700-BS	306530	3.67	628552	4.71	343493	6.23	610588	7.55	430807	10.32	1048555	11.76
OP41700-MS	286552	3.67	587353	4.71	327909	6.23	584903	7.55	414670	10.32	1008621	11.75
OP41700-MSD	288054	3.67	593596	4.71	329617	6.23	591856	7.55	417473	10.32	1018249	11.75
MC36400-8	283287	3.66	583784	4.70	332788	6.22	564820	7.54	403668	10.31	1005301	11.75
MC36465-1	288506	3.67	554304	4.71	326470	6.23	560427	7.55	400006	10.31	1005761	11.75
ZZZZZZ	304684	3.66	614032	4.71	124867[c]	6.22	533728	7.54	275527	10.31	23109[d]	11.74
ZZZZZZ	265401	3.66	541710	4.70	309855	6.22	531016	7.54	384500	10.31	936933	11.75
ZZZZZZ	259751	3.66	532432	4.70	309477	6.22	535296	7.54	389561	10.31	961077	11.75
MC36465-2	290458	3.68	603639	4.71	374798	6.23	607604	7.56	431111	10.32	1026081	11.75
MC36465-3	278420	3.66	570075	4.70	322757	6.23	561186	7.55	407653	10.32	939443	11.76
MC36465-4	282223	3.66	578772	4.70	331119	6.22	568242	7.54	404966	10.31	1001415	11.75
MC36465-5	276451	3.67	573687	4.71	338169	6.23	572852	7.55	416610	10.32	1031616	11.76
MC36465-6	276410	3.67	555626	4.71	323513	6.23	544767	7.55	390950	10.32	963254	11.75

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.
(c) Outside control limits due to possible matrix interference. Confirmed by refractionation.
(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW873-CC868	**Injection Date:**	01/23/15
Lab File ID:	W20010.D	**Injection Time:**	08:19
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	163582	4.61	562544	5.72	361253	7.25	615514	8.52	684742	10.93	655081	12.50
Upper Limit [a]	327164	5.11	1125088	6.22	722506	7.75	1231028	9.02	1369484	11.43	1310162	13.00
Lower Limit [b]	81791	4.11	281272	5.22	180627	6.75	307757	8.02	342371	10.43	327541	12.00

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
OP41775-MB	174066	4.61	596321	5.71	374052	7.24	635213	8.51	661755	10.92	633958	12.49
OP41775-BS	171495	4.61	573017	5.72	363131	7.25	612714	8.52	636714	10.92	596915	12.50
OP41775-BSD	166418	4.61	571608	5.72	363155	7.25	598300	8.52	647382	10.92	614146	12.50
MC36465-2	177420	4.61	619447	5.72	421737	7.25	659637	8.52	714428	10.92	683687	12.50
ZZZZZZ	187275	4.61	633111	5.71	406486	7.24	678910	8.51	693630	10.92	629781	12.50
OP41775-MS	183146	4.61	622574	5.72	380638	7.25	633939	8.52	631453	10.93	579310	12.50
OP41775-MSD	172758	4.61	587365	5.72	369954	7.25	609716	8.52	622979	10.93	573114	12.50
MC36526-2	182925	4.61	622834	5.71	391429	7.24	637207	8.51	639899	10.92	585109	12.50
ZZZZZZ	146892	4.61	509500	5.71	321883	7.25	527364	8.52	563024	10.93	541712	12.50
ZZZZZZ	151613	4.61	518329	5.71	334567	7.25	538464	8.52	555502	10.93	527924	12.51
ZZZZZZ	166716	4.61	568197	5.71	358558	7.24	591480	8.52	606217	10.92	547749	12.50
ZZZZZZ	181897	4.61	612549	5.71	390564	7.25	632970	8.52	619793	10.92	564628	12.50
ZZZZZZ	156966	4.61	543779	5.71	346632	7.24	584938	8.51	578290	10.92	533743	12.50
ZZZZZZ	159369	4.61	558721	5.72	357833	7.25	578454	8.52	573709	10.93	534715	12.50
ZZZZZZ	158941	4.61	539898	5.71	348216	7.24	579658	8.52	589601	10.92	532853	12.50
ZZZZZZ	174590	4.61	583387	5.71	363369	7.25	581945	8.53	573401	10.94	531681	12.52
OP41754-MB	179828	4.61	613537	5.71	387609	7.25	657989	8.52	668372	10.92	597144	12.50
OP41754-BS	163055	4.61	572031	5.72	361298	7.25	614605	8.52	627830	10.93	573859	12.50
ZZZZZZ	180616	4.61	612630	5.71	379770	7.25	639184	8.52	636612	10.92	558804	12.50
ZZZZZZ	164537	4.61	543335	5.71	339330	7.25	571439	8.52	557884	10.92	524525	12.50
ZZZZZZ	161739	4.61	548241	5.71	333822	7.24	566835	8.52	555677	10.92	511338	12.50
ZZZZZZ	172455	4.61	586856	5.71	367615	7.25	639040	8.52	633887	10.92	592903	12.50
ZZZZZZ	184537	4.61	629366	5.71	395535	7.25	657631	8.52	667307	10.92	620355	12.50
ZZZZZZ	166588	4.61	579489	5.71	366399	7.25	614582	8.52	622914	10.92	577664	12.50
ZZZZZZ	175039	4.61	592546	5.71	372302	7.25	642036	8.52	640018	10.92	589709	12.50
ZZZZZZ	180572	4.61	598489	5.71	385599	7.25	651353	8.52	632535	10.92	584872	12.50

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW873-CC868	**Injection Date:**	01/23/15
Lab File ID:	W20010.D	**Injection Time:**	08:19
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX177-CC176	**Injection Date:**	01/22/15
Lab File ID:	X05425.D	**Injection Time:**	08:29
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	593731	4.31	2278871	5.37	1317013	6.91	2267892	8.20	2201844	10.84	1801339	12.57
Upper Limit [a]	1187462	4.81	4557742	5.87	2634026	7.41	4535784	8.70	4403688	11.34	3602678	13.07
Lower Limit [b]	296866	3.81	1139436	4.87	658507	6.41	1133946	7.70	1100922	10.34	900670	12.07

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
OP41699-MB	607160	4.31	2427948	5.37	1396360	6.90	2371764	8.20	2389329	10.83	2149669	12.57
OP41699-BS	628551	4.31	2543317	5.37	1469157	6.91	2470239	8.20	2313178	10.84	2149795	12.57
OP41699-MS	640668	4.31	2443652	5.37	1326523	6.91	2395171	8.20	2252578	10.84	1792685	12.57
OP41699-MSD	633874	4.31	2448743	5.37	1397710	6.91	2367940	8.20	2243063	10.84	1999033	12.57
MC36400-7	616849	4.31	2379308	5.37	1390672	6.90	2408407	8.20	2223460	10.83	2078068	12.57
ZZZZZZ	675829	4.31	2504672	5.37	340249[c]	6.90	1913652	8.20	794200[d]	10.83	13393[e]	12.56
MC36465-1	648997	4.31	2511622	5.37	1454454	6.91	2467591	8.20	2189343	10.83	1996580	12.57
MC36465-3	681350	4.31	2616069	5.37	1475715	6.91	2399860	8.20	2041176	10.83	1903717	12.57
MC36465-4	619474	4.31	2443087	5.37	1372955	6.90	2420663	8.20	2353254	10.83	2104457	12.57
MC36465-5	659672	4.31	2424642	5.37	1448362	6.91	2448071	8.20	2311235	10.83	2106624	12.57
MC36465-6	603715	4.31	2286764	5.37	1298147	6.91	2256717	8.20	2228283	10.83	1968883	12.57
ZZZZZZ	589118	4.31	2228073	5.37	1279848	6.90	2141231	8.20	2272406	10.83	2009774	12.57
ZZZZZZ	589118	4.31	2228073	5.37	1279848	6.90	2141231	8.20	2272406	10.83	2009774	12.57
ZZZZZZ	572755	4.31	2278109	5.37	1295465	6.90	2339209	8.20	2264232	10.83	2003983	12.57
ZZZZZZ	572755	4.31	2278109	5.37	1295465	6.90	2339209	8.20	2264232	10.83	2003983	12.57
ZZZZZZ	634195	4.31	2326078	5.37	1343536	6.90	2296876	8.20	2418528	10.83	2129157	12.57
ZZZZZZ	634195	4.31	2326078	5.37	1343536	6.90	2296876	8.20	2418528	10.83	2129157	12.57
ZZZZZZ	585107	4.31	2327497	5.37	1335524	6.90	2196875	8.20	2271318	10.83	2065780	12.57
ZZZZZZ	585107	4.31	2327497	5.37	1335524	6.90	2196875	8.20	2271318	10.83	2065780	12.57
OP41737-MB	725702	4.31	2653041	5.37	1596737	6.90	2730689	8.20	2393654	10.83	1792391	12.57
OP41737-BS	749844	4.31	2969704	5.37	1601832	6.91	2725588	8.20	2206359	10.83	2022564	12.57
ZZZZZZ	725930	4.31	2864791	5.37	1656496	6.90	2636728	8.20	2426614	10.83	1957989	12.57
ZZZZZZ	749131	4.31	2875655	5.37	1629439	6.90	2718857	8.20	2261960	10.83	1822145	12.57
ZZZZZZ	691040	4.31	2633817	5.37	1508839	6.90	2509919	8.20	2035492	10.83	1833132	12.57
ZZZZZZ	681301	4.31	2612579	5.37	1461462	6.90	2520020	8.20	1994415	10.83	1640545	12.57
ZZZZZZ	866097	4.31	3299970	5.37	1757096	6.90	2841269	8.20	2277111	10.83	1939839	12.57
ZZZZZZ	837869	4.31	3248072	5.37	1826793	6.90	3015946	8.20	2450325	10.83	1834368	12.57
ZZZZZZ	701546	4.31	2658392	5.37	1483672	6.90	2461608	8.19	2042641	10.83	1612952	12.56
ZZZZZZ	838226	4.31	3184854	5.37	1731733	6.90	2976934	8.20	2329946	10.83	1824864	12.57
ZZZZZZ	829448	4.31	3146059	5.37	1750084	6.90	3001835	8.20	2452321	10.83	1792680	12.56
ZZZZZZ	795683	4.31	3046332	5.37	1643673	6.90	2777260	8.20	2399552	10.83	1732038	12.56
OP41726-MB	675191	4.31	2608592	5.37	1466634	6.90	2431964	8.19	1972406	10.83	1602062	12.56
OP41726-BS	634763	4.31	2379189	5.37	1279757	6.90	2097722	8.20	1776321	10.83	1439766	12.57
OP41726-BSD	694118	4.31	2591825	5.37	1453686	6.91	2446514	8.20	1983547	10.83	1541820	12.57
ZZZZZZ	749145	4.31	2868676	5.37	1540756	6.90	2523697	8.20	2038990	10.83	1745618	12.57

Semivolatile Internal Standard Area Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX177-CC176	**Injection Date:**	01/22/15
Lab File ID:	X05425.D	**Injection Time:**	08:29
Instrument ID:	GCMSX	**Method:**	SW846 8270D

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
ZZZZZZ	817122	4.31	2990786	5.37	1661148	6.90	2702421	8.20	2083537	10.83	1878940	12.57
ZZZZZZ	746872	4.31	2880948	5.37	1593454	6.90	2592152	8.20	2040641	10.83	1664984	12.56

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.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference.
(d) Outside control limits due to possible matrix interference. Confirmed by refractionation.
(e) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36465-1	X05432.D	44	33	87	80	80	97
MC36465-2	W20015.D	80	36	93	83	73	93
MC36465-3	X05434.D	48	33	99	81	86	101
MC36465-4	X05435.D	48	33	84	79	82	95
MC36465-5	X05436.D	48	32	102	84	84	101
MC36465-6	X05437.D	45	31	97	82	85	98
OP41699-BS	X05427.D	51	35	85	82	76	97
OP41699-MB	X05426.D	49	34	77	79	76	92
OP41699-MS	X05428.D	51	35	90	87	89	101
OP41699-MSD	X05429.D	48	33	82	81	82	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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36465-1	I93960.D	81	74	102
MC36465-2	I93964.D	79	60	102
MC36465-3	I93965.D	82	78	106
MC36465-4	I93966.D	79	74	101
MC36465-5	I93967.D	81	73	103
MC36465-6	I93968.D	77	72	106
OP41700-BS	I93956.D	83	74	102
OP41700-MB	I93955.D	80	68	104
OP41700-MS	I93957.D	88	78	103
OP41700-MSD	I93958.D	80	75	95

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-MB	BB61538.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-8

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	129%	36-173%
460-00-4	Bromofluorobenzene (S)	121%	36-173%

Blank Spike Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-BS	BB61539.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.068	96	60-140
106-93-4	1,2-Dibromoethane	0.071	0.063	89	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	125%	36-173%
460-00-4	Bromofluorobenzene (S)	116%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41739-MS	BB61540.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
OP41739-MSD	BB61541.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381
MC36440-1	BB61543.D	1	01/21/15	NK	01/20/15	OP41739	GBB3381

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

MC36465-1, MC36465-2, MC36465-3, MC36465-4, MC36465-5, MC36465-6, MC36465-8

CAS No.	Compound	MC36440-1 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		0.0683	0.069	101	0.0673	0.068	101	1	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0683	0.077	113	0.0673	0.069	102	11	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC36440-1	Limits
460-00-4	Bromofluorobenzene (S)	126%	140%	135%	36-173%
460-00-4	Bromofluorobenzene (S)	126%	145%	139%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36465-1	BB61551.D	146	181* [c]
MC36465-2	BB61552.D	168	180* [c]
MC36465-3	BB61553.D	173	204* [c]
MC36465-4	BB61554.D	163	156
MC36465-5	BB61555.D	155	192* [c]
MC36465-6	BB61556.D	173	194* [c]
MC36465-8	BB61557.D	163	152
OP41739-BS	BB61539.D	125	116
OP41739-MB	BB61538.D	129	121
OP41739-MS	BB61540.D	126	126
OP41739-MSD	BB61541.D	140	145

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.Sample non-detect for targets analyte.

GC Surrogate Retention Time Summary

Job Number: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3381-CC3380	**Injection Date:**	01/21/15
Lab File ID:	BB61537.D	**Injection Time:**	07:59
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41739-MB	BB61538.D	01/21/15	08:26	4.81	4.93
OP41739-BS	BB61539.D	01/21/15	08:48	4.81	4.93
OP41739-MS	BB61540.D	01/21/15	09:10	4.81	4.93
OP41739-MSD	BB61541.D	01/21/15	09:32	4.81	4.93
ZZZZZZ	BB61542.D	01/21/15	09:54	4.81	4.93
MC36440-1	BB61543.D	01/21/15	10:16	4.81	4.93
ZZZZZZ	BB61544.D	01/21/15	10:38	4.81	4.93
ZZZZZZ	BB61545.D	01/21/15	11:00	4.81	4.93
ZZZZZZ	BB61546.D	01/21/15	11:22	4.81	4.93
ZZZZZZ	BB61547.D	01/21/15	11:43	4.81	4.93

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: MC36465
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3381-CC3380	**Injection Date:**	01/21/15
Lab File ID:	BB61548.D	**Injection Time:**	12:05
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB61549.D	01/21/15	12:27	4.81	4.93
ZZZZZZ	BB61550.D	01/21/15	12:48	4.81	4.93
MC36465-1	BB61551.D	01/21/15	13:10	4.81	4.93
MC36465-2	BB61552.D	01/21/15	13:32	4.81	4.93
MC36465-3	BB61553.D	01/21/15	13:54	4.81	4.93
MC36465-4	BB61554.D	01/21/15	14:16	4.81	4.93
MC36465-5	BB61555.D	01/21/15	14:38	4.81	4.93
MC36465-6	BB61556.D	01/21/15	15:00	4.81	4.93
MC36465-8	BB61557.D	01/21/15	15:21	4.81	4.93
GBB3381-ECC3380	BB61558.D	01/21/15	15:44	4.81	4.93

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 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36503

Sampling Date: 01/19/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 105

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

November 03, 2016

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

RE: SGS Accutest Job # MC36503

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: MC36503

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36503-1	01/19/15	10:05	DCDH	01/20/15	AQ	Ground Water	P74-ROX-011915
MC36503-2	01/19/15	10:30	DCDH	01/20/15	AQ	Equipment Blank	P93C-ROX-011915-EB
MC36503-3	01/19/15	11:30	DCDH	01/20/15	AQ	Ground Water	P93C-ROX-011915
MC36503-4	01/19/15	13:35	DCDH	01/20/15	AQ	Ground Water	P56-ROX-011915
MC36503-5	01/19/15	14:20	DCDH	01/20/15	AQ	Ground Water	T12-ROX-011915
MC36503-6	01/19/15	15:10	DCDH	01/20/15	AQ	Ground Water	P59-ROX-011915
MC36503-7	01/19/15	00:00	DCDH	01/20/15	AQ	Trip Blank Water	TB-ROX-011915-HCL
MC36503-8	01/19/15	00:00	DCDH	01/20/15	AQ	Trip Blank Water	TB-ROX-011915-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36503

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 3: 9:34 PM

6 Samp e(s), 2 Tr p B ank(s) were co ected on 0 / 9/20 5 and were rece ved at SGS Accutest New Eng and on 0 /20/20 5 proper y preserved, at 0 3 Deg C and ntact These Samp es rece ved a job number of MC36503 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 8260C

Matrix: AQ **Batch ID:** MSL4005

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36465-4MS, MC36465-4MSD 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 Dup cate Recove y(s) for ,4-D oxane 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 ,4-D oxane, Acetone are outs de contro m ts for samp e MC36465-4MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- trans- ,2-D ch oroethene: 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

Matrix: AQ **Batch ID:** MSL4006

- 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) MC36545- 9MS, MC36545- 9MSD were used as the QC samp es nd cated

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 74

- 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) MC36400- 7MS, MC36400- 7MSD were used as the QC samp es nd cated
- In t a ca brat on ver f cat on MSF3446-ICV3446 for Hexach orocyc opentad ene exc eed 30% D fference
- OP4 74 -MS/MSD Recovery(s) for 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

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 742

- 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) MC36400- 8MS, MC36400- 8MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job
- Samp e(s) MC36503- , MC36503-2, MC36503-3 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 806

- 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) MC36600-6MS, MC36600-6MSD 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
- MC36503-4,5,6 for Bromof uorobenzene (S): Outs de contro m ts Samp e non-detect for targets ana yte
- OP4 806-MS/MSD for Bromof uorobenzene (S): Outs de contro m ts due to poss b e matr x nte ference

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(MC36503)

Summary of Hits

Job Number: MC36503
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/19/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36503-1	P74-ROX-011915					
Benzene		3130	50	25	ug/l	SW846 8260C
n-Butylbenzene		16.3	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		2.2 J	5.0	0.42	ug/l	SW846 8260C
Ethylbenzene		82.0	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		2.9 J	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		2.9 J	5.0	0.37	ug/l	SW846 8260C
Methyl Tert Butyl Ether		5.6	1.0	0.22	ug/l	SW846 8260C
Naphthalene		19.3	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		5.3	5.0	0.49	ug/l	SW846 8260C
Toluene		102	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		135	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		58.9	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		197	1.0	0.38	ug/l	SW846 8260C
o-Xylene		19.0	1.0	0.30	ug/l	SW846 8260C
Xylene (total)		216	1.0	0.30	ug/l	SW846 8260C
2,4-Dimethylphenol		20.0	11	0.60	ug/l	SW846 8270D
Phenol		16.9	5.3	0.32	ug/l	SW846 8270D
Acenaphthene		0.18	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.061 J	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene		0.046 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluoranthene		0.053 J	0.11	0.0079	ug/l	SW846 8270D BY SIM
Fluorene		0.23	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		7.7	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		10.7	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.15 B	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.038 J	0.11	0.0090	ug/l	SW846 8270D BY SIM
MC36503-2	P93C-ROX-011915-EB					
Benzene		1.8	0.50	0.25	ug/l	SW846 8260C
Ethylbenzene		0.31 J	1.0	0.25	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.1 J	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.50 J	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene		0.85 J	1.0	0.38	ug/l	SW846 8260C
Xylene (total)		1.0	1.0	0.30	ug/l	SW846 8260C
1-Methylnaphthalene		0.022 JB	2.2	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.032 JB	2.2	0.012	ug/l	SW846 8270D BY SIM
MC36503-3	P93C-ROX-011915					
Benzene		102000	500	250	ug/l	SW846 8260C
Phenol		30.9	5.4	0.32	ug/l	SW846 8270D
1-Methylnaphthalene		0.033 JB	2.2	0.013	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36503
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/19/15

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
2-Methylnaphthalene	0.042 JB	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	0.033 JB	0.054	0.012	ug/l	SW846 8270D BY SIM
MC36503-4 P56-ROX-011915					
Benzene	99.1	0.50	0.25	ug/l	SW846 8260C
n-Butylbenzene	4.0 J	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene	3.7 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene	0.77 J	5.0	0.39	ug/l	SW846 8260C
Carbon disulfide	4.0 J	5.0	0.46	ug/l	SW846 8260C
Chloromethane	4.5	2.0	0.59	ug/l	SW846 8260C
Ethylbenzene	104	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene	53.2	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene	3.0 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene	26.1	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene	57.4	5.0	0.49	ug/l	SW846 8260C
Toluene	11.4	1.0	0.22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	46.6	5.0	0.30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene	13.5	5.0	0.18	ug/l	SW846 8260C
m,p-Xylene	143	1.0	0.38	ug/l	SW846 8260C
o-Xylene	4.3	1.0	0.30	ug/l	SW846 8260C
Xylene (total)	148	1.0	0.30	ug/l	SW846 8260C
Acenaphthene	0.68	0.11	0.0081	ug/l	SW846 8270D BY SIM
Acenaphthylene	0.079 J	0.11	0.0090	ug/l	SW846 8270D BY SIM
Anthracene	0.097 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Fluorene	0.30	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	19.7	2.2	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	22.3	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	1.1	0.054	0.012	ug/l	SW846 8270D BY SIM
Pyrene	0.030 J	0.11	0.0091	ug/l	SW846 8270D BY SIM
MC36503-5 T12-ROX-011915					
Benzene	2020	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene	11.5 J	50	11	ug/l	SW846 8260C
Ethylbenzene	596	10	2.5	ug/l	SW846 8260C
Isopropylbenzene	43.2 J	50	3.5	ug/l	SW846 8260C
Methyl Tert Butyl Ether	3.3 J	10	2.2	ug/l	SW846 8260C
Naphthalene	196	50	6.9	ug/l	SW846 8260C
n-Propylbenzene	74.5	50	4.9	ug/l	SW846 8260C
Toluene	337	10	2.2	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	391	50	3.0	ug/l	SW846 8260C
1,3,5-Trimethylbenzene	52.1	50	1.8	ug/l	SW846 8260C
m,p-Xylene	1300	10	3.8	ug/l	SW846 8260C
o-Xylene	74.7	10	3.0	ug/l	SW846 8260C

Summary of Hits

Job Number: MC36503
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/19/15

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Xylene (total)	1380	10	3.0	ug/l	SW846 8260C
2,4-Dimethylphenol	6.9 J	11	0.59	ug/l	SW846 8270D
2-Methylphenol	5.5 J	11	0.24	ug/l	SW846 8270D
3&4-Methylphenol	1.6 J	11	0.49	ug/l	SW846 8270D
Phenol	15.5	5.3	0.32	ug/l	SW846 8270D
Acenaphthene	0.39	0.11	0.0079	ug/l	SW846 8270D BY SIM
Acenaphthylene	0.064 J	0.11	0.0088	ug/l	SW846 8270D BY SIM
Anthracene	0.13	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluorene	0.32	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	21.0	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	33.2	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	0.82	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene	0.055 J	0.11	0.0089	ug/l	SW846 8270D BY SIM
Total TIC, Semi-Volatile	6.9 J			ug/l	
MC36503-6 P59-ROX-011915					
Benzene	13500	50	25	ug/l	SW846 8260C
Ethylbenzene	2200	100	25	ug/l	SW846 8260C
Isopropylbenzene	61.9 J	500	35	ug/l	SW846 8260C
Naphthalene	572	500	69	ug/l	SW846 8260C
n-Propylbenzene	108 J	500	49	ug/l	SW846 8260C
Toluene	375	100	22	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	609	500	30	ug/l	SW846 8260C
1,3,5-Trimethylbenzene	210 J	500	18	ug/l	SW846 8260C
m,p-Xylene	4950	100	38	ug/l	SW846 8260C
o-Xylene	245	100	30	ug/l	SW846 8260C
Xylene (total)	5200	100	30	ug/l	SW846 8260C
2,4-Dimethylphenol	153	11	0.60	ug/l	SW846 8270D
2-Methylphenol	78.9	11	0.24	ug/l	SW846 8270D
3&4-Methylphenol	14.5	11	0.50	ug/l	SW846 8270D
Phenol	16.9	5.4	0.32	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate	0.42 J	2.2	0.36	ug/l	SW846 8270D
Acenaphthene	0.75	0.11	0.0081	ug/l	SW846 8270D BY SIM
Acenaphthylene	0.13	0.11	0.0090	ug/l	SW846 8270D BY SIM
Anthracene	0.21	0.11	0.011	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene	0.038 J	0.054	0.025	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene	0.021 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene	0.020 J	0.11	0.013	ug/l	SW846 8270D BY SIM
Chrysene	0.047 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Fluoranthene	0.14	0.11	0.0080	ug/l	SW846 8270D BY SIM
Fluorene	0.73	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene	14.5	2.2	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene	21.6	2.2	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene	1.3	0.054	0.012	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36503
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/19/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		0.27	0.11	0.0091	ug/l	SW846 8270D BY SIM

MC36503-7 **TB-ROX-011915-HCL**

No hits reported in this sample.

MC36503-8 **TB-ROX-011915-ST**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90498.D	1	01/28/15	GK	n/a	n/a	MSL4005
Run #2	L90532.D	100	01/30/15	GK	n/a	n/a	MSL4006

	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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	3130 [a]	50	25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	16.3	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	2.2	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [b]	ND	1.0	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:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	82.0	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	2.9	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	2.9	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	5.6	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	19.3	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	5.3	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	102	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	135	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	58.9	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	197	1.0	0.38	ug/l	
95-47-6	o-Xylene	19.0	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	216	1.0	0.30	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:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	106%	67-134%
2037-26-5	Toluene-D8	101%	96%	79-121%
460-00-4	4-Bromofluorobenzene	93%	99%	71-133%

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

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

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:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79504.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	20.0	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	16.9	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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%		10-73%
4165-62-2	Phenol-d5	31%		10-58%
118-79-6	2,4,6-Tribromophenol	101%		15-125%
4165-60-0	Nitrobenzene-d5	84%		23-120%
321-60-8	2-Fluorobiphenyl	87%		31-102%
1718-51-0	Terphenyl-d14	103%		42-124%

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:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93984.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.0080	ug/l	
208-96-8	Acenaphthylene	0.061	0.11	0.0089	ug/l	J
120-12-7	Anthracene	0.046	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.053	0.11	0.0079	ug/l	J
86-73-7	Fluorene	0.23	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	7.7	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	10.7	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.15	0.053	0.011	ug/l	B
129-00-0	Pyrene	0.038	0.11	0.0090	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	107%		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:	P74-ROX-011915		
Lab Sample ID:	MC36503-1	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61590.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		60-140%
460-00-4	Bromofluorobenzene (S)	139%		60-140%

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

J = Indicates 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-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90496.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1.8	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	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:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.31	1.0	0.25	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.1	5.0	0.30	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.50	5.0	0.18	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	0.85	1.0	0.38	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.0	1.0	0.30	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:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	97%		71-133%

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

(a) 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:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79505.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	42%		10-73%
4165-62-2	Phenol-d5	30%		10-58%
118-79-6	2,4,6-Tribromophenol	97%		15-125%
4165-60-0	Nitrobenzene-d5	84%		23-120%
321-60-8	2-Fluorobiphenyl	86%		31-102%
1718-51-0	Terphenyl-d14	105%		42-124%

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:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93985.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.0081	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0090	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0080	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.022	2.2	0.013	ug/l	JB
91-57-6	2-Methylnaphthalene	0.032	2.2	0.012	ug/l	JB
85-01-8	Phenanthrene	ND	0.054	0.012	ug/l	
129-00-0	Pyrene	ND	0.11	0.0091	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	108%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-011915-EB		
Lab Sample ID:	MC36503-2	**Date Sampled:**	01/19/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61591.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		60-140%
460-00-4	Bromofluorobenzene (S)	130%		60-140%

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

J = Indicates 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-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90508.D	100	01/28/15	GK	n/a	n/a	MSL4005
Run #2	L90533.D	1000	01/30/15	GK	n/a	n/a	MSL4006

	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	1000	250	ug/l	
107-02-8	Acrolein	ND	2500	600	ug/l	
107-13-1	Acrylonitrile	ND	500	210	ug/l	
71-43-2	Benzene	102000 [a]	500	250	ug/l	
108-86-1	Bromobenzene	ND	500	35	ug/l	
74-97-5	Bromochloromethane	ND	500	42	ug/l	
75-27-4	Bromodichloromethane	ND	100	47	ug/l	
75-25-2	Bromoform	ND	100	30	ug/l	
74-83-9	Bromomethane	ND	200	77	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	250	ug/l	
104-51-8	n-Butylbenzene	ND	500	110	ug/l	
135-98-8	sec-Butylbenzene	ND	500	42	ug/l	
98-06-6	tert-Butylbenzene	ND	500	39	ug/l	
75-15-0	Carbon disulfide	ND	500	46	ug/l	
56-23-5	Carbon tetrachloride	ND	100	23	ug/l	
108-90-7	Chlorobenzene	ND	100	25	ug/l	
75-00-3	Chloroethane	ND	200	37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	500	330	ug/l	
67-66-3	Chloroform	ND	100	31	ug/l	
74-87-3	Chloromethane	ND	200	59	ug/l	
95-49-8	o-Chlorotoluene	ND	500	38	ug/l	
106-43-4	p-Chlorotoluene	ND	500	45	ug/l	
124-48-1	Dibromochloromethane	ND	100	26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	71	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	33	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene [b]	ND	100	47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	200	45	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	89	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	130	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	38	ug/l	
123-91-1	1,4-Dioxane	ND	2500	1100	ug/l	
97-63-2	Ethyl methacrylate	ND	500	50	ug/l	
100-41-4	Ethylbenzene	ND	100	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	170	ug/l	
591-78-6	2-Hexanone	ND	500	160	ug/l	
98-82-8	Isopropylbenzene	ND	500	35	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	99	ug/l	
74-95-3	Methylene bromide	ND	500	52	ug/l	
75-09-2	Methylene chloride	ND	200	39	ug/l	
91-20-3	Naphthalene	ND	500	69	ug/l	
103-65-1	n-Propylbenzene	ND	500	49	ug/l	
100-42-5	Styrene	ND	500	29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	30	ug/l	
127-18-4	Tetrachloroethene	ND	100	29	ug/l	
108-88-3	Toluene	ND	100	22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	500	68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	500	19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	30	ug/l	
79-01-6	Trichloroethene	ND	100	40	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	18	ug/l	
108-05-4	Vinyl Acetate	ND	500	71	ug/l	
75-01-4	Vinyl chloride	ND	100	45	ug/l	
	m,p-Xylene	ND	100	38	ug/l	
95-47-6	o-Xylene	ND	100	30	ug/l	
1330-20-7	Xylene (total)	ND	100	30	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-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	105%	67-134%
2037-26-5	Toluene-D8	98%	96%	79-121%
460-00-4	4-Bromofluorobenzene	96%	99%	71-133%

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

(a) Result is from Run# 2
(b) 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:	P93C-ROX-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79506.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	30.9	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	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-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	48%		10-73%
4165-62-2	Phenol-d5	33%		10-58%
118-79-6	2,4,6-Tribromophenol	108%		15-125%
4165-60-0	Nitrobenzene-d5	89%		23-120%
321-60-8	2-Fluorobiphenyl	93%		31-102%
1718-51-0	Terphenyl-d14	106%		42-124%

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

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Report of Analysis

Client Sample ID:	P93C-ROX-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93986.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.0081	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0090	ug/l	
120-12-7	Anthracene	ND	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0080	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.033	2.2	0.013	ug/l	JB
91-57-6	2-Methylnaphthalene	0.042	2.2	0.012	ug/l	JB
85-01-8	Phenanthrene	0.033	0.054	0.012	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.0091	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%
1718-51-0	Terphenyl-d14	114%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-011915		
Lab Sample ID:	MC36503-3	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61592.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	89%		60-140%
460-00-4	Bromofluorobenzene (S)	101%		60-140%

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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:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90502.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	99.1	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	4.0	5.0	1.1	ug/l	J
135-98-8	sec-Butylbenzene	3.7	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	0.77	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	4.0	5.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	4.5	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	0.47	ug/l	

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Report of Analysis

Client Sample ID:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	104	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	53.2	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	3.0	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	26.1	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	57.4	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	11.4	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	46.6	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	13.5	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	143	1.0	0.38	ug/l	
95-47-6	o-Xylene	4.3	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	148	1.0	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	92%		71-133%

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

(a) Continuing 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:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79507.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/l	

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Report of Analysis

Client Sample ID:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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%		10-73%
4165-62-2	Phenol-d5	31%		10-58%
118-79-6	2,4,6-Tribromophenol	105%		15-125%
4165-60-0	Nitrobenzene-d5	82%		23-120%
321-60-8	2-Fluorobiphenyl	86%		31-102%
1718-51-0	Terphenyl-d14	103%		42-124%

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:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93987.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.68	0.11	0.0081	ug/l	
208-96-8	Acenaphthylene	0.079	0.11	0.0090	ug/l	J
120-12-7	Anthracene	0.097	0.11	0.011	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.054	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0080	ug/l	
86-73-7	Fluorene	0.30	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	19.7	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	22.3	2.2	0.012	ug/l	
85-01-8	Phenanthrene	1.1	0.054	0.012	ug/l	
129-00-0	Pyrene	0.030	0.11	0.0091	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	110%		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:	P56-ROX-011915		
Lab Sample ID:	MC36503-4	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61593.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	103%		60-140%
460-00-4	Bromofluorobenzene (S)	143% [a]		60-140%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90507.D	10	01/28/15	GK	n/a	n/a	MSL4005
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	25	ug/l	
107-02-8	Acrolein	ND	250	60	ug/l	
107-13-1	Acrylonitrile	ND	50	21	ug/l	
71-43-2	Benzene	2020	5.0	2.5	ug/l	
108-86-1	Bromobenzene	ND	50	3.5	ug/l	
74-97-5	Bromochloromethane	ND	50	4.2	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.7	ug/l	
75-25-2	Bromoform	ND	10	3.0	ug/l	
74-83-9	Bromomethane	ND	20	7.7	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	25	ug/l	
104-51-8	n-Butylbenzene	11.5	50	11	ug/l	J
135-98-8	sec-Butylbenzene	ND	50	4.2	ug/l	
98-06-6	tert-Butylbenzene	ND	50	3.9	ug/l	
75-15-0	Carbon disulfide	ND	50	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.3	ug/l	
108-90-7	Chlorobenzene	ND	10	2.5	ug/l	
75-00-3	Chloroethane	ND	20	3.7	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	33	ug/l	
67-66-3	Chloroform	ND	10	3.1	ug/l	
74-87-3	Chloromethane	ND	20	5.9	ug/l	
95-49-8	o-Chlorotoluene	ND	50	3.8	ug/l	
106-43-4	p-Chlorotoluene	ND	50	4.5	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.6	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	2.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	1.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	3.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	7.1	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	2.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	4.4	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	10	4.7	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-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	4.5	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	8.9	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	4.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	4.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	3.8	ug/l	
123-91-1	1,4-Dioxane	ND	250	110	ug/l	
97-63-2	Ethyl methacrylate	ND	50	5.0	ug/l	
100-41-4	Ethylbenzene	596	10	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	17	ug/l	
591-78-6	2-Hexanone	ND	50	16	ug/l	
98-82-8	Isopropylbenzene	43.2	50	3.5	ug/l	J
99-87-6	p-Isopropyltoluene	ND	50	3.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.3	10	2.2	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	9.9	ug/l	
74-95-3	Methylene bromide	ND	50	5.2	ug/l	
75-09-2	Methylene chloride	ND	20	3.9	ug/l	
91-20-3	Naphthalene	196	50	6.9	ug/l	
103-65-1	n-Propylbenzene	74.5	50	4.9	ug/l	
100-42-5	Styrene	ND	50	2.9	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	2.9	ug/l	
108-88-3	Toluene	337	10	2.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	6.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	1.9	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	4.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	3.0	ug/l	
79-01-6	Trichloroethene	ND	10	4.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	5.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	8.1	ug/l	
95-63-6	1,2,4-Trimethylbenzene	391	50	3.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	52.1	50	1.8	ug/l	
108-05-4	Vinyl Acetate	ND	50	7.1	ug/l	
75-01-4	Vinyl chloride	ND	10	4.5	ug/l	
	m,p-Xylene	1300	10	3.8	ug/l	
95-47-6	o-Xylene	74.7	10	3.0	ug/l	
1330-20-7	Xylene (total)	1380	10	3.0	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:	T12-ROX-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-134%
2037-26-5	Toluene-D8	98%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

(a) 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:	T12-ROX-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79508.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	6.9	11	0.59	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	5.5	11	0.24	ug/l	J
	3&4-Methylphenol	1.6	11	0.49	ug/l	J
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	15.5	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	T12-ROX-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	47%		10-73%
4165-62-2	Phenol-d5	32%		10-58%
118-79-6	2,4,6-Tribromophenol	116%		15-125%
4165-60-0	Nitrobenzene-d5	84%		23-120%
321-60-8	2-Fluorobiphenyl	88%		31-102%
1718-51-0	Terphenyl-d14	105%		42-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-13-6	Indene	2.03	6.9	ug/l	JN
	Total TIC, Semi-Volatile		6.9	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93988.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.39	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	0.064	0.11	0.0088	ug/l	J
120-12-7	Anthracene	0.13	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	0.32	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	21.0	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	33.2	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.82	0.053	0.011	ug/l	
129-00-0	Pyrene	0.055	0.11	0.0089	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	110%		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-011915		
Lab Sample ID:	MC36503-5	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61594.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	114%		60-140%
460-00-4	Bromofluorobenzene (S)	146% [a]		60-140%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90509.D	100	01/28/15	GK	n/a	n/a	MSL4005
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	1000	250	ug/l	
107-02-8	Acrolein	ND	2500	600	ug/l	
107-13-1	Acrylonitrile	ND	500	210	ug/l	
71-43-2	Benzene	13500	50	25	ug/l	
108-86-1	Bromobenzene	ND	500	35	ug/l	
74-97-5	Bromochloromethane	ND	500	42	ug/l	
75-27-4	Bromodichloromethane	ND	100	47	ug/l	
75-25-2	Bromoform	ND	100	30	ug/l	
74-83-9	Bromomethane	ND	200	77	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	250	ug/l	
104-51-8	n-Butylbenzene	ND	500	110	ug/l	
135-98-8	sec-Butylbenzene	ND	500	42	ug/l	
98-06-6	tert-Butylbenzene	ND	500	39	ug/l	
75-15-0	Carbon disulfide	ND	500	46	ug/l	
56-23-5	Carbon tetrachloride	ND	100	23	ug/l	
108-90-7	Chlorobenzene	ND	100	25	ug/l	
75-00-3	Chloroethane	ND	200	37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	500	330	ug/l	
67-66-3	Chloroform	ND	100	31	ug/l	
74-87-3	Chloromethane	ND	200	59	ug/l	
95-49-8	o-Chlorotoluene	ND	500	38	ug/l	
106-43-4	p-Chlorotoluene	ND	500	45	ug/l	
124-48-1	Dibromochloromethane	ND	100	26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	71	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	33	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	100	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-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	200	45	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	89	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	130	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	38	ug/l	
123-91-1	1,4-Dioxane	ND	2500	1100	ug/l	
97-63-2	Ethyl methacrylate	ND	500	50	ug/l	
100-41-4	Ethylbenzene	2200	100	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	170	ug/l	
591-78-6	2-Hexanone	ND	500	160	ug/l	
98-82-8	Isopropylbenzene	61.9	500	35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	500	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	99	ug/l	
74-95-3	Methylene bromide	ND	500	52	ug/l	
75-09-2	Methylene chloride	ND	200	39	ug/l	
91-20-3	Naphthalene	572	500	69	ug/l	
103-65-1	n-Propylbenzene	108	500	49	ug/l	J
100-42-5	Styrene	ND	500	29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	30	ug/l	
127-18-4	Tetrachloroethene	ND	100	29	ug/l	
108-88-3	Toluene	375	100	22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	500	68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	500	19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	30	ug/l	
79-01-6	Trichloroethene	ND	100	40	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	609	500	30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	210	500	18	ug/l	J
108-05-4	Vinyl Acetate	ND	500	71	ug/l	
75-01-4	Vinyl chloride	ND	100	45	ug/l	
	m,p-Xylene	4950	100	38	ug/l	
95-47-6	o-Xylene	245	100	30	ug/l	
1330-20-7	Xylene (total)	5200	100	30	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:	P59-ROX-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	97%		71-133%

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

(a) Continuing 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:	P59-ROX-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F79541.D	1	01/26/15	KD	01/20/15	OP41741	MSF3460
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	153	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	78.9	11	0.24	ug/l	
	3&4-Methylphenol	14.5	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	16.9	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/l	

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Report of Analysis

Client Sample ID:	P59-ROX-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.42	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.27	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	43%		10-73%
4165-62-2	Phenol-d5	10%		10-58%
118-79-6	2,4,6-Tribromophenol	101%		15-125%
4165-60-0	Nitrobenzene-d5	64%		23-120%
321-60-8	2-Fluorobiphenyl	76%		31-102%
1718-51-0	Terphenyl-d14	100%		42-124%

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:	P59-ROX-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93989.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
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	0.75	0.11	0.0081	ug/l	
208-96-8	Acenaphthylene	0.13	0.11	0.0090	ug/l	
120-12-7	Anthracene	0.21	0.11	0.011	ug/l	
56-55-3	Benzo(a)anthracene	0.038	0.054	0.025	ug/l	J
50-32-8	Benzo(a)pyrene	0.021	0.11	0.016	ug/l	J
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.020	0.11	0.013	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	0.047	0.11	0.014	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.14	0.11	0.0080	ug/l	
86-73-7	Fluorene	0.73	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	14.5	2.2	0.013	ug/l	
91-57-6	2-Methylnaphthalene	21.6	2.2	0.012	ug/l	
85-01-8	Phenanthrene	1.3	0.054	0.012	ug/l	
129-00-0	Pyrene	0.27	0.11	0.0091	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	102%		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:	P59-ROX-011915		
Lab Sample ID:	MC36503-6	**Date Sampled:**	01/19/15
Matrix:	AQ - Ground Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61596.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	137%		60-140%
460-00-4	Bromofluorobenzene (S)	141% [a]		60-140%

(a) Outside control limits.Sample non-detect for targets analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-011915-HCL		
Lab Sample ID:	MC36503-7	**Date Sampled:**	01/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L90495.D	1	01/28/15	GK	n/a	n/a	MSL4005
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene [a]	ND	1.0	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:	TB-ROX-011915-HCL		
Lab Sample ID:	MC36503-7	**Date Sampled:**	01/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-011915-HCL		
Lab Sample ID:	MC36503-7	**Date Sampled:**	01/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/20/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	103%		71-133%

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

(a) 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-011915-ST		
Lab Sample ID:	MC36503-8	**Date Sampled:**	01/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/20/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61597.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		60-140%
460-00-4	Bromofluorobenzene (S)	136%		60-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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

MC36503

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

Shell O. roducts 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): 9 7 2 1 e s 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1-19-2015
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): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL:
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

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 / 21563720.03001
SAMPLER NAME(S) (Print): DChase | DHaxul
LAB USE ONLY

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P74-ROX-011915	1/19/15	1005	water	2			2	2	6	X	X	X	X	0.0	
-2	P93C-ROX-011915-EB		1030		2			2	2	6	X	X	X	X		
-3	P93C-ROX-011915		1130		2			2	2	6	X	X	X	X		
-4	P56-ROX-011915		1335		2			2	2	6	X	X	X	X		
-5	T12-ROX-011915		1420		2			2	2	6	X	X	X	X		
-6	P59-ROX-011915		1510		2			2	2	6	X	X	X	X		
-7	TB-ROX-011915-HCL		0000		2						X					
-8	TB-ROX-011915-ST		0000						2			X				Loc 18B, 262

Relinquished by (Signature)	Received by (Signature)	Date	Time
	FED EX#	1-19-2015	1700
PX			
	Received by: (Signature)	1-20-15	915
Relinquished by (Signature)	Received by: (Signature)	Date	Time

05/06 Revision

0.3°C
0.4°C

5.1 5

MC36503: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36503 **Client:** URS **Project:** ROXANA

Date / Time Received: 1/20/2015 9 15 00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 3/0 3) #2 (0 4/0 4)

Cooler Security	Y	or	N		Y	or	N
1 Custody Seals Present	☑		☐	3 COC Present	☑		☐
2 Custody Seals ntact	☑		☐	4 Smpl Dates/ ime OK	☑		☐

Cooler Temperature	Y	or	N
1 emp criteria achieved	☑		☐
2 hermometer D	G1		
3 Cooler media	ce (Bag)		
4 No Coolers	2		

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

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 H	☑		☐
2 All containers accounted or	☑		☐
3 Condition o sample	ntact		

Sample Integrity - Instructions	Y	or	N	N/A
1 Analysis requested is clear	☑		☐	
2 Bottles received or unspeci ied tests	☐		☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36503

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36503-1 Collected: 19-JAN-15 10:05 By: DCDH Received: 20-JAN-15 By: SAP P74-ROX-011915						
MC36503-1	SW846 8270D BY SIM	23-JAN-15 12:07	MR	20-JAN-15	MD	B8270SIMSL
MC36503-1	SW846 8270D	23-JAN-15 16:37	KD	20-JAN-15	MD	AB8270SL+
MC36503-1	SW846 8011	27-JAN-15 03:06	NK	24-JAN-15	MT	V8011SL
MC36503-1	SW846 8260C	28-JAN-15 14:18	GK			V8260SL+
MC36503-1	SW846 8260C	30-JAN-15 11:39	GK			V8260SL+
MC36503-2 Collected: 19-JAN-15 10:30 By: DCDH Received: 20-JAN-15 By: SAP P93C-ROX-011915-EB						
MC36503-2	SW846 8270D BY SIM	23-JAN-15 12:32	MR	20-JAN-15	MD	B8270SIMSL
MC36503-2	SW846 8270D	23-JAN-15 17:01	KD	20-JAN-15	MD	AB8270SL+
MC36503-2	SW846 8011	27-JAN-15 03:29	NK	24-JAN-15	MT	V8011SL
MC36503-2	SW846 8260C	28-JAN-15 13:18	GK			V8260SL+
MC36503-3 Collected: 19-JAN-15 11:30 By: DCDH Received: 20-JAN-15 By: SAP P93C-ROX-011915						
MC36503-3	SW846 8270D BY SIM	23-JAN-15 12:57	MR	20-JAN-15	MD	B8270SIMSL
MC36503-3	SW846 8270D	23-JAN-15 17:24	KD	20-JAN-15	MD	AB8270SL+
MC36503-3	SW846 8011	27-JAN-15 03:53	NK	24-JAN-15	MT	V8011SL
MC36503-3	SW846 8260C	28-JAN-15 19:17	GK			V8260SL+
MC36503-3	SW846 8260C	30-JAN-15 12:08	GK			V8260SL+
MC36503-4 Collected: 19-JAN-15 13:35 By: DCDH Received: 20-JAN-15 By: SAP P56-ROX-011915						
MC36503-4	SW846 8270D BY SIM	23-JAN-15 13:20	MR	20-JAN-15	MD	B8270SIMSL
MC36503-4	SW846 8270D	23-JAN-15 17:48	KD	20-JAN-15	MD	AB8270SL+
MC36503-4	SW846 8011	27-JAN-15 04:15	NK	24-JAN-15	MT	V8011SL
MC36503-4	SW846 8260C	28-JAN-15 16:16	GK			V8260SL+
MC36503-5 Collected: 19-JAN-15 14:20 By: DCDH Received: 20-JAN-15 By: SAP T12-ROX-011915						
MC36503-5	SW846 8270D BY SIM	23-JAN-15 13:44	MR	20-JAN-15	MD	B8270SIMSL
MC36503-5	SW846 8270D	23-JAN-15 18:12	KD	20-JAN-15	MD	AB8270SL+
MC36503-5	SW846 8011	27-JAN-15 04:38	NK	24-JAN-15	MT	V8011SL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36503

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36503-5	SW846 8260C	28-JAN-15 18:45	GK			V8260SL+
MC36503-6 Collected: 19-JAN-15 15:10 By: DCDH Received: 20-JAN-15 By: SAP P59-ROX-011915						
MC36503-6	SW846 8270D BY SIM	23-JAN-15 14:08	MR	20-JAN-15	MD	B8270SIMSL
MC36503-6	SW846 8270D	26-JAN-15 15:45	KD	20-JAN-15	MD	AB8270SL+
MC36503-6	SW846 8011	27-JAN-15 05:24	NK	24-JAN-15	MT	V8011SL
MC36503-6	SW846 8260C	28-JAN-15 19:47	GK			V8260SL+
MC36503-7 Collected: 19-JAN-15 00:00 By: DCDH Received: 20-JAN-15 By: SAP TB-ROX-011915-HCL						
MC36503-7	SW846 8260C	28-JAN-15 12:46	GK			V8260SL+
MC36503-8 Collected: 19-JAN-15 00:00 By: DCDH Received: 20-JAN-15 By: SAP TB-ROX-011915-ST						
MC36503-8	SW846 8011	27-JAN-15 05:46	NK	24-JAN-15	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36503-1.2	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-1.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-1.3	VOC Ref #2	Gary Krasinski	01/28/15 13:12	Retrieve from Storage
MC36503-1.3	Gary Krasinski	GCMSL	01/28/15 13:12	Load on Instrument
MC36503-1.3	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-1.3	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-1.3	Scott Parsick		04/15/15 12:23	Disposed
MC36503-1.4	VOC Ref #2	Gary Krasinski	01/30/15 11:01	Retrieve from Storage
MC36503-1.4	Gary Krasinski	GCMSL	01/30/15 11:01	Load on Instrument
MC36503-1.4	GCMSL	Gary Krasinski	02/03/15 08:37	Unload from Instrument
MC36503-1.4	Gary Krasinski	VOC Ref #2	02/03/15 08:37	Return to Storage
MC36503-1.4	Scott Parsick		04/15/15 12:23	Disposed
MC36503-1.5	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-1.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-2.1	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-2.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-2.3	VOC Ref #2	Gary Krasinski	01/28/15 11:13	Retrieve from Storage
MC36503-2.3	Gary Krasinski	GCMSL	01/28/15 11:13	Load on Instrument
MC36503-2.3	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-2.3	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-2.3	Scott Parsick		04/15/15 12:23	Disposed
MC36503-2.6	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-2.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-3.1	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-3.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-3.3	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36503-3.3	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36503-3.3	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-3.3	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-3.3	Scott Parsick		04/15/15 12:23	Disposed
MC36503-3.4	VOC Ref #2	Gary Krasinski	01/30/15 11:01	Retrieve from Storage
MC36503-3.4	Gary Krasinski	GCMSL	01/30/15 11:01	Load on Instrument
MC36503-3.4	GCMSL	Gary Krasinski	02/03/15 08:37	Unload from Instrument
MC36503-3.4	Gary Krasinski	VOC Ref #2	02/03/15 08:37	Return to Storage
MC36503-3.4	Scott Parsick		04/15/15 12:23	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36503-3.5	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-3.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-4.1	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-4.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-4.4	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36503-4.4	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36503-4.4	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-4.4	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-4.4	Scott Parsick		04/15/15 12:23	Disposed
MC36503-4.5	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-4.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-5.2	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-5.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-5.3	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36503-5.3	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36503-5.3	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-5.3	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-5.3	Scott Parsick		04/15/15 12:23	Disposed
MC36503-5.5	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-5.5	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-6.1	Walk In Ref #22	Marc Tahtamoni	01/20/15 19:33	Retrieve from Storage
MC36503-6.1	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-6.3	VOC Ref #2	Gary Krasinski	01/28/15 13:26	Retrieve from Storage
MC36503-6.3	Gary Krasinski	GCMSL	01/28/15 13:26	Load on Instrument
MC36503-6.3	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-6.3	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage
MC36503-6.3	Scott Parsick		04/15/15 12:23	Disposed
MC36503-6.6	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-6.6	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36503-7.1	VOC Ref #2	Gary Krasinski	01/28/15 11:13	Retrieve from Storage
MC36503-7.1	Gary Krasinski	GCMSL	01/28/15 11:13	Load on Instrument
MC36503-7.1	GCMSL	Gary Krasinski	01/30/15 08:20	Unload from Instrument
MC36503-7.1	Gary Krasinski	VOC Ref #2	01/30/15 08:20	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/20/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36503-7.1	Scott Parsick		04/15/15 12:23	Disposed
MC36503-8.1	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36503-8.1	Marc Tahtamoni		02/12/15 20:37	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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-MB	L90492.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	67-134%
2037-26-5	Toluene-D8	97%	79-121%
460-00-4	4-Bromofluorobenzene	98%	71-133%

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

Method Blank Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4006-MB	L90531.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36503-1, MC36503-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	67-134%
2037-26-5	Toluene-D8	98%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	40.9	82	10-147
107-02-8	Acrolein	250	170	68	10-170
107-13-1	Acrylonitrile	50	43.1	86	51-154
71-43-2	Benzene	50	44.7	89	74-127
108-86-1	Bromobenzene	50	49.7	99	77-124
74-97-5	Bromochloromethane	50	48.5	97	76-128
75-27-4	Bromodichloromethane	50	55.1	110	68-156
75-25-2	Bromoform	50	55.1	110	70-134
74-83-9	Bromomethane	50	53.5	107	14-180
78-93-3	2-Butanone (MEK)	50	59.8	120	23-148
104-51-8	n-Butylbenzene	50	52.4	105	75-140
135-98-8	sec-Butylbenzene	50	49.2	98	74-139
98-06-6	tert-Butylbenzene	50	51.9	104	71-141
75-15-0	Carbon disulfide	50	37.0	74	45-156
56-23-5	Carbon tetrachloride	50	59.4	119	67-152
108-90-7	Chlorobenzene	50	48.1	96	76-121
75-00-3	Chloroethane	50	49.6	99	54-177
110-75-8	2-Chloroethyl vinyl ether	50	76.3	153	36-178
67-66-3	Chloroform	50	51.1	102	68-139
74-87-3	Chloromethane	50	50.7	101	33-171
95-49-8	o-Chlorotoluene	50	47.1	94	76-131
106-43-4	p-Chlorotoluene	50	48.2	96	76-130
124-48-1	Dibromochloromethane	50	53.9	108	82-130
95-50-1	1,2-Dichlorobenzene	50	48.1	96	81-127
541-73-1	1,3-Dichlorobenzene	50	46.6	93	80-124
106-46-7	1,4-Dichlorobenzene	50	47.0	94	78-124
75-71-8	Dichlorodifluoromethane	50	54.3	109	10-185
75-34-3	1,1-Dichloroethane	50	43.7	87	69-140
107-06-2	1,2-Dichloroethane	50	60.5	121	64-149
75-35-4	1,1-Dichloroethene	50	39.8	80	58-142
156-59-2	cis-1,2-Dichloroethene	50	46.2	92	68-129
156-60-5	trans-1,2-Dichloroethene	50	42.8	86	61-133
78-87-5	1,2-Dichloropropane	50	46.6	93	74-135
142-28-9	1,3-Dichloropropane	50	54.0	108	76-121
594-20-7	2,2-Dichloropropane	50	59.7	119	62-157
563-58-6	1,1-Dichloropropene	50	48.0	96	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	61.2	122	75-138
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	70-150
123-91-1	1,4-Dioxane	250	196	78	52-165
97-63-2	Ethyl methacrylate	50	52.4	105	62-138
100-41-4	Ethylbenzene	50	51.5	103	75-129
87-68-3	Hexachlorobutadiene	50	60.1	120	59-150
591-78-6	2-Hexanone	50	63.5	127	28-137
98-82-8	Isopropylbenzene	50	48.1	96	76-138
99-87-6	p-Isopropyltoluene	50	52.7	105	77-137
1634-04-4	Methyl Tert Butyl Ether	50	60.7	121	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.3	113	48-153
74-95-3	Methylene bromide	50	50.2	100	74-134
75-09-2	Methylene chloride	50	44.2	88	62-134
91-20-3	Naphthalene	50	46.0	92	32-196
103-65-1	n-Propylbenzene	50	46.7	93	74-138
100-42-5	Styrene	50	54.1	108	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	56.4	113	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	44.5	89	64-132
127-18-4	Tetrachloroethene	50	50.9	102	68-133
108-88-3	Toluene	50	50.0	100	75-134
87-61-6	1,2,3-Trichlorobenzene	50	55.6	111	51-169
120-82-1	1,2,4-Trichlorobenzene	50	55.0	110	62-146
71-55-6	1,1,1-Trichloroethane	50	56.0	112	66-152
79-00-5	1,1,2-Trichloroethane	50	49.5	99	70-138
79-01-6	Trichloroethene	50	49.6	99	70-131
75-69-4	Trichlorofluoromethane	50	60.7	121	43-168
96-18-4	1,2,3-Trichloropropane	50	47.8	96	61-134
95-63-6	1,2,4-Trimethylbenzene	50	48.7	97	76-133
108-67-8	1,3,5-Trimethylbenzene	50	49.5	99	72-131
108-05-4	Vinyl Acetate	50	100	200	10-200
75-01-4	Vinyl chloride	50	50.6	101	32-182
	m,p-Xylene	100	96.4	96	74-129
95-47-6	o-Xylene	50	48.8	98	77-127
1330-20-7	Xylene (total)	150	145	97	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4005-BS	L90489.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	93%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4006-BS	L90529.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36503-1, MC36503-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	42.3	85	74-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	94%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	MC36465-4 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	119	48	250	85.3	34	33* [a]	10-135/30
107-02-8	Acrolein	ND		1250	879	70	1250	870	70	1	10-165/30
107-13-1	Acrylonitrile	ND		250	224	90	250	206	82	8	43-165/30
71-43-2	Benzene	ND		250	213	85	250	242	97	13	69-136/30
108-86-1	Bromobenzene	ND		250	246	98	250	280	112	13	74-127/30
74-97-5	Bromochloromethane	ND		250	227	91	250	254	102	11	73-134/30
75-27-4	Bromodichloromethane	ND		250	232	93	250	263	105	13	63-163/30
75-25-2	Bromoform	ND		250	251	100	250	278	111	10	61-140/30
74-83-9	Bromomethane	ND		250	241	96	250	309	124	25	10-175/30
78-93-3	2-Butanone (MEK)	ND		250	178	71	250	181	72	2	19-130/30
104-51-8	n-Butylbenzene	ND		250	237	95	250	274	110	14	65-147/30
135-98-8	sec-Butylbenzene	ND		250	228	91	250	261	104	13	72-143/30
98-06-6	tert-Butylbenzene	0.53	J	250	228	91	250	265	106	15	66-146/30
75-15-0	Carbon disulfide	ND		250	203	81	250	244	98	18	33-170/30
56-23-5	Carbon tetrachloride	ND		250	233	93	250	275	110	17	61-163/30
108-90-7	Chlorobenzene	ND		250	231	92	250	260	104	12	73-127/30
75-00-3	Chloroethane	ND		250	275	110	250	302	121	9	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	273	109	250	254	102	7	10-200/30
67-66-3	Chloroform	ND		250	214	86	250	244	98	13	65-146/30
74-87-3	Chloromethane	ND		250	186	74	250	209	84	12	23-176/30
95-49-8	o-Chlorotoluene	ND		250	221	88	250	254	102	14	67-142/30
106-43-4	p-Chlorotoluene	ND		250	225	90	250	257	103	13	70-137/30
124-48-1	Dibromochloromethane	ND		250	254	102	250	282	113	10	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		250	221	88	250	257	103	15	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		250	219	88	250	253	101	14	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		250	214	86	250	255	102	17	75-126/30
75-71-8	Dichlorodifluoromethane	ND		250	205	82	250	240	96	16	10-184/30
75-34-3	1,1-Dichloroethane	ND		250	207	83	250	234	94	12	66-148/30
107-06-2	1,2-Dichloroethane	ND		250	241	96	250	272	109	12	59-157/30
75-35-4	1,1-Dichloroethene	ND		250	212	85	250	224	90	6	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		250	225	90	250	252	101	11	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		250	215	86	250	241	96	11	57-142/30
78-87-5	1,2-Dichloropropane	ND		250	218	87	250	252	101	14	70-142/30
142-28-9	1,3-Dichloropropane	ND		250	265	106	250	285	114	7	73-126/30
594-20-7	2,2-Dichloropropane	ND		250	251	100	250	293	117	15	45-168/30
563-58-6	1,1-Dichloropropene	ND		250	216	86	250	248	99	14	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Compound	MC36465-4 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	281	112	250	318	127	12	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	226	90	250	246	98	8	64-153/30
123-91-1	1,4-Dioxane	ND		1250	694	56	1250	437	35* [b]	45* [a]	38-165/30
97-63-2	Ethyl methacrylate	ND		250	238	95	250	258	103	8	54-149/30
100-41-4	Ethylbenzene	0.36	J	250	243	97	250	268	107	10	67-141/30
87-68-3	Hexachlorobutadiene	ND		250	259	104	250	307	123	17	52-152/30
591-78-6	2-Hexanone	ND		250	177	71	250	185	74	4	25-118/30
98-82-8	Isopropylbenzene	ND		250	231	92	250	262	105	13	71-144/30
99-87-6	p-Isopropyltoluene	ND		250	241	96	250	275	110	13	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	287	115	250	291	116	1	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	221	88	250	230	92	4	46-158/30
74-95-3	Methylene bromide	ND		250	228	91	250	246	98	8	70-141/30
75-09-2	Methylene chloride	ND		250	231	92	250	243	97	5	58-143/30
91-20-3	Naphthalene	ND		250	221	88	250	241	96	9	19-200/30
103-65-1	n-Propylbenzene	ND		250	226	90	250	254	102	12	67-145/30
100-42-5	Styrene	ND		250	250	100	250	279	112	11	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	261	104	250	294	118	12	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	225	90	250	241	96	7	61-137/30
127-18-4	Tetrachloroethene	ND		250	239	96	250	268	107	11	64-139/30
108-88-3	Toluene	0.42	J	250	221	88	250	254	101	14	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	254	102	250	294	118	15	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	252	101	250	305	122	19	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		250	225	90	250	258	103	14	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		250	232	93	250	259	104	11	65-145/30
79-01-6	Trichloroethene	ND		250	218	87	250	252	101	14	64-139/30
75-69-4	Trichlorofluoromethane	ND		250	243	97	250	277	111	13	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		250	241	96	250	247	99	2	53-137/30
95-63-6	1,2,4-Trimethylbenzene	0.32	J	250	222	89	250	261	104	16	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	228	91	250	263	105	14	68-135/30
108-05-4	Vinyl Acetate	ND		250	460	184	250	468	187	2	10-200/30
75-01-4	Vinyl chloride	ND		250	237	95	250	272	109	14	25-187/30
	m,p-Xylene	0.72	J	500	453	90	500	501	100	10	67-138/30
95-47-6	o-Xylene	ND		250	219	88	250	245	98	11	72-135/30
1330-20-7	Xylene (total)	1.0		750	671	89	750	747	99	11	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36465-4MS	L90503.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4MSD	L90504.D	5	01/28/15	GK	n/a	n/a	MSL4005
MC36465-4	L90497.D	1	01/28/15	GK	n/a	n/a	MSL4005

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-7

CAS No.	Surrogate Recoveries	MS	MSD	MC36465-4	Limits
1868-53-7	Dibromofluoromethane	96%	95%	108%	67-134%
2037-26-5	Toluene-D8	98%	98%	99%	79-121%
460-00-4	4-Bromofluorobenzene	94%	94%	104%	71-133%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.
(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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36545-19MS	L90542.D	5	01/30/15	GK	n/a	n/a	MSL4006
MC36545-19MSD	L90543.D	5	01/30/15	GK	n/a	n/a	MSL4006
MC36545-19	L90537.D	1	01/30/15	GK	n/a	n/a	MSL4006

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

MC36503-1, MC36503-3

CAS No.	Compound	MC36545-19 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	206	82	250	203	81	1	69-136/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36545-19	Limits
1868-53-7	Dibromofluoromethane	108%	107%	107%	67-134%
2037-26-5	Toluene-D8	97%	99%	97%	79-121%
460-00-4	4-Bromofluorobenzene	89%	91%	99%	71-133%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4005-CC4003	**Injection Date:**	01/28/15
Lab File ID:	L90488.D	**Injection Time:**	09:17
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	229484	8.10	331375	8.91	170093	12.11	186008	14.65	43556	5.85
Upper Limit [a]	458968	8.60	662750	9.41	340186	12.61	372016	15.15	87112	6.35
Lower Limit [b]	114742	7.60	165688	8.41	85047	11.61	93004	14.15	21778	5.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4005-BS	228704	8.10	324882	8.91	166877	12.11	181399	14.65	44019	5.85
MSL4005-MB	230056	8.10	334209	8.92	157361	12.11	153764	14.65	50776	5.91
ZZZZZZ	224671	8.10	317589	8.92	152873	12.11	142347	14.65	40726	5.92
ZZZZZZ	219708	8.11	319688	8.92	152346	12.11	144869	14.65	43821	5.92
MC36503-7	216392	8.10	308902	8.92	149036	12.11	138684	14.65	41732	5.92
MC36503-2	180908	8.10	265009	8.92	127588	12.11	127279	14.65	26495	5.90
MC36465-4	211714	8.10	301463	8.92	145075	12.11	136017	14.65	39104	5.93
MC36503-1	177264	8.10	279856	8.91	143864	12.11	152989	14.65	27924	5.91
ZZZZZZ	244632	8.10	347488	8.92	164247	12.11	161856	14.65	62232	5.90
ZZZZZZ	188861	8.10	271674	8.92	136539	12.11	149261	14.65	33009	5.89
ZZZZZZ	275838	8.10	383228	8.92	191389	12.11	198428	14.65	55705	5.90
MC36503-4	291880	8.10	414056	8.91	200753	12.11	208137	14.65	65323	5.88
MC36465-4MS	365111	8.10	520699	8.91	243602	12.10	242728	14.65	72809	5.85
MC36465-4MSD	301924	8.10	421436	8.91	202805	12.11	199092	14.65	45345	5.86
ZZZZZZ	316399	8.10	451599	8.91	219622	12.11	221557	14.65	68115	5.89
ZZZZZZ	355300	8.10	506433	8.91	238039	12.11	238529	14.65	45953	5.89
MC36503-5	355121	8.10	497450	8.91	228146	12.11	234750	14.65	85195	5.89
MC36503-3	278446	8.10	398052	8.91	184926	12.11	178777	14.65	32100	5.90
MC36503-6	280159	8.10	396684	8.91	186301	12.11	188600	14.65	69222	5.89
ZZZZZZ	236163	8.10	337631	8.92	156199	12.11	147220	14.65	27751	5.93
ZZZZZZ	221547	8.10	316509	8.92	148067	12.11	145595	14.65	48505	5.91

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSL4006-CC4003	**Injection Date:**	01/30/15
Lab File ID:	L90529.D	**Injection Time:**	10:09
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	216782	8.11	308834	8.92	163067	12.11	171305	14.65	30042	5.88
Upper Limit [a]	433564	8.61	617668	9.42	326134	12.61	342610	15.15	60084	6.38
Lower Limit [b]	108391	7.61	154417	8.42	81534	11.61	85653	14.15	15021	5.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4006-BS	216782	8.11	308834	8.92	163067	12.11	171305	14.65	30042	5.88
MSL4006-MB	210340	8.11	293712	8.92	138824	12.11	136906	14.65	42786	5.92
MC36503-1	205550	8.11	284372	8.92	139865	12.11	134678	14.65	41463	5.89
MC36503-3	189825	8.10	271725	8.92	128114	12.11	122638	14.65	35757	5.92
ZZZZZZ	200373	8.11	284864	8.92	137929	12.11	135655	14.65	45200	5.91
ZZZZZZ	193237	8.11	267302	8.92	132620	12.11	127007	14.65	42504	5.92
ZZZZZZ	186297	8.11	263141	8.92	128314	12.11	120448	14.65	35547	5.92
MC36545-19	182987	8.11	252771	8.92	124945	12.11	117351	14.65	33264	5.92
ZZZZZZ	178376	8.11	249461	8.92	123659	12.11	115533	14.65	33693	5.92
ZZZZZZ	174196	8.11	247410	8.92	120601	12.11	114707	14.65	35294	5.91
ZZZZZZ	171247	8.11	241546	8.92	116423	12.11	109110	14.65	35967	5.91
ZZZZZZ	172382	8.11	240054	8.92	116090	12.11	116466	14.65	34737	5.92
MC36545-19MS	164895	8.10	232219	8.91	124230	12.10	140981	14.65	33408	5.84
MC36545-19MSD	179034	8.11	251277	8.92	131241	12.10	148289	14.65	38209	5.86
ZZZZZZ	180510	8.11	278818	8.92	139685	12.11	156700	14.65	37842	5.89
ZZZZZZ	177928	8.10	250935	8.92	123008	12.11	124971	14.65	37507	5.90
ZZZZZZ	180106	8.11	253318	8.92	125937	12.11	130311	14.65	34251	5.91
ZZZZZZ	183648	8.10	265983	8.92	134394	12.11	156001	14.65	43921	5.88
ZZZZZZ	193946	8.11	279267	8.92	137699	12.11	160385	14.65	53852	5.88
ZZZZZZ	284508	8.11	403758	8.92	194985	12.11	194659	14.65	38670	5.94
ZZZZZZ	212720	8.10	310123	8.92	148930	12.11	164681	14.65	50308	5.90

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36503-1	L90532.D	106	96	99
MC36503-1	L90498.D	108	101	93
MC36503-2	L90496.D	109	99	97
MC36503-3	L90533.D	105	96	99
MC36503-3	L90508.D	102	98	96
MC36503-4	L90502.D	94	99	92
MC36503-5	L90507.D	97	98	96
MC36503-6	L90509.D	103	99	97
MC36503-7	L90495.D	104	99	103
MC36465-4MS	L90503.D	96	98	94
MC36465-4MSD	L90504.D	95	98	94
MC36545-19MS	L90542.D	108	97	89
MC36545-19MSD	L90543.D	107	99	91
MSL4005-BS	L90489.D	103	100	93
MSL4005-MB	L90492.D	105	97	98
MSL4006-BS	L90529.D	107	100	94
MSL4006-MB	L90531.D	108	98	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-134%
S2 = Toluene-D8	79-121%
S3 = 4-Bromofluorobenzene	71-133%

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-MB	F79494.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-MB	F79494.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	89%	30-130%
321-60-8	2-Fluorobiphenyl	87%	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	

Method Blank Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41742-MB	I93974.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.012	0.10	0.0075	ug/l	J
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	0.019	2.0	0.012	ug/l	J
91-57-6	2-Methylnaphthalene	0.021	2.0	0.011	ug/l	J
85-01-8	Phenanthrene	0.016	0.050	0.011	ug/l	J
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	76%	30-130%
1718-51-0	Terphenyl-d14	109%	30-130%

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-BS	F79495.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.5	37	10-67
95-57-8	2-Chlorophenol	50	36.5	73	47-99
59-50-7	4-Chloro-3-methyl phenol	50	42.5	85	51-112
120-83-2	2,4-Dichlorophenol	50	41.7	83	51-110
105-67-9	2,4-Dimethylphenol	50	30.4	61	31-108
51-28-5	2,4-Dinitrophenol	50	46.6	93	10-121
534-52-1	4,6-Dinitro-o-cresol	50	47.3	95	35-135
95-48-7	2-Methylphenol	50	32.6	65	20-112
	3&4-Methylphenol	100	64.1	64	19-102
88-75-5	2-Nitrophenol	50	42.1	84	50-109
100-02-7	4-Nitrophenol	50	27.9	56	10-95
87-86-5	Pentachlorophenol	50	44.0	88	28-117
108-95-2	Phenol	50	15.9	32	21-49
95-95-4	2,4,5-Trichlorophenol	50	43.9	88	56-112
88-06-2	2,4,6-Trichlorophenol	50	44.3	89	54-112
62-53-3	Aniline	50	33.5	67	30-81
101-55-3	4-Bromophenyl phenyl ether	50	53.9	108	56-125
85-68-7	Butyl benzyl phthalate	50	50.2	100	59-138
100-51-6	Benzyl Alcohol	50	37.9	76	19-101
91-58-7	2-Chloronaphthalene	50	51.2	102	54-110
106-47-8	4-Chloroaniline	50	44.9	90	47-99
111-91-1	bis(2-Chloroethoxy)methane	50	46.8	94	50-116
111-44-4	bis(2-Chloroethyl)ether	50	41.9	84	45-123
108-60-1	bis(2-Chloroisopropyl)ether	50	51.4	103	28-160
7005-72-3	4-Chlorophenyl phenyl ether	50	50.7	101	57-117
122-66-7	1,2-Diphenylhydrazine	50	45.0	90	60-120
121-14-2	2,4-Dinitrotoluene	50	46.2	92	62-121
606-20-2	2,6-Dinitrotoluene	50	47.3	95	61-115
91-94-1	3,3'-Dichlorobenzidine	50	46.5	93	49-137
132-64-9	Dibenzofuran	50	51.9	104	56-105
84-74-2	Di-n-butyl phthalate	50	50.7	101	63-119
117-84-0	Di-n-octyl phthalate	50	48.8	98	52-160
84-66-2	Diethyl phthalate	50	46.4	93	44-127
131-11-3	Dimethyl phthalate	50	46.9	94	10-138
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.0	102	63-145
118-74-1	Hexachlorobenzene	50	50.9	102	49-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-BS	F79495.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	29.6	59	10-89
67-72-1	Hexachloroethane	50	41.3	83	22-86
78-59-1	Isophorone	50	42.7	85	52-115
88-74-4	2-Nitroaniline	50	52.1	104	59-118
99-09-2	3-Nitroaniline	50	50.0	100	57-110
100-01-6	4-Nitroaniline	50	53.1	106	54-118
98-95-3	Nitrobenzene	50	38.1	76	50-117
62-75-9	n-Nitrosodimethylamine	50	23.8	48	15-83
621-64-7	N-Nitroso-di-n-propylamine	50	48.3	97	47-131
86-30-6	N-Nitrosodiphenylamine	50	44.1	88	59-109
110-86-1	Pyridine	50	19.0	38	19-69

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	46%	10-73%
4165-62-2	Phenol-d5	33%	10-58%
118-79-6	2,4,6-Tribromophenol	102%	15-125%
4165-60-0	Nitrobenzene-d5	87%	23-120%
321-60-8	2-Fluorobiphenyl	90%	31-102%
1718-51-0	Terphenyl-d14	101%	42-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41742-BS	I93975.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	42.3	85	45-120
208-96-8	Acenaphthylene	50	43.8	88	31-120
120-12-7	Anthracene	50	43.3	87	51-120
56-55-3	Benzo(a)anthracene	50	50.3	101	46-139
50-32-8	Benzo(a)pyrene	50	50.1	100	39-125
205-99-2	Benzo(b)fluoranthene	50	46.8	94	41-137
191-24-2	Benzo(g,h,i)perylene	50	49.3	99	47-132
207-08-9	Benzo(k)fluoranthene	50	46.9	94	46-131
218-01-9	Chrysene	50	46.4	93	43-129
53-70-3	Dibenzo(a,h)anthracene	50	48.4	97	42-138
206-44-0	Fluoranthene	50	47.0	94	47-134
86-73-7	Fluorene	50	43.5	87	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	49.5	99	41-137
90-12-0	1-Methylnaphthalene	50	38.9	78	39-120
91-57-6	2-Methylnaphthalene	50	39.8	80	22-126
85-01-8	Phenanthrene	50	41.5	83	51-120
129-00-0	Pyrene	50	48.1	96	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	80%	30-130%
1718-51-0	Terphenyl-d14	105%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-MS	F79496.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
OP41741-MSD	F79497.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
MC36400-17	F79498.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	MC36400-17 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		50	19.0	38	50	20.2	40	6	30-130/20
95-57-8	2-Chlorophenol	ND		50	36.0	72	50	39.3	79	9	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	40.9	82	50	43.7	87	7	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	40.7	81	50	42.8	86	5	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	34.6	69	50	36.3	73	5	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	44.6	89	50	48.6	97	9	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	47.2	94	50	50.6	101	7	30-130/20
95-48-7	2-Methylphenol	ND		50	32.4	65	50	34.9	70	7	30-130/20
	3&4-Methylphenol	ND		100	63.8	64	100	67.5	68	6	30-130/20
88-75-5	2-Nitrophenol	ND		50	40.0	80	50	43.3	87	8	30-130/20
100-02-7	4-Nitrophenol	ND		50	28.3	57	50	31.7	63	11	30-130/20
87-86-5	Pentachlorophenol	ND		50	44.0	88	50	45.1	90	2	30-130/20
108-95-2	Phenol	ND		50	16.0	32	50	17.0	34	6	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	45.7	91	50	50.6	101	10	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	44.7	89	50	50.7	101	13	30-130/20
62-53-3	Aniline	ND		50	32.5	65	50	35.4	71	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	49.9	100	50	50.9	102	2	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	51.4	103	50	53.9	108	5	40-140/20
100-51-6	Benzyl Alcohol	ND		50	36.2	72	50	38.0	76	5	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	51.5	103	50	57.5	115	11	40-140/20
106-47-8	4-Chloroaniline	ND		50	44.5	89	50	47.8	96	7	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	46.6	93	50	50.6	101	8	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	41.2	82	50	44.5	89	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	49.6	99	50	54.9	110	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	49.2	98	50	51.6	103	5	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	46.7	93	50	47.5	95	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	51.0	102	50	53.4	107	5	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	50.2	100	50	54.5	109	8	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	49.6	99	50	52.6	105	6	40-140/20
132-64-9	Dibenzofuran	ND		50	52.7	105	50	52.3	105	1	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	52.2	104	50	54.2	108	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	50.8	102	50	56.0	112	10	40-140/20
84-66-2	Diethyl phthalate	ND		50	50.4	101	50	51.0	102	1	40-140/20
131-11-3	Dimethyl phthalate	ND		50	48.2	96	50	51.4	103	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	53.6	107	50	56.0	112	4	40-140/20
118-74-1	Hexachlorobenzene	ND		50	52.3	105	50	53.7	107	3	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41741-MS	F79496.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
OP41741-MSD	F79497.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459
MC36400-17	F79498.D	1	01/23/15	KD	01/20/15	OP41741	MSF3459

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	MC36400-17 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	31.3	63	50	35.4	71	12	40-140/20
67-72-1	Hexachloroethane	ND		50	35.0	70	50	37.9	76	8	40-140/20
78-59-1	Isophorone	ND		50	42.6	85	50	44.8	90	5	40-140/20
88-74-4	2-Nitroaniline	ND		50	57.6	115	50	57.8	116	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	51.2	102	50	54.6	109	6	40-140/20
100-01-6	4-Nitroaniline	ND		50	52.6	105	50	55.6	111	6	40-140/20
98-95-3	Nitrobenzene	ND		50	28.5	57	50	30.0	60	5	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	22.7	45	50	22.8	46	0	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	48.1	96	50	45.3	91	6	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	45.7	91	50	47.4	95	4	40-140/20
110-86-1	Pyridine	ND		50	18.7	37* [a]	50	18.9	38* [a]	1	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-17	Limits
367-12-4	2-Fluorophenol	45%	51%	44%	10-73%
4165-62-2	Phenol-d5	32%	35%	30%	10-58%
118-79-6	2,4,6-Tribromophenol	97%	104%	94%	15-125%
4165-60-0	Nitrobenzene-d5	82%	86%	79%	23-120%
321-60-8	2-Fluorobiphenyl	83%	95%	77%	31-102%
1718-51-0	Terphenyl-d14	104%	108%	97%	42-124%

(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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41742-MS	I93976.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
OP41742-MSD	I93977.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506
MC36400-18	I93978.D	1	01/23/15	MR	01/20/15	OP41742	MSI3506

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6

CAS No.	Compound	MC36400-18 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	42.9	86	50	45.1	90	5	41-120/20
208-96-8	Acenaphthylene	ND		50	45.0	90	50	47.4	95	5	30-120/20
120-12-7	Anthracene	ND		50	44.3	89	50	46.3	93	4	47-120/20
56-55-3	Benzo(a)anthracene	ND		50	51.8	104	50	54.3	109	5	36-139/20
50-32-8	Benzo(a)pyrene	ND		50	51.9	104	50	54.0	108	4	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		50	51.7	103	50	54.1	108	5	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		50	50.9	102	50	53.5	107	5	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		50	43.5	87	50	45.5	91	4	34-133/20
218-01-9	Chrysene	ND		50	47.5	95	50	49.7	99	5	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	49.7	99	50	51.8	104	4	29-140/20
206-44-0	Fluoranthene	ND		50	48.2	96	50	50.0	100	4	42-132/20
86-73-7	Fluorene	ND		50	44.0	88	50	46.0	92	4	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	51.0	102	50	53.3	107	4	28-139/20
90-12-0	1-Methylnaphthalene	0.022	JB	50	39.0	78	50	40.9	82	5	33-120/20
91-57-6	2-Methylnaphthalene	0.026	JB	50	40.1	80	50	42.5	85	6	20-125/20
85-01-8	Phenanthrene	ND		50	42.5	85	50	44.4	89	4	47-120/20
129-00-0	Pyrene	ND		50	49.3	99	50	51.3	103	4	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36400-18	Limits
4165-60-0	Nitrobenzene-d5	78%	83%	77%	30-130%
321-60-8	2-Fluorobiphenyl	73%	78%	68%	30-130%
1718-51-0	Terphenyl-d14	106%	110%	101%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3459-CC3446	**Injection Date:**	01/23/15
Lab File ID:	F79491.D	**Injection Time:**	10:43
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	35611	1.81	124549	2.84	71848	4.28	129269	5.47	151760	7.64	150970	8.72
Upper Limit [a]	71222	2.31	249098	3.34	143696	4.78	258538	5.97	303520	8.14	301940	9.22
Lower Limit [b]	17806	1.31	62275	2.34	35924	3.78	64635	4.97	75880	7.14	75485	8.22

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
ZZZZZZ	33279	1.80	115303	2.83	67710	4.28	126326	5.46	140598	7.63	143091	8.72
ZZZZZZ	33279	1.80	115303	2.83	67710	4.28	126326	5.46	140598	7.63	143091	8.72
ZZZZZZ	32663	1.80	114862	2.84	70126	4.28	124764	5.46	144673	7.63	144935	8.72
ZZZZZZ	32663	1.80	114862	2.84	70126	4.28	124764	5.46	144673	7.63	144935	8.72
OP41741-MB	33271	1.81	116911	2.84	71070	4.28	133161	5.46	149627	7.63	149187	8.72
OP41741-BS	33175	1.81	118904	2.84	68936	4.28	122227	5.46	149117	7.64	153588	8.73
OP41741-MS	34514	1.81	123904	2.84	70133	4.28	126421	5.46	153417	7.64	158134	8.73
OP41741-MSD	38592	1.81	140320	2.84	75017	4.28	140025	5.46	168687	7.65	170193	8.73
MC36400-17	33500	1.80	116097	2.84	70638	4.28	133083	5.46	150763	7.63	152892	8.72
ZZZZZZ	28728	1.80	101173	2.84	61854	4.28	115039	5.46	132457	7.63	133264	8.72
ZZZZZZ	34586	1.80	121303	2.84	73868	4.28	139077	5.46	160214	7.63	159904	8.72
ZZZZZZ	34110	1.80	121764	2.84	71941	4.28	131511	5.46	148528	7.63	146727	8.72
ZZZZZZ	32629	1.80	114307	2.84	70520	4.28	127577	5.46	144800	7.63	143992	8.72
ZZZZZZ	34816	1.80	123176	2.83	73687	4.28	134601	5.46	154984	7.63	151525	8.72
MC36503-1	33089	1.80	118140	2.84	71465	4.28	115218	5.46	146326	7.63	150207	8.72
MC36503-2	30887	1.80	108166	2.84	64447	4.28	121983	5.46	141286	7.63	140057	8.72
MC36503-3	29386	1.80	103886	2.84	62259	4.27	116381	5.46	129301	7.63	135823	8.72
MC36503-4	37518	1.81	133941	2.84	81930	4.28	127786	5.46	161074	7.63	168901	8.72
MC36503-5	30822	1.81	108976	2.84	66694	4.28	112901	5.46	136659	7.63	143932	8.72
OP41757-MB	42591	1.81	154304	2.83	92599	4.28	167732	5.46	186211	7.64	186084	8.72
OP41757-BS	48558	1.82	171687	2.84	97482	4.28	175697	5.47	201626	7.65	200717	8.73
OP41757-BSD	41569	1.81	145541	2.84	82754	4.28	149619	5.46	173124	7.64	176472	8.73
ZZZZZZ	39665	1.81	138276	2.84	82836	4.28	147106	5.46	167812	7.64	165531	8.72
ZZZZZZ	48740	1.84	171677	2.85	102044	4.28	172028	5.46	201370	7.65	199924	8.73
ZZZZZZ	41740	1.81	146678	2.84	86748	4.28	156802	5.46	172894	7.63	169236	8.72
ZZZZZZ	45197	1.81	156978	2.84	94281	4.27	169874	5.46	185695	7.64	182789	8.72
ZZZZZZ	49016	1.81	173645	2.84	102200	4.28	185345	5.46	203359	7.64	195440	8.73
ZZZZZZ	44689	1.81	158022	2.84	92933	4.28	168902	5.46	185831	7.64	183799	8.72

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3459-CC3446	**Injection Date:**	01/23/15
Lab File ID:	F79491.D	**Injection Time:**	10:43
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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

(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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3460-CC3446	**Injection Date:**	01/26/15
Lab File ID:	F79522.D	**Injection Time:**	08:14
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	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	47406	1.82	162968	2.85	91711	4.28	161406	5.47	180328	7.65	175871	8.73
Upper Limit [a]	94812	2.32	325936	3.35	183422	4.78	322812	5.97	360656	8.15	351742	9.23
Lower Limit [b]	23703	1.32	81484	2.35	45856	3.78	80703	4.97	90164	7.15	87936	8.23

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
OP41786-MB	47653	1.81	167275	2.84	98941	4.28	178913	5.46	196427	7.64	190261	8.72
OP41786-BS	46914	1.81	169351	2.84	98264	4.28	176659	5.47	194560	7.65	190973	8.73
OP41786-BSD	56080	1.81	195804	2.84	111079	4.28	198375	5.47	208636	7.65	203211	8.73
ZZZZZZ	45345	1.81	157744	2.84	96637	4.28	172676	5.46	193468	7.64	192797	8.73
ZZZZZZ	42692	1.81	153281	2.84	91673	4.27	170249	5.46	193383	7.64	186294	8.72
OP41786-MS	49216	1.81	173422	2.84	96879	4.28	176048	5.47	193556	7.65	193834	8.73
OP41786-MSD	47766	1.81	167732	2.84	97780	4.28	173978	5.47	189074	7.64	188687	8.73
MC36600-7	53369	1.81	186743	2.84	112221	4.28	210070	5.46	225878	7.64	220881	8.72
ZZZZZZ	46527	1.81	165243	2.84	100785	4.28	158950	5.46	197116	7.65	201960	8.74
ZZZZZZ	50239	1.81	175058	2.84	100037	4.28	179531	5.46	186639	7.64	182688	8.72
ZZZZZZ	50239	1.81	175058	2.84	100037	4.28	179531	5.46	186639	7.64	182688	8.72
ZZZZZZ	39735	1.81	138712	2.84	82130	4.28	154881	5.46	179175	7.63	183807	8.72
ZZZZZZ	39735	1.81	138712	2.84	82130	4.28	154881	5.46	179175	7.63	183807	8.72
ZZZZZZ	47753	1.81	170400	2.84	102765	4.28	184534	5.46	199396	7.64	201311	8.73
ZZZZZZ	48391	1.81	174771	2.84	106574	4.28	190379	5.46	208712	7.64	206030	8.72
ZZZZZZ	49379	1.81	175307	2.84	104906	4.28	183058	5.46	201609	7.64	199216	8.73
ZZZZZZ	45962	1.81	163270	2.84	99008	4.28	178557	5.46	191373	7.64	190968	8.73
ZZZZZZ	43848	1.81	153384	2.84	91125	4.28	167904	5.46	180754	7.63	172233	8.72
ZZZZZZ	48366	1.81	168027	2.84	101868	4.28	183167	5.46	203473	7.63	192764	8.72
MC36503-6	52286	1.82	180702	2.85	98697	4.30	185400	5.49	219304	7.65	226803	8.74
ZZZZZZ	55113	1.82	192873	2.84	111382	4.28	198788	5.46	203145	7.64	191591	8.73
OP41760-MB	41508	1.81	146689	2.84	86686	4.28	158510	5.46	173276	7.63	168621	8.72
OP41760-BS	41630	1.81	143718	2.84	82356	4.28	146957	5.46	162815	7.64	161975	8.73
OP41760-MS	46674	1.81	163318	2.84	93590	4.28	168469	5.47	182394	7.65	188501	8.73
OP41760-MSD	45611	1.81	158143	2.84	92119	4.28	165205	5.47	184279	7.65	186434	8.73
MC36600-1	43893	1.81	152154	2.84	90523	4.28	159406	5.46	178108	7.63	170684	8.72
ZZZZZZ	41242	1.81	140507	2.84	84669	4.28	154437	5.46	169771	7.64	168244	8.72

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSF3460-CC3446	**Injection Date:**	01/26/15
Lab File ID:	F79522.D	**Injection Time:**	08:14
Instrument ID:	GCMSF	**Method:**	SW846 8270D

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

(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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3506-CC3483	**Injection Date:**	01/23/15
Lab File ID:	I93973.D	**Injection Time:**	07:45
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	258475	3.65	516259	4.69	301937	6.21	527062	7.53	387466	10.30	969160	11.73
Upper Limit [a]	516950	4.15	1032518	5.19	603874	6.71	1054124	8.03	774932	10.80	1938320	12.23
Lower Limit [b]	129238	3.15	258130	4.19	150969	5.71	263531	7.03	193733	9.80	484580	11.23

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
OP41742-MB	248961	3.65	502494	4.69	288645	6.21	506329	7.53	360527	10.30	892961	11.73
OP41742-BS	260660	3.65	532457	4.70	294416	6.21	535765	7.54	380936	10.30	934479	11.74
OP41742-MS	274906	3.66	558540	4.70	313741	6.21	568411	7.54	407071	10.30	997578	11.74
OP41742-MSD	257829	3.66	532146	4.70	296539	6.21	539149	7.54	388194	10.30	953408	11.74
MC36400-18	276366	3.65	552388	4.69	323120	6.21	563552	7.53	405465	10.30	1009744	11.73
ZZZZZZ	251379	3.65	507126	4.69	292354	6.21	505548	7.53	364426	10.30	913167	11.73
ZZZZZZ	258556	3.65	525242	4.69	304674	6.21	533088	7.53	384035	10.30	932986	11.73
ZZZZZZ	262826	3.65	529621	4.69	305621	6.21	532060	7.53	388447	10.30	974065	11.73
ZZZZZZ	276397	3.65	549408	4.69	316567	6.21	553833	7.53	405424	10.30	1011167	11.74
ZZZZZZ	275027	3.65	550065	4.69	315081	6.21	558908	7.53	404304	10.30	1005722	11.73
MC36503-1	253292	3.65	492685	4.69	287937	6.21	510558	7.53	375761	10.30	929080	11.73
MC36503-2	263226	3.65	530279	4.69	307555	6.21	536543	7.53	398494	10.30	985754	11.74
MC36503-3	233199	3.65	467422	4.69	270101	6.21	474580	7.53	351519	10.30	890206	11.74
MC36503-4	262777	3.65	535110	4.69	310626	6.21	549172	7.53	401907	10.30	1016239	11.74
MC36503-5	248920	3.66	488966	4.70	286045	6.21	497749	7.53	362591	10.30	919699	11.74
MC36503-6	257074	3.66	520544	4.70	295134	6.22	541479	7.54	400715	10.31	1004689	11.74
OP41776-MB	273452	3.66	553432	4.69	319993	6.21	559618	7.53	398536	10.30	976426	11.74
OP41776-BS	273974	3.66	564814	4.70	316703	6.21	577012	7.54	402431	10.31	955881	11.74
OP41776-MS	263484	3.66	546635	4.70	299917	6.21	540101	7.54	394306	10.31	947154	11.74
OP41776-MSD	268785	3.66	551062	4.70	311156	6.21	549126	7.54	388854	10.31	918522	11.74
MC36526-2	264650	3.66	533905	4.69	306525	6.21	527954	7.53	377673	10.30	916302	11.74
ZZZZZZ	236584	3.65	449465	4.69	269649	6.21	474501	7.54	351109	10.31	860542	11.74
ZZZZZZ	234693	3.65	451766	4.69	271744	6.21	478880	7.54	354258	10.31	866765	11.75

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36503-1	F79504.D	45	31	101	84	87	103
MC36503-2	F79505.D	42	30	97	84	86	105
MC36503-3	F79506.D	48	33	108	89	93	106
MC36503-4	F79507.D	44	31	105	82	86	103
MC36503-5	F79508.D	47	32	116	84	88	105
MC36503-6	F79541.D	43	10	101	64	76	100
OP41741-BS	F79495.D	46	33	102	87	90	101
OP41741-MB	F79494.D	47	33	97	89	87	106
OP41741-MS	F79496.D	45	32	97	82	83	104
OP41741-MSD	F79497.D	51	35	104	86	95	108

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-73%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	15-125%
S4 = Nitrobenzene-d5	23-120%
S5 = 2-Fluorobiphenyl	31-102%
S6 = Terphenyl-d14	42-124%

Semivolatile Surrogate Recovery Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36503-1	I93984.D	83	76	107
MC36503-2	I93985.D	80	75	108
MC36503-3	I93986.D	85	82	114
MC36503-4	I93987.D	78	75	110
MC36503-5	I93988.D	81	77	110
MC36503-6	I93989.D	76	68	102
OP41742-BS	I93975.D	80	80	105
OP41742-MB	I93974.D	81	76	109
OP41742-MS	I93976.D	78	73	106
OP41742-MSD	I93977.D	83	78	110

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-MB	BB61585.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-8

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	129%	60-140%
460-00-4	Bromofluorobenzene (S)	132%	60-140%

Blank Spike Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-BS	BB61586.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.10	141	45-149
106-93-4	1,2-Dibromoethane	0.071	0.082	115	51-149

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	124%	60-140%
460-00-4	Bromofluorobenzene (S)	132%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-MS	BB61587.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
OP41806-MSD	BB61588.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
MC36600-6	BB61589.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36503-1, MC36503-2, MC36503-3, MC36503-4, MC36503-5, MC36503-6, MC36503-8

CAS No.	Compound	MC36600-6 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	0.094	132	0.071	0.11	155	16	31-169/30
106-93-4	1,2-Dibromoethane	ND		0.071	0.081	114	0.071	0.092	130	13	34-175/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-6	Limits
460-00-4	Bromofluorobenzene (S)	136%	143%* [a]	131%	60-140%
460-00-4	Bromofluorobenzene (S)	145%* [a]	150%* [a]	147%* [b]	60-140%

(a) Outside control limits due to possible matrix interference.
(b) Outside control limits.Sample non-detect for targets analyte.

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36503-1	BB61590.D	118	139
MC36503-2	BB61591.D	117	130
MC36503-3	BB61592.D	89	101
MC36503-4	BB61593.D	103	143* [c]
MC36503-5	BB61594.D	114	146* [c]
MC36503-6	BB61596.D	137	141* [c]
MC36503-8	BB61597.D	124	136
OP41806-BS	BB61586.D	124	132
OP41806-MB	BB61585.D	129	132
OP41806-MS	BB61587.D	136	145* [d]
OP41806-MSD	BB61588.D	143* [d]	150* [d]

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	60-140%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1
(c) Outside control limits.Sample non-detect for targets analyte.
(d) Outside control limits due to possible matrix interference.

GC Surrogate Retention Time Summary

Job Number: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3383-CC3383	**Injection Date:**	01/27/15
Lab File ID:	BB61584A.D	**Injection Time:**	00:47
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBB3382-ECC3382	BB61584.D	01/27/15	00:47	4.81	4.93
OP41806-MB	BB61585.D	01/27/15	01:11	4.81	4.93
OP41806-BS	BB61586.D	01/27/15	01:34	4.81	4.93
OP41806-MS	BB61587.D	01/27/15	01:57	4.81	4.93
OP41806-MSD	BB61588.D	01/27/15	02:21	4.81	4.93
MC36600-6	BB61589.D	01/27/15	02:44	4.81	4.93
MC36503-1	BB61590.D	01/27/15	03:06	4.81	4.93
MC36503-2	BB61591.D	01/27/15	03:29	4.81	4.93
MC36503-3	BB61592.D	01/27/15	03:53	4.81	4.93
MC36503-4	BB61593.D	01/27/15	04:15	4.81	4.93
MC36503-5	BB61594.D	01/27/15	04:38	4.81	4.93

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: MC36503
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBB3383-CC3383	**Injection Date:**	01/27/15
Lab File ID:	BB61595.D	**Injection Time:**	05:01
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC36503-6	BB61596.D	01/27/15	05:24	4.81	4.93
MC36503-8	BB61597.D	01/27/15	05:46	4.81	4.93
ZZZZZZ	BB61598.D	01/27/15	06:09	4.81	4.93
ZZZZZZ	BB61599.D	01/27/15	06:32	4.81	4.93
ZZZZZZ	BB61600.D	01/27/15	06:55	4.81	4.93
ZZZZZZ	BB61601.D	01/27/15	07:17	4.81	4.93
ZZZZZZ	BB61602.D	01/27/15	07:40	4.81	4.93
GBB3383-ECC338	BB61603.D	01/27/15	08:03	4.81	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:21563720.03200 BP Well

21563720.03200

SGS Accutest Job Number: MC36526



Sampling Dates: 01/19/15 - 01/20/15

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 141

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

October 28, 2016

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

RE: SGS Accutest Job # MC36526

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: MC36526

URSMOSTL:21563720.03200 BP Well
Project No: 21563720.03200

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36526-1	01/19/15	16:00		01/21/15	SO	Soil	MW23-ROX-011915 (4-6')
MC36526-2	01/20/15	13:30		01/21/15	SO	Soil	MW23-ROX-012015 (32-36')
MC36526-2D	01/20/15	13:30		01/21/15	SO	Soil Dup/MSD	MW23-ROX-012015 (32-36')
MC36526-2S	01/20/15	13:30		01/21/15	SO	Soil Matrix Spike	MW23-ROX-012015 (32-36')
MC36526-3	01/20/15	16:00		01/21/15	SO	Soil	MW23-ROX-012015 (4-6') DUP
MC36526-4	01/20/15	12:30		01/21/15	AQ	Equipment Blank	EQB-ROX-012015 (MW-23)
MC36526-5	01/20/15	00:00		01/21/15	AQ	Trip Blank Water	TB-ROX-012015 (MW-23)
MC36526-6	01/20/15	00:00		01/21/15	AQ	Trip Blank Water	TB-ROX-012015 (MW-23)
MC36526-7	01/19/15	16:00		01/21/15	SO	Soil	MW23-ROX-011915 (4-6') DUP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36526

Site: URSMOSTL:2 563720 03200 BP We **Report Date** 0/28/20 6 3:26:32 P

4 Samp e(s), Tr p B ank(s) were co ected on between 0 / 9/20 5 and 0 /20/20 5 and were rece ved at SGS Accutest New Eng and on 0 /2 /20 5 proper y preserved, at 0 5 Deg C and ntact These Samp es rece ved a job number of MC36526 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 8260C

Matrix: AQ **Batch ID:** MSN3489

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36550-2MS 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
- MC36550-2MSD were used as the QC samples indicated.

- ,4-D oxane: 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
- Ch oromethane: 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
- Acry on tr e: 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
- Acro e n: 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
- 4-Methy -2-pentanone (MIBK): 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

Matrix: SO **Batch ID:** MSG5379

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36554-4MS, MC36554-4MSD 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: SO **Batch ID:** MSG5383

- 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) MC36526-2MS, MC36526-2MSD were used as the QC samp es nd cated
- RPD of MSG5383-BSD for 2-Ch oroethy v ny ether: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Matrix: SO **Batch ID:** MSM2540

- 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) MC36526-2MS, MC36526-2MSD were used as the QC samp es nd cated
- Ethy methacry ate: CCV outs de cr ter a Samp e resu ts may be ow b ased
- 4-Methy -2-pentanone (MIBK): CCV outs de cr ter a Samp e resu ts may be ow b ased
- 2,2-D ch oropropane: CCV outs de cr ter a Samp e resu ts may be ow b ased
- ,4-D oxane: CCV outs de cr ter a Samp e resu ts may be ow b ased
- RPD of MSM2540-BSD for Acro e n: Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 769

- 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) MC36600-2MS, MC36600-2MSD 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
- Matr x Sp ke Recovery(s) for Pheno , 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 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

Matrix: SO **Batch ID:** OP4 775

- 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) MC36526-2MS, MC36526-2MSD 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
- OP4 775-MS/MSD Recovery(s) for 2,4-D n tropheno , Benzo c ac d are outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference Refer to B ank Sp ke
- MC36526- : E evated RL due to d ut on requ red for matr x nterference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 770

- 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) MC36600-3MS, MC36600-3MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job

Matrix: SO **Batch ID:** OP4 776

- 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) MC36526-2MS, MC36526-2MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 806

- 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) MC36600-6MS, MC36600-6MSD were used as the QC samp es nd cated
- OP4 806-MS/MSD for Bromof uorobenzene (S): Outs de contro m ts due to poss b e matr x nterference

Matrix: SO **Batch ID:** OP4 785

- 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) MC36526-2MS, MC36526-2MSD 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

Volatiles by GC By Method SW846 8015

Matrix: AQ	Batch ID: GAB4735

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36580- MS, MC36580- 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
- Ca brat on check standard GAB4735-CC4654, f e AB87860 ut zed the same f e as GAB4734-CC4654, f e AB87860 does

Matrix: SO	Batch ID: GAB4734

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36526-2MS, MC36526-2MSD 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

Wet Chemistry By Method SM 2540G-97 MOD

Matrix: SO	Batch ID: GN49746

- Samp e(s) MC36526-2DUP were used as the QC samp es for So ds, Percent

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(MC36526)

Summary of Hits

Job Number: MC36526
Account: Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Collected: 01/19/15 thru 01/20/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36526-1	MW23-ROX-011915 (4-6')					
Acetone		0.0493	0.016	0.0044	mg/kg	SW846 8260C
n-Butylbenzene		0.0040 J	0.0079	0.00038	mg/kg	SW846 8260C
sec-Butylbenzene		0.0020 J	0.0079	0.0012	mg/kg	SW846 8260C
Carbon disulfide		0.0053 J	0.0079	0.00021	mg/kg	SW846 8260C
Ethylbenzene		0.0025 J	0.0032	0.0011	mg/kg	SW846 8260C
Isopropylbenzene		0.0022 J	0.0079	0.00026	mg/kg	SW846 8260C
p-Isopropyltoluene		0.0035 J	0.0079	0.00027	mg/kg	SW846 8260C
Naphthalene		0.0081	0.0079	0.00062	mg/kg	SW846 8260C
n-Propylbenzene		0.0023 J	0.0079	0.00024	mg/kg	SW846 8260C
Toluene		0.00046 J	0.0079	0.00032	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		0.0165	0.0079	0.0023	mg/kg	SW846 8260C
1,3,5-Trimethylbenzene		0.0039 J	0.0079	0.0024	mg/kg	SW846 8260C
m,p-Xylene		0.0028 J	0.0032	0.00069	mg/kg	SW846 8260C
o-Xylene		0.0069	0.0032	0.00045	mg/kg	SW846 8260C
Xylene (total)		0.0097	0.0032	0.00035	mg/kg	SW846 8260C
Dibenzofuran [a]		0.844	0.70	0.097	mg/kg	SW846 8270D
Acenaphthene		0.522	0.035	0.0061	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.211	0.035	0.0053	mg/kg	SW846 8270D BY SIM
Anthracene		1.08	0.035	0.0077	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.630	0.035	0.016	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.327	0.035	0.014	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.227	0.035	0.016	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.336	0.035	0.0095	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0663	0.035	0.011	mg/kg	SW846 8270D BY SIM
Chrysene		1.13	0.035	0.0095	mg/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.147	0.035	0.010	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.388	0.035	0.010	mg/kg	SW846 8270D BY SIM
Fluorene		2.12	0.035	0.0069	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.121	0.035	0.0087	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		4.18	0.70	0.18	mg/kg	SW846 8270D BY SIM
2-Methylnaphthalene		2.87	0.70	0.18	mg/kg	SW846 8270D BY SIM
Phenanthrene		12.7	0.035	0.0073	mg/kg	SW846 8270D BY SIM
Pyrene		2.72	0.035	0.011	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		18.7	16	2.3	mg/kg	SW846 8015
MC36526-2	MW23-ROX-012015 (32-36')					
n-Butylbenzene		0.00036 J	0.0045	0.00022	mg/kg	SW846 8260C
Carbon disulfide		0.00060 J	0.0045	0.00012	mg/kg	SW846 8260C
p-Isopropyltoluene		0.00035 J	0.0045	0.00016	mg/kg	SW846 8260C
Naphthalene		0.00098 J	0.0045	0.00036	mg/kg	SW846 8260C
Toluene		0.00046 J	0.0045	0.00019	mg/kg	SW846 8260C
o-Xylene		0.00030 J	0.0018	0.00026	mg/kg	SW846 8260C

Summary of Hits

Job Number: MC36526
Account: Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Collected: 01/19/15 thru 01/20/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		0.00030 J	0.0018	0.00020	mg/kg	SW846 8260C
Acenaphthene		0.0051 J	0.0058	0.0010	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.0059	0.0058	0.00089	mg/kg	SW846 8270D BY SIM
Anthracene		0.0136	0.0058	0.0013	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.0114	0.0058	0.0027	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.0131	0.0058	0.0023	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0116	0.0058	0.0026	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0131	0.0058	0.0016	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0046 J	0.0058	0.0018	mg/kg	SW846 8270D BY SIM
Chrysene		0.0189	0.0058	0.0016	mg/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.0057 J	0.0058	0.0017	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.0066	0.0058	0.0017	mg/kg	SW846 8270D BY SIM
Fluorene		0.0218	0.0058	0.0011	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0082	0.0058	0.0014	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		0.0295 J	0.12	0.029	mg/kg	SW846 8270D BY SIM
Phenanthrene		0.174	0.0058	0.0012	mg/kg	SW846 8270D BY SIM
Pyrene		0.0461	0.0058	0.0018	mg/kg	SW846 8270D BY SIM
MC36526-4	**EQB-ROX-012015 (MW-23)**					
Di-n-butyl phthalate		0.22 J	5.3	0.18	ug/l	SW846 8270D
MC36526-5	**TB-ROX-012015 (MW-23)**					
No hits reported in this sample.						
MC36526-6	**TB-ROX-012015 (MW-23)**					
No hits reported in this sample.						
MC36526-7	**MW23-ROX-011915 (4-6') DUP**					
Acetone		0.0497	0.014	0.0040	mg/kg	SW846 8260C
Benzene		0.00059 J	0.00072	0.00049	mg/kg	SW846 8260C
n-Butylbenzene		0.0083	0.0072	0.00035	mg/kg	SW846 8260C
sec-Butylbenzene		0.0034 J	0.0072	0.0011	mg/kg	SW846 8260C
tert-Butylbenzene		0.00060 J	0.0072	0.00030	mg/kg	SW846 8260C
Carbon disulfide		0.0037 J	0.0072	0.00019	mg/kg	SW846 8260C
Ethylbenzene		0.0040	0.0029	0.00099	mg/kg	SW846 8260C
Isopropylbenzene		0.0036 J	0.0072	0.00024	mg/kg	SW846 8260C
p-Isopropyltoluene		0.0064 J	0.0072	0.00025	mg/kg	SW846 8260C
Naphthalene		0.0143	0.0072	0.00057	mg/kg	SW846 8260C
n-Propylbenzene		0.0044 J	0.0072	0.00022	mg/kg	SW846 8260C
Toluene		0.00090 J	0.0072	0.00030	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene		0.0302	0.0072	0.0021	mg/kg	SW846 8260C

Summary of Hits

Job Number: MC36526
Account: Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Collected: 01/19/15 thru 01/20/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene		0.0072	0.0072	0.0022	mg/kg	SW846 8260C
m,p-Xylene		0.0060	0.0029	0.00063	mg/kg	SW846 8260C
o-Xylene		0.0122	0.0029	0.00041	mg/kg	SW846 8260C
Xylene (total)		0.0181	0.0029	0.00032	mg/kg	SW846 8260C
Dibenzofuran		0.736	0.71	0.099	mg/kg	SW846 8270D
Acenaphthene		0.476	0.036	0.0062	mg/kg	SW846 8270D BY SIM
Acenaphthylene		0.186	0.036	0.0054	mg/kg	SW846 8270D BY SIM
Anthracene		1.07	0.036	0.0078	mg/kg	SW846 8270D BY SIM
Benzo(a)anthracene		0.700	0.036	0.016	mg/kg	SW846 8270D BY SIM
Benzo(a)pyrene		0.381	0.036	0.014	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.241	0.036	0.016	mg/kg	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.374	0.036	0.0097	mg/kg	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0777	0.036	0.011	mg/kg	SW846 8270D BY SIM
Chrysene		1.19	0.036	0.0096	mg/kg	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.165	0.036	0.010	mg/kg	SW846 8270D BY SIM
Fluoranthene		0.398	0.036	0.011	mg/kg	SW846 8270D BY SIM
Fluorene		1.93	0.036	0.0070	mg/kg	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.138	0.036	0.0088	mg/kg	SW846 8270D BY SIM
1-Methylnaphthalene		3.46	0.71	0.18	mg/kg	SW846 8270D BY SIM
2-Methylnaphthalene		2.14	0.71	0.18	mg/kg	SW846 8270D BY SIM
Phenanthrene		12.7	0.036	0.0075	mg/kg	SW846 8270D BY SIM
Pyrene		2.90	0.036	0.011	mg/kg	SW846 8270D BY SIM
TPH-GRO (VOA)		18.7	18	1.8	mg/kg	SW846 8015

(a) Elevated RL due to dilution required for matrix interference.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M71396.D	1	01/30/15	AMY	n/a	n/a	MSM2540
Run #2	G143350.D	1	01/23/15	JM	n/a	n/a	MSG5379

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.56 g	5.0 ml	
Run #2	5.34 g	10.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0493	0.016	0.0044	mg/kg	
107-02-8	Acrolein	ND	0.039	0.014	mg/kg	
107-13-1	Acrylonitrile	ND	0.039	0.0043	mg/kg	
71-43-2	Benzene	ND	0.00079	0.00053	mg/kg	
108-86-1	Bromobenzene	ND	0.0079	0.00040	mg/kg	
74-97-5	Bromochloromethane	ND	0.0079	0.00054	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0032	0.00033	mg/kg	
75-25-2	Bromoform	ND	0.0032	0.00056	mg/kg	
74-83-9	Bromomethane	ND	0.0032	0.00095	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.016	0.0048	mg/kg	
104-51-8	n-Butylbenzene	0.0040	0.0079	0.00038	mg/kg	J
135-98-8	sec-Butylbenzene	0.0020	0.0079	0.0012	mg/kg	J
98-06-6	tert-Butylbenzene	ND	0.0079	0.00033	mg/kg	
75-15-0	Carbon disulfide	0.0053	0.0079	0.00021	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0032	0.00035	mg/kg	
108-90-7	Chlorobenzene	ND	0.0032	0.00025	mg/kg	
75-00-3	Chloroethane	ND	0.0079	0.0012	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	0.78	0.20	mg/kg	
67-66-3	Chloroform	ND	0.0032	0.00027	mg/kg	
74-87-3	Chloromethane	ND	0.0079	0.00089	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0079	0.00030	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0079	0.00042	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0032	0.00051	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0032	0.00033	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0032	0.00048	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0032	0.00054	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0032	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0032	0.00042	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0032	0.00051	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0032	0.00065	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0032	0.00071	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0032	0.00066	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0032	0.00066	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0079	0.00052	mg/kg	
594-20-7	2,2-Dichloropropane [b]	ND	0.0079	0.00089	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0079	0.00042	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0032	0.00036	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0032	0.00041	mg/kg	
123-91-1	1,4-Dioxane [b]	ND	0.039	0.032	mg/kg	
97-63-2	Ethyl methacrylate [b]	ND	0.0079	0.00056	mg/kg	
100-41-4	Ethylbenzene	0.0025	0.0032	0.0011	mg/kg	J
87-68-3	Hexachlorobutadiene	ND	0.0079	0.00091	mg/kg	
591-78-6	2-Hexanone	ND	0.016	0.0012	mg/kg	
98-82-8	Isopropylbenzene	0.0022	0.0079	0.00026	mg/kg	J
99-87-6	p-Isopropyltoluene	0.0035	0.0079	0.00027	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0032	0.00029	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIB [b]	ND	0.0079	0.00085	mg/kg	
74-95-3	Methylene bromide	ND	0.0079	0.00072	mg/kg	
75-09-2	Methylene chloride	ND	0.0032	0.00084	mg/kg	
91-20-3	Naphthalene	0.0081	0.0079	0.00062	mg/kg	
103-65-1	n-Propylbenzene	0.0023	0.0079	0.00024	mg/kg	J
100-42-5	Styrene	ND	0.0079	0.00027	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0079	0.00063	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0032	0.00062	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0032	0.00049	mg/kg	
108-88-3	Toluene	0.00046	0.0079	0.00032	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0079	0.00067	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0079	0.00081	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0032	0.00034	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0032	0.00090	mg/kg	
79-01-6	Trichloroethene	ND	0.0032	0.00039	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0032	0.00063	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0079	0.00045	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0165	0.0079	0.0023	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0039	0.0079	0.0024	mg/kg	J
108-05-4	Vinyl Acetate	ND	0.0079	0.0024	mg/kg	
75-01-4	Vinyl chloride	ND	0.0032	0.0014	mg/kg	
	m,p-Xylene	0.0028	0.0032	0.00069	mg/kg	J
95-47-6	o-Xylene	0.0069	0.0032	0.00045	mg/kg	
1330-20-7	Xylene (total)	0.0097	0.0032	0.00035	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	103%	63-139%
2037-26-5	Toluene-D8	96%	102%	61-136%
460-00-4	4-Bromofluorobenzene	85%	95%	51-140%

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

(a) Result is from Run# 2
(b) CCV outside criteria. Sample results may be low biased.

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W20020.D	5	01/23/15	KD	01/22/15	OP41775	MSW873
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	3.5	0.44	mg/kg	
95-57-8	2-Chlorophenol	ND	1.8	0.079	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3.5	0.089	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	3.5	0.10	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	3.5	0.57	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	7.0	0.88	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3.5	0.44	mg/kg	
95-48-7	2-Methylphenol	ND	3.5	0.14	mg/kg	
	3&4-Methylphenol	ND	3.5	0.17	mg/kg	
88-75-5	2-Nitrophenol	ND	3.5	0.094	mg/kg	
100-02-7	4-Nitrophenol	ND	7.0	0.66	mg/kg	
87-86-5	Pentachlorophenol	ND	3.5	0.25	mg/kg	
108-95-2	Phenol	ND	1.8	0.10	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3.5	0.088	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3.5	0.087	mg/kg	
62-53-3	Aniline	ND	3.5	0.18	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1.8	0.089	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	1.8	0.072	mg/kg	
100-51-6	Benzyl Alcohol	ND	3.5	0.18	mg/kg	
91-58-7	2-Chloronaphthalene	ND	1.8	0.095	mg/kg	
106-47-8	4-Chloroaniline	ND	3.5	0.088	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1.8	0.082	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1.8	0.11	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1.8	0.13	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1.8	0.11	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	1.8	0.079	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	3.5	0.23	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	3.5	0.088	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1.8	0.18	mg/kg	
132-64-9	Dibenzofuran	0.844	0.70	0.097	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	1.8	0.19	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	1.8	0.055	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	1.8	0.088	mg/kg	
131-11-3	Dimethyl phthalate	ND	1.8	0.10	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1.8	0.065	mg/kg	
118-74-1	Hexachlorobenzene	ND	1.8	0.11	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3.5	0.88	mg/kg	
67-72-1	Hexachloroethane	ND	1.8	0.085	mg/kg	
78-59-1	Isophorone	ND	1.8	0.081	mg/kg	
88-74-4	2-Nitroaniline	ND	3.5	0.088	mg/kg	
99-09-2	3-Nitroaniline	ND	3.5	0.19	mg/kg	
100-01-6	4-Nitroaniline	ND	3.5	0.088	mg/kg	
98-95-3	Nitrobenzene	ND	1.8	0.095	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	1.8	0.084	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1.8	0.10	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1.8	0.11	mg/kg	
110-86-1	Pyridine	ND	3.5	0.18	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		30-130%
4165-62-2	Phenol-d5	57%		30-130%
118-79-6	2,4,6-Tribromophenol	59%		30-130%
4165-60-0	Nitrobenzene-d5	51%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

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

(a) Elevated RL due to dilution required for 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:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93995.D	5	01/23/15	MR	01/22/15	OP41776	MSI3506
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.522	0.035	0.0061	mg/kg	
208-96-8	Acenaphthylene	0.211	0.035	0.0053	mg/kg	
120-12-7	Anthracene	1.08	0.035	0.0077	mg/kg	
56-55-3	Benzo(a)anthracene	0.630	0.035	0.016	mg/kg	
50-32-8	Benzo(a)pyrene	0.327	0.035	0.014	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.227	0.035	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.336	0.035	0.0095	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0663	0.035	0.011	mg/kg	
218-01-9	Chrysene	1.13	0.035	0.0095	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.147	0.035	0.010	mg/kg	
206-44-0	Fluoranthene	0.388	0.035	0.010	mg/kg	
86-73-7	Fluorene	2.12	0.035	0.0069	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.121	0.035	0.0087	mg/kg	
90-12-0	1-Methylnaphthalene	4.18	0.70	0.18	mg/kg	
91-57-6	2-Methylnaphthalene	2.87	0.70	0.18	mg/kg	
85-01-8	Phenanthrene	12.7	0.035	0.0073	mg/kg	
129-00-0	Pyrene	2.72	0.035	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	51%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	71%		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:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61627.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0036	0.0011	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0036	0.00088	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	162%		70-170%
460-00-4	Bromofluorobenzene (S)	150%		70-170%

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6')		
Lab Sample ID:	MC36526-1	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8015	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87854.D	1	01/23/15	AF	n/a	n/a	GAB4734
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.33 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	18.7	16	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		50-130%

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:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M71395.D	1	01/30/15	AMY	n/a	n/a	MSM2540
Run #2	G143490.D	1	01/30/15	JM	n/a	n/a	MSG5383

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.55 g	5.0 ml	
Run #2	5.44 g	10.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.0091	0.0025	mg/kg	
107-02-8	Acrolein	ND	0.023	0.0080	mg/kg	
107-13-1	Acrylonitrile	ND	0.023	0.0025	mg/kg	
71-43-2	Benzene	ND	0.00045	0.00031	mg/kg	
108-86-1	Bromobenzene	ND	0.0045	0.00023	mg/kg	
74-97-5	Bromochloromethane	ND	0.0045	0.00031	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0018	0.00019	mg/kg	
75-25-2	Bromoform	ND	0.0018	0.00032	mg/kg	
74-83-9	Bromomethane	ND	0.0018	0.00055	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.0091	0.0028	mg/kg	
104-51-8	n-Butylbenzene	0.00036	0.0045	0.00022	mg/kg	J
135-98-8	sec-Butylbenzene	ND	0.0045	0.00068	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0045	0.00019	mg/kg	
75-15-0	Carbon disulfide	0.00060	0.0045	0.00012	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0018	0.00020	mg/kg	
108-90-7	Chlorobenzene	ND	0.0018	0.00014	mg/kg	
75-00-3	Chloroethane	ND	0.0045	0.00069	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	0.59	0.15	mg/kg	
67-66-3	Chloroform	ND	0.0018	0.00015	mg/kg	
74-87-3	Chloromethane	ND	0.0045	0.00051	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0045	0.00017	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0045	0.00024	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0018	0.00029	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0018	0.00019	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0018	0.00027	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0018	0.00031	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0018	0.00073	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0018	0.00024	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0018	0.00029	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0018	0.00038	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0018	0.00041	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0018	0.00038	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0018	0.00038	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0045	0.00030	mg/kg	
594-20-7	2,2-Dichloropropane [b]	ND	0.0045	0.00051	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0045	0.00024	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0018	0.00021	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0018	0.00024	mg/kg	
123-91-1	1,4-Dioxane [b]	ND	0.023	0.018	mg/kg	
97-63-2	Ethyl methacrylate [b]	ND	0.0045	0.00032	mg/kg	
100-41-4	Ethylbenzene	ND	0.0018	0.00063	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0045	0.00052	mg/kg	
591-78-6	2-Hexanone	ND	0.0091	0.00069	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0045	0.00015	mg/kg	
99-87-6	p-Isopropyltoluene	0.00035	0.0045	0.00016	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0018	0.00017	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIB [b]	ND	0.0045	0.00049	mg/kg	
74-95-3	Methylene bromide	ND	0.0045	0.00041	mg/kg	
75-09-2	Methylene chloride	ND	0.0018	0.00048	mg/kg	
91-20-3	Naphthalene	0.00098	0.0045	0.00036	mg/kg	J
103-65-1	n-Propylbenzene	ND	0.0045	0.00014	mg/kg	
100-42-5	Styrene	ND	0.0045	0.00015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0045	0.00036	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0018	0.00036	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0018	0.00028	mg/kg	
108-88-3	Toluene	0.00046	0.0045	0.00019	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0045	0.00039	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0045	0.00046	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0018	0.00020	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0018	0.00052	mg/kg	
79-01-6	Trichloroethene	ND	0.0018	0.00022	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0018	0.00036	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0045	0.00026	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0045	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0045	0.0014	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0045	0.0014	mg/kg	
75-01-4	Vinyl chloride	ND	0.0018	0.00083	mg/kg	
	m,p-Xylene	ND	0.0018	0.00040	mg/kg	
95-47-6	o-Xylene	0.00030	0.0018	0.00026	mg/kg	J
1330-20-7	Xylene (total)	0.00030	0.0018	0.00020	mg/kg	J

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

Report of Analysis

Client Sample ID:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	104%	63-139%
2037-26-5	Toluene-D8	95%	103%	61-136%
460-00-4	4-Bromofluorobenzene	93%	99%	51-140%

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

(a) Result is from Run# 2
(b) CCV outside criteria. Sample results may be low biased.

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

Report of Analysis

Client Sample ID:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20019.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	0.58	0.073	mg/kg	
95-57-8	2-Chlorophenol	ND	0.29	0.013	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.58	0.015	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.58	0.017	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.58	0.095	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.58	0.073	mg/kg	
95-48-7	2-Methylphenol	ND	0.58	0.023	mg/kg	
	3&4-Methylphenol	ND	0.58	0.028	mg/kg	
88-75-5	2-Nitrophenol	ND	0.58	0.016	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.58	0.041	mg/kg	
108-95-2	Phenol	ND	0.29	0.017	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.58	0.015	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.58	0.014	mg/kg	
62-53-3	Aniline	ND	0.58	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	0.012	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.58	0.029	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.58	0.015	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	0.018	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	0.021	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	0.018	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.58	0.039	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.58	0.015	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	0.029	mg/kg	
132-64-9	Dibenzofuran	ND	0.12	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	0.031	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	0.0091	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	0.29	0.015	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	0.017	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	0.011	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.58	0.15	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	0.014	mg/kg	
78-59-1	Isophorone	ND	0.29	0.013	mg/kg	
88-74-4	2-Nitroaniline	ND	0.58	0.015	mg/kg	
99-09-2	3-Nitroaniline	ND	0.58	0.032	mg/kg	
100-01-6	4-Nitroaniline	ND	0.58	0.015	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	0.016	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	0.017	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	0.018	mg/kg	
110-86-1	Pyridine	ND	0.58	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		30-130%
4165-62-2	Phenol-d5	89%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%
1718-51-0	Terphenyl-d14	105%		30-130%

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

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:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93994.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.0051	0.0058	0.0010	mg/kg	J
208-96-8	Acenaphthylene	0.0059	0.0058	0.00089	mg/kg	
120-12-7	Anthracene	0.0136	0.0058	0.0013	mg/kg	
56-55-3	Benzo(a)anthracene	0.0114	0.0058	0.0027	mg/kg	
50-32-8	Benzo(a)pyrene	0.0131	0.0058	0.0023	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0116	0.0058	0.0026	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0131	0.0058	0.0016	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0046	0.0058	0.0018	mg/kg	J
218-01-9	Chrysene	0.0189	0.0058	0.0016	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0057	0.0058	0.0017	mg/kg	J
206-44-0	Fluoranthene	0.0066	0.0058	0.0017	mg/kg	
86-73-7	Fluorene	0.0218	0.0058	0.0011	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0082	0.0058	0.0014	mg/kg	
90-12-0	1-Methylnaphthalene	0.0295	0.12	0.029	mg/kg	J
91-57-6	2-Methylnaphthalene	ND	0.12	0.029	mg/kg	
85-01-8	Phenanthrene	0.174	0.0058	0.0012	mg/kg	
129-00-0	Pyrene	0.0461	0.0058	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	109%		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:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61626.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0029	0.00086	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0029	0.00072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	125%		70-170%
460-00-4	Bromofluorobenzene (S)	134%		70-170%

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-012015 (32-36')		
Lab Sample ID:	MC36526-2	**Date Sampled:**	01/20/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8015	**Percent Solids:**	84.1
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87847.D	1	01/23/15	AF	n/a	n/a	GAB4734
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.21 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	12	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		50-130%

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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94574.D	1	01/30/15	JB	n/a	n/a	MSN3489
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile [a]	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIB [a]	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		67-134%
2037-26-5	Toluene-D8	98%		79-121%
460-00-4	4-Bromofluorobenzene	100%		71-133%

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

(a) 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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20069.D	1	01/26/15	KD	01/22/15	OP41769	MSW874
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.22	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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%		10-73%
4165-62-2	Phenol-d5	27%		10-58%
118-79-6	2,4,6-Tribromophenol	81%		15-125%
4165-60-0	Nitrobenzene-d5	73%		23-120%
321-60-8	2-Fluorobiphenyl	73%		31-102%
1718-51-0	Terphenyl-d14	94%		42-124%

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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94022.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507
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	0.0079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0088	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	100%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61598.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		60-140%
460-00-4	Bromofluorobenzene (S)	127%		60-140%

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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:	EQB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-4	**Date Sampled:**	01/20/15
Matrix:	AQ - Equipment Blank	**Date Received:**	01/21/15
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87853.D	1	01/23/15	AF	n/a	n/a	GAB4735
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	89%		60-135%

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

J = Indicates 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-012015 (MW-23)		
Lab Sample ID:	MC36526-5	**Date Sampled:**	01/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94575.D	1	01/30/15	JB	n/a	n/a	MSN3489
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	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile [a]	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane [a]	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-ROX-012015 (MW-23)		
Lab Sample ID:	MC36526-5	**Date Sampled:**	01/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane [a]	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIB [a]	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-012015 (MW-23)		
Lab Sample ID:	MC36526-5	**Date Sampled:**	01/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-134%
2037-26-5	Toluene-D8	97%		79-121%
460-00-4	4-Bromofluorobenzene	99%		71-133%

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

(a) 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-012015 (MW-23)		
Lab Sample ID:	MC36526-6	**Date Sampled:**	01/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/21/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61599.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		60-140%
460-00-4	Bromofluorobenzene (S)	123%		60-140%

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M71397.D	1	01/30/15	AMY	n/a	n/a	MSM2540
Run #2	G143351.D	1	01/23/15	JM	n/a	n/a	MSG5379

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	
Run #2	3.94 g	10.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0497	0.014	0.0040	mg/kg	
107-02-8	Acrolein	ND	0.036	0.013	mg/kg	
107-13-1	Acrylonitrile	ND	0.036	0.0039	mg/kg	
71-43-2	Benzene	0.00059	0.00072	0.00049	mg/kg	J
108-86-1	Bromobenzene	ND	0.0072	0.00036	mg/kg	
74-97-5	Bromochloromethane	ND	0.0072	0.00050	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0029	0.00030	mg/kg	
75-25-2	Bromoform	ND	0.0029	0.00051	mg/kg	
74-83-9	Bromomethane	ND	0.0029	0.00087	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.014	0.0044	mg/kg	
104-51-8	n-Butylbenzene	0.0083	0.0072	0.00035	mg/kg	
135-98-8	sec-Butylbenzene	0.0034	0.0072	0.0011	mg/kg	J
98-06-6	tert-Butylbenzene	0.00060	0.0072	0.00030	mg/kg	J
75-15-0	Carbon disulfide	0.0037	0.0072	0.00019	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0029	0.00032	mg/kg	
108-90-7	Chlorobenzene	ND	0.0029	0.00023	mg/kg	
75-00-3	Chloroethane	ND	0.0072	0.0011	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	1.0	0.26	mg/kg	
67-66-3	Chloroform	ND	0.0029	0.00024	mg/kg	
74-87-3	Chloromethane	ND	0.0072	0.00081	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0072	0.00028	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0072	0.00038	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0029	0.00046	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0029	0.00031	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0029	0.00044	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0029	0.00050	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0029	0.0012	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0029	0.00038	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0029	0.00046	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0029	0.00059	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0029	0.00065	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0029	0.00060	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0029	0.00060	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0072	0.00047	mg/kg	
594-20-7	2,2-Dichloropropane [b]	ND	0.0072	0.00081	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0072	0.00038	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0029	0.00033	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0029	0.00038	mg/kg	
123-91-1	1,4-Dioxane [b]	ND	0.036	0.029	mg/kg	
97-63-2	Ethyl methacrylate [b]	ND	0.0072	0.00051	mg/kg	
100-41-4	Ethylbenzene	0.0040	0.0029	0.00099	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0072	0.00083	mg/kg	
591-78-6	2-Hexanone	ND	0.014	0.0011	mg/kg	
98-82-8	Isopropylbenzene	0.0036	0.0072	0.00024	mg/kg	J
99-87-6	p-Isopropyltoluene	0.0064	0.0072	0.00025	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0029	0.00026	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIB [b]	ND	0.0072	0.00078	mg/kg	
74-95-3	Methylene bromide	ND	0.0072	0.00066	mg/kg	
75-09-2	Methylene chloride	ND	0.0029	0.00076	mg/kg	
91-20-3	Naphthalene	0.0143	0.0072	0.00057	mg/kg	
103-65-1	n-Propylbenzene	0.0044	0.0072	0.00022	mg/kg	J
100-42-5	Styrene	ND	0.0072	0.00025	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0072	0.00058	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0029	0.00057	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0029	0.00045	mg/kg	
108-88-3	Toluene	0.00090	0.0072	0.00030	mg/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	0.0072	0.00061	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0072	0.00074	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0029	0.00031	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0029	0.00083	mg/kg	
79-01-6	Trichloroethene	ND	0.0029	0.00035	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0029	0.00057	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0072	0.00041	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0302	0.0072	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0072	0.0072	0.0022	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0072	0.0022	mg/kg	
75-01-4	Vinyl chloride	ND	0.0029	0.0013	mg/kg	
	m,p-Xylene	0.0060	0.0029	0.00063	mg/kg	
95-47-6	o-Xylene	0.0122	0.0029	0.00041	mg/kg	
1330-20-7	Xylene (total)	0.0181	0.0029	0.00032	mg/kg	

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:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8260C	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	63-139%
2037-26-5	Toluene-D8	97%	102%	61-136%
460-00-4	4-Bromofluorobenzene	85%	102%	51-140%

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

(a) Result is from Run# 2
(b) CCV outside criteria. Sample results may be low biased.

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20021.D	5	01/23/15	KD	01/22/15	OP41775	MSW873
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	3.6	0.45	mg/kg	
95-57-8	2-Chlorophenol	ND	1.8	0.080	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3.6	0.090	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	3.6	0.10	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	3.6	0.58	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	7.1	0.89	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3.6	0.45	mg/kg	
95-48-7	2-Methylphenol	ND	3.6	0.14	mg/kg	
	3&4-Methylphenol	ND	3.6	0.17	mg/kg	
88-75-5	2-Nitrophenol	ND	3.6	0.095	mg/kg	
100-02-7	4-Nitrophenol	ND	7.1	0.67	mg/kg	
87-86-5	Pentachlorophenol	ND	3.6	0.25	mg/kg	
108-95-2	Phenol	ND	1.8	0.10	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3.6	0.089	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3.6	0.088	mg/kg	
62-53-3	Aniline	ND	3.6	0.18	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1.8	0.090	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	1.8	0.073	mg/kg	
100-51-6	Benzyl Alcohol	ND	3.6	0.18	mg/kg	
91-58-7	2-Chloronaphthalene	ND	1.8	0.097	mg/kg	
106-47-8	4-Chloroaniline	ND	3.6	0.089	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1.8	0.084	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1.8	0.11	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1.8	0.13	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1.8	0.11	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	1.8	0.080	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	3.6	0.24	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	3.6	0.089	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1.8	0.18	mg/kg	
132-64-9	Dibenzofuran	0.736	0.71	0.099	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	1.8	0.19	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	1.8	0.056	mg/kg	

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	1.8	0.089	mg/kg	
131-11-3	Dimethyl phthalate	ND	1.8	0.10	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1.8	0.066	mg/kg	
118-74-1	Hexachlorobenzene	ND	1.8	0.11	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3.6	0.89	mg/kg	
67-72-1	Hexachloroethane	ND	1.8	0.086	mg/kg	
78-59-1	Isophorone	ND	1.8	0.082	mg/kg	
88-74-4	2-Nitroaniline	ND	3.6	0.089	mg/kg	
99-09-2	3-Nitroaniline	ND	3.6	0.20	mg/kg	
100-01-6	4-Nitroaniline	ND	3.6	0.089	mg/kg	
98-95-3	Nitrobenzene	ND	1.8	0.096	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	1.8	0.085	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1.8	0.10	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1.8	0.11	mg/kg	
110-86-1	Pyridine	ND	3.6	0.18	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		26-108%
4165-62-2	Phenol-d5	69%		30-106%
118-79-6	2,4,6-Tribromophenol	82%		10-128%
4165-60-0	Nitrobenzene-d5	63%		24-120%
321-60-8	2-Fluorobiphenyl	71%		33-113%
1718-51-0	Terphenyl-d14	86%		47-129%

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I93996.D	5	01/23/15	MR	01/22/15	OP41776	MSI3506
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.476	0.036	0.0062	mg/kg	
208-96-8	Acenaphthylene	0.186	0.036	0.0054	mg/kg	
120-12-7	Anthracene	1.07	0.036	0.0078	mg/kg	
56-55-3	Benzo(a)anthracene	0.700	0.036	0.016	mg/kg	
50-32-8	Benzo(a)pyrene	0.381	0.036	0.014	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.241	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.374	0.036	0.0097	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0777	0.036	0.011	mg/kg	
218-01-9	Chrysene	1.19	0.036	0.0096	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.165	0.036	0.010	mg/kg	
206-44-0	Fluoranthene	0.398	0.036	0.011	mg/kg	
86-73-7	Fluorene	1.93	0.036	0.0070	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.138	0.036	0.0088	mg/kg	
90-12-0	1-Methylnaphthalene	3.46	0.71	0.18	mg/kg	
91-57-6	2-Methylnaphthalene	2.14	0.71	0.18	mg/kg	
85-01-8	Phenanthrene	12.7	0.036	0.0075	mg/kg	
129-00-0	Pyrene	2.90	0.036	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	91%		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:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8011 SW846 3550B	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB61628.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	50.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0036	0.0010	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0036	0.00087	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	142%		70-170%
460-00-4	Bromofluorobenzene (S)	145%		70-170%

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

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

Report of Analysis

Client Sample ID:	MW23-ROX-011915 (4-6') DUP		
Lab Sample ID:	MC36526-7	**Date Sampled:**	01/19/15
Matrix:	SO - Soil	**Date Received:**	01/21/15
Method:	SW846 8015	**Percent Solids:**	69.5
Project:	URSMOSTL:21563720.03200 BP Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB87855.D	1	01/23/15	AF	n/a	n/a	GAB4734
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.61 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	18.7	18	1.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		50-130%

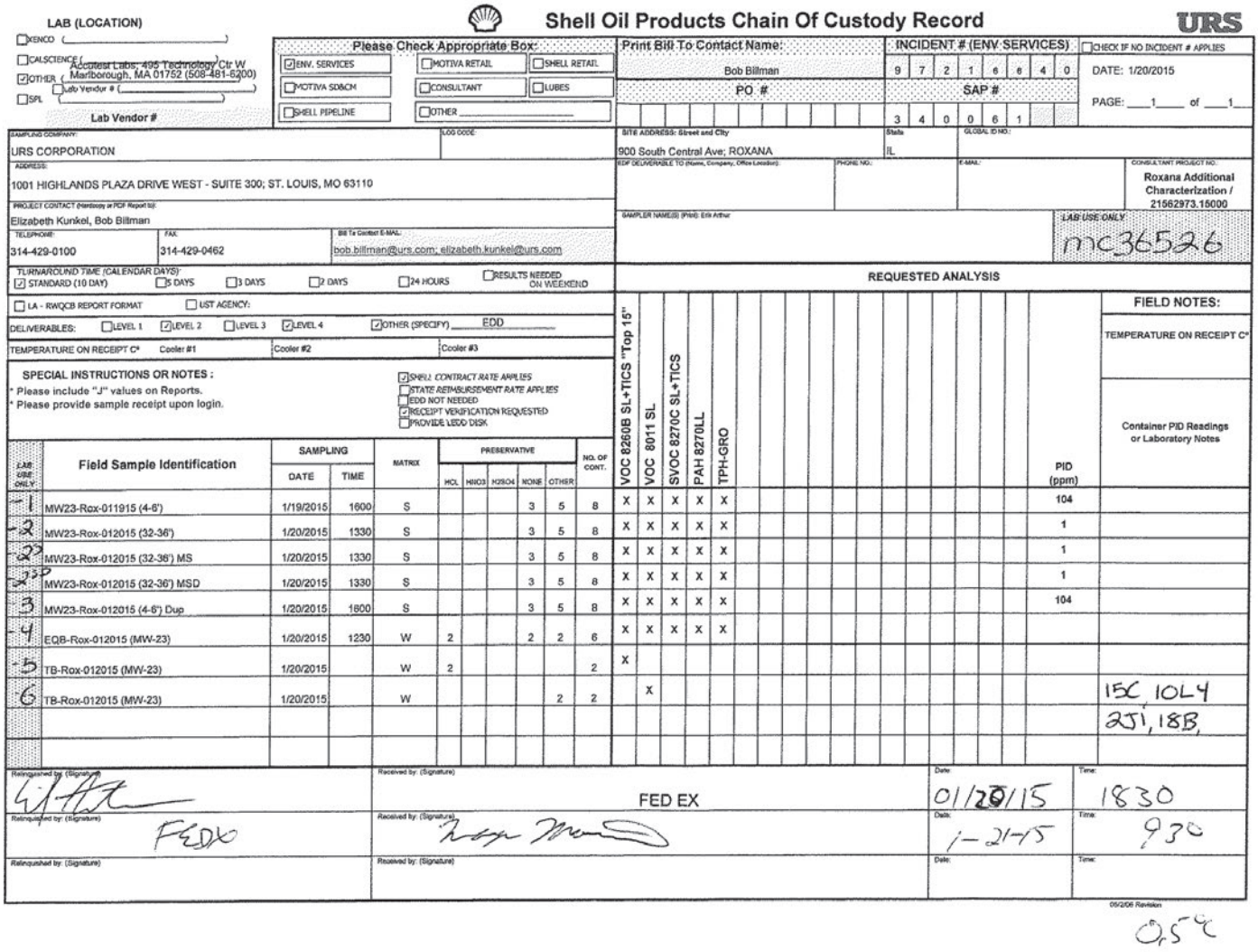
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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 ( )
- [x] OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
- [ ] Lab Vendor # ( )
- [ ] SPL

Lab Vendor #

Please Check Appropriate Box:
- [x] 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: 1/20/2015

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 Additional Characterization / 21562973.15000

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman

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): Erik Arthur

LAB USE ONLY: mc36526

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (10 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [x] LEVEL 4 [x] 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.

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] 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 "Top 15"	VOC 8011 SL	SVOC 8270C SL+TICS	PAH 8270LL	TPH-GRO	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW23-Rox-011915 (4-6')	1/19/2015	1600	S				3	5	8	X	X	X	X	X	104	
-2	MW23-Rox-012015 (32-36')	1/20/2015	1330	S				3	5	8	X	X	X	X	X	1	
-2S	MW23-Rox-012015 (32-36') MS	1/20/2015	1330	S				3	5	8	X	X	X	X	X	1	
-2SD	MW23-Rox-012015 (32-36') MSD	1/20/2015	1330	S				3	5	8	X	X	X	X	X	1	
-3	MW23-Rox-012015 (4-6') Dup	1/20/2015	1600	S				3	5	8	X	X	X	X	X	104	
-4	EQB-Rox-012015 (MW-23)	1/20/2015	1230	W	2			2	2	6	X	X	X	X	X		
-5	TB-Rox-012015 (MW-23)	1/20/2015		W	2					2	X						
-6	TB-Rox-012015 (MW-23)	1/20/2015		W					2	2		X					15C, 10L4
																	2J1, 18B,

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FED EX	01/20/15	1830
FEDX	[signature]	1-21-15	930

05/2/06 Revision

0.5°C

MC36526: Chain of Custody
Page 1 of 3

5.1 5

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SGS ACCUTEST MC36526

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36526 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 1/21/2015 9:30:00 AM **Delivery Method:**

Project: 900 SOUTH CENTRAL SOIL **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	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

Sample MC36526-3, "MW23-Rox-012015 (4-6") DUP" was collected on a different date than the original sample "MW23-Rox-011915 (4-6')"

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: MC36526

CSR: Jeremy Vienneau **Response Date:** 1/23/2015

Response: Accutest was able to use additional volume submitted for "MW23-ROX-011915 (4-6')", collected on 1/19/2015, to analyze a duplicate for this sample. The duplicate was logged in under MC36526-7 and given the sample ID "MW23-ROX-011915 (4'6') DUP".

Per the client's request, sample MC36526-3 "MW23-ROX-012015 (4-6')", collected on 1/20/2015, was cancelled.

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Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36526

URSMOSTL:21563720.03200 BP Well
Project No: 21563720.03200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36526-1 Collected: 19-JAN-15 16:00 By: MW23-ROX-011915 (4-6')			Received: 21-JAN-15 By:			
MC36526-1	SM 2540G-97 MOD	23-JAN-15	HS			%SOL
MC36526-1	SW846 8270D	23-JAN-15 12:22	KD	22-JAN-15	MD	AB8270SL+
MC36526-1	SW846 8270D BY SIM	23-JAN-15 16:33	MR	22-JAN-15	MD	B8270SIMSL
MC36526-1	SW846 8015	23-JAN-15 17:39	AF			V8015GRO
MC36526-1	SW846 8260C	23-JAN-15 18:08	JM			V8260SL+
MC36526-1	SW846 8011	28-JAN-15 22:04	NK	23-JAN-15	AZ	V8011SL
MC36526-1	SW846 8260C	30-JAN-15 11:52	AMY			V8260SL+
MC36526-2 Collected: 20-JAN-15 13:30 By: MW23-ROX-012015 (32-36')			Received: 21-JAN-15 By:			
MC36526-2	SM 2540G-97 MOD	23-JAN-15	HS			%SOL
MC36526-2	SW846 8270D	23-JAN-15 11:58	KD	22-JAN-15	MD	AB8270SL+
MC36526-2	SW846 8015	23-JAN-15 13:16	AF			V8015GRO
MC36526-2	SW846 8270D BY SIM	23-JAN-15 16:09	MR	22-JAN-15	MD	B8270SIMSL
MC36526-2	SW846 8011	28-JAN-15 21:43	NK	23-JAN-15	AZ	V8011SL
MC36526-2	SW846 8260C	30-JAN-15 11:22	AMY			V8260SL+
MC36526-2	SW846 8260C	30-JAN-15 12:36	JM			V8260SL+
MC36526-4 Collected: 20-JAN-15 12:30 By: EQB-ROX-012015 (MW-23)			Received: 21-JAN-15 By:			
MC36526-4	SW846 8015	23-JAN-15 17:02	AF			V8015GRO
MC36526-4	SW846 8270D BY SIM	26-JAN-15 17:05	MR	22-JAN-15	AJ	B8270SIMSL
MC36526-4	SW846 8270D	26-JAN-15 19:30	KD	22-JAN-15	AJ	AB8270SL+
MC36526-4	SW846 8011	27-JAN-15 06:09	NK	24-JAN-15	MT	V8011SL
MC36526-4	SW846 8260C	30-JAN-15 11:14	JB			V8260SL+
MC36526-5 Collected: 20-JAN-15 00:00 By: TB-ROX-012015 (MW-23)			Received: 21-JAN-15 By:			
MC36526-5	SW846 8260C	30-JAN-15 11:43	JB			V8260SL+
MC36526-6 Collected: 20-JAN-15 00:00 By: TB-ROX-012015 (MW-23)			Received: 21-JAN-15 By:			
MC36526-6	SW846 8011	27-JAN-15 06:32	NK	24-JAN-15	MT	V8011SL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36526

URSMOSTL:21563720.03200 BP Well
Project No: 21563720.03200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36526-7 Collected: 19-JAN-15 16:00 By: MW23-ROX-011915 (4-6') DUP		Received: 21-JAN-15 By:				
MC36526-7	SM 2540G-97 MOD	23-JAN-15	HS			%SOL
MC36526-7	SW846 8270D	23-JAN-15 12:47	KD	22-JAN-15	NE	AB8270SL+
MC36526-7	SW846 8270D BY SIM	23-JAN-15 16:56	MR	22-JAN-15	NE	B8270SIMSL
MC36526-7	SW846 8015	23-JAN-15 18:16	AF			V8015GRO
MC36526-7	SW846 8260C	23-JAN-15 18:34	JM			V8260SL+
MC36526-7	SW846 8011	28-JAN-15 22:27	NK	23-JAN-15	AZ	V8011SL
MC36526-7	SW846 8260C	30-JAN-15 12:22	AMY			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Received: 01/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36526-1.2	Walk In Ref #9	Nicole Estey	01/22/15 19:24	Retrieve from Storage
MC36526-1.2	Nicole Estey	Walk In Ref #9	01/22/15 22:07	Return to Storage
MC36526-1.2	Walk In Ref #9	Alireza Zeighami	01/23/15 06:58	Retrieve from Storage
MC36526-1.2	Alireza Zeighami	Walk In Ref #9	01/23/15 07:53	Return to Storage
MC36526-1.2	Scott Parsick		04/15/15 12:23	Disposed
MC36526-1.5	VOC Ref #10	Amy Min Yang	01/30/15 10:30	Retrieve from Storage
MC36526-1.5	Amy Min Yang	GCMSM	01/30/15 10:30	Load on Instrument
MC36526-1.5	GCMSM	Amy Min Yang	02/02/15 11:10	Unload from Instrument
MC36526-1.5	Amy Min Yang	VOC Ref #10	02/02/15 11:22	Return to Storage
MC36526-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36526-1.6	VOC Ref #10	Jaime Maslowski	01/22/15 14:35	Retrieve from Storage
MC36526-1.6	Jaime Maslowski	VOC Ref #10	01/23/15 09:07	Return to Storage
MC36526-1.6	VOC Ref #10	Jaime Maslowski	01/23/15 09:41	Retrieve from Storage
MC36526-1.6	Jaime Maslowski	VOC Ref #10	01/26/15 08:40	Return to Storage
MC36526-1.6	Scott Parsick		04/15/15 12:23	Disposed
MC36526-1.7	VOC Ref #10	Jaime Maslowski	01/21/15 15:06	Retrieve from Storage
MC36526-1.7	Jaime Maslowski	VOC Ref #10	01/22/15 09:16	Return to Storage
MC36526-1.7	VOC Ref #10	Anthony Franciosa	01/23/15 07:21	Retrieve from Storage
MC36526-1.7	Anthony Franciosa	GCAB	01/23/15 07:22	Load on Instrument
MC36526-1.7	GCAB	Anthony Franciosa	01/26/15 07:44	Unload from Instrument
MC36526-1.7	Anthony Franciosa	VOC Ref #10	01/26/15 07:45	Return to Storage
MC36526-1.7	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.1	Walk In Ref #9	Nicole Estey	01/22/15 19:24	Retrieve from Storage
MC36526-2.1	Nicole Estey	Walk In Ref #9	01/22/15 22:07	Return to Storage
MC36526-2.1	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.4	Walk In Ref #9	Nicole Estey	01/22/15 19:24	Retrieve from Storage
MC36526-2.4	Nicole Estey	Walk In Ref #9	01/22/15 22:07	Return to Storage
MC36526-2.4	Walk In Ref #9	Alireza Zeighami	01/23/15 06:58	Retrieve from Storage
MC36526-2.4	Alireza Zeighami	Walk In Ref #9	01/23/15 07:53	Return to Storage
MC36526-2.4	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.10	VOC Ref #10	Amy Min Yang	01/30/15 10:30	Retrieve from Storage
MC36526-2.10	Amy Min Yang	GCMSM	01/30/15 10:30	Load on Instrument
MC36526-2.10	GCMSM	Amy Min Yang	02/02/15 11:10	Unload from Instrument
MC36526-2.10	Amy Min Yang	VOC Ref #10	02/02/15 11:22	Return to Storage
MC36526-2.10	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.11	VOC Ref #10	Amy Min Yang	01/30/15 10:30	Retrieve from Storage
MC36526-2.11	Amy Min Yang	GCMSM	01/30/15 10:30	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Received: 01/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36526-2.11	GCMSM	Amy Min Yang	02/02/15 11:10	Unload from Instrument
MC36526-2.11	Amy Min Yang	VOC Ref #10	02/02/15 11:22	Return to Storage
MC36526-2.11	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.15	VOC Ref #10	Amy Min Yang	01/30/15 10:30	Retrieve from Storage
MC36526-2.15	Amy Min Yang	GCMSM	01/30/15 10:30	Load on Instrument
MC36526-2.15	GCMSM	Amy Min Yang	02/02/15 11:10	Unload from Instrument
MC36526-2.15	Amy Min Yang	VOC Ref #10	02/02/15 11:22	Return to Storage
MC36526-2.15	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.19	VOC Ref #10	Anthony Franciosa	01/23/15 07:21	Retrieve from Storage
MC36526-2.19	Anthony Franciosa	GCAB	01/23/15 07:22	Load on Instrument
MC36526-2.19	GCAB	Anthony Franciosa	01/26/15 07:44	Unload from Instrument
MC36526-2.19	Anthony Franciosa	VOC Ref #10	01/26/15 07:45	Return to Storage
MC36526-2.19	Scott Parsick		04/15/15 12:23	Disposed
MC36526-2.21	VOC Ref #10	Jaime Maslowski	01/21/15 15:06	Retrieve from Storage
MC36526-2.21	Jaime Maslowski	VOC Ref #10	01/22/15 09:16	Return to Storage
MC36526-2.21	VOC Ref #10	Jaime Maslowski	01/30/15 11:30	Retrieve from Storage
MC36526-2.21	Jaime Maslowski	VOC Ref #10	02/03/15 10:27	Return to Storage
MC36526-2.21	Scott Parsick		04/15/15 12:23	Disposed
MC36526-3.3	Walk In Ref #9	Nicole Estey	01/22/15 19:24	Retrieve from Storage
MC36526-3.3	Nicole Estey	Walk In Ref #9	01/22/15 22:07	Return to Storage
MC36526-3.3	Walk In Ref #9	Alireza Zeighami	01/23/15 06:58	Retrieve from Storage
MC36526-3.3	Alireza Zeighami	Walk In Ref #9	01/23/15 07:53	Return to Storage
MC36526-3.3	Scott Parsick		04/15/15 12:23	Disposed
MC36526-3.4	VOC Ref #10	Amy Min Yang	01/30/15 10:30	Retrieve from Storage
MC36526-3.4	Amy Min Yang	GCMSM	01/30/15 10:30	Load on Instrument
MC36526-3.4	GCMSM	Amy Min Yang	02/02/15 11:10	Unload from Instrument
MC36526-3.4	Amy Min Yang	VOC Ref #10	02/02/15 11:22	Return to Storage
MC36526-3.4	Scott Parsick		04/15/15 12:23	Disposed
MC36526-3.8	VOC Ref #10	Jaime Maslowski	01/21/15 15:06	Retrieve from Storage
MC36526-3.8	Jaime Maslowski	VOC Ref #10	01/22/15 09:16	Return to Storage
MC36526-3.8	VOC Ref #10	Anthony Franciosa	01/23/15 07:21	Retrieve from Storage
MC36526-3.8	Anthony Franciosa	GCAB	01/23/15 07:22	Load on Instrument
MC36526-3.8	GCAB	Anthony Franciosa	01/26/15 07:44	Unload from Instrument
MC36526-3.8	Anthony Franciosa	VOC Ref #10	01/26/15 07:45	Return to Storage
MC36526-3.8	Scott Parsick		04/15/15 12:23	Disposed
MC36526-4.1	Walk In Ref #22	Forrest Thompson	01/22/15 14:42	Retrieve from Storage
MC36526-4.1	Forrest Thompson		03/17/15 21:18	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well
Received: 01/21/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36526-4.3	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36526-4.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36526-4.5	VOC Ref #2	Anthony Franciosa	01/23/15 07:21	Retrieve from Storage
MC36526-4.5	Anthony Franciosa	GCAB	01/23/15 07:21	Load on Instrument
MC36526-4.5	GCAB	Anthony Franciosa	01/26/15 07:44	Unload from Instrument
MC36526-4.5	Anthony Franciosa	VOC Ref #2	01/26/15 07:45	Return to Storage
MC36526-4.5	Scott Parsick		04/15/15 12:23	Disposed
MC36526-4.6	VOC Ref #2	Jaclyn Bergeron	01/30/15 10:12	Retrieve from Storage
MC36526-4.6	Jaclyn Bergeron	GCMSN	01/30/15 10:12	Load on Instrument
MC36526-4.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36526-4.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36526-4.6	Scott Parsick		04/15/15 12:23	Disposed
MC36526-5.1	VOC Ref #2	Jaclyn Bergeron	01/30/15 10:12	Retrieve from Storage
MC36526-5.1	Jaclyn Bergeron	GCMSN	01/30/15 10:12	Load on Instrument
MC36526-5.1	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36526-5.1	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36526-5.1	Scott Parsick		04/15/15 12:23	Disposed
MC36526-6.1	VOC Ref #2	Marc Tahtamoni	01/25/15 14:38	Retrieve from Storage
MC36526-6.1	Marc Tahtamoni		02/12/15 20:37	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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5379-MB	G143334.D	1	01/23/15	JM	n/a	n/a	MSG5379

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

MC36526-1, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

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

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-MB	N94572.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-MB	N94572.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-MB	N94572.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	67-134%
2037-26-5	Toluene-D8	97%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-MB	M71394.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/kg	
107-02-8	Acrolein	ND	25	8.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	2.7	ug/kg	
71-43-2	Benzene	ND	0.50	0.34	ug/kg	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.21	ug/kg	
75-25-2	Bromoform	ND	2.0	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.24	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.75	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.76	ug/kg	
67-66-3	Chloroform	ND	2.0	0.17	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.56	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.19	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	0.27	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.35	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.81	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	0.33	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	0.56	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-MB	M71394.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.26	ug/kg	
123-91-1	1,4-Dioxane	ND	25	20	ug/kg	
97-63-2	Ethyl methacrylate	ND	5.0	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.69	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	0.57	ug/kg	
591-78-6	2-Hexanone	ND	10	0.76	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.17	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.54	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.40	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.15	ug/kg	
100-42-5	Styrene	ND	5.0	0.17	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.31	ug/kg	
108-88-3	Toluene	ND	5.0	0.21	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.57	ug/kg	
79-01-6	Trichloroethene	ND	2.0	0.24	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.29	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	5.0	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.91	ug/kg	
	m,p-Xylene	ND	2.0	0.44	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.22	ug/kg	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-MB	M71394.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	63-139%
2037-26-5	Toluene-D8	95%	61-136%
460-00-4	4-Bromofluorobenzene	91%	51-140%

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

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5383-MB	G143488.D	1	01/30/15	JM	n/a	n/a	MSG5383

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

MC36526-2

CAS No.	Compound	Result	RL	MDL	Units	Q
110-75-8	2-Chloroethyl vinyl ether	ND	250	63	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	63-139%
2037-26-5	Toluene-D8	103%	61-136%
460-00-4	4-Bromofluorobenzene	99%	51-140%

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

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-BS	N94570.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.2	84	10-147
107-02-8	Acrolein	250	173	69	10-170
107-13-1	Acrylonitrile	50	32.3	65	51-154
71-43-2	Benzene	50	48.2	96	74-127
108-86-1	Bromobenzene	50	51.6	103	77-124
74-97-5	Bromochloromethane	50	52.5	105	76-128
75-27-4	Bromodichloromethane	50	53.0	106	68-156
75-25-2	Bromoform	50	54.6	109	70-134
74-83-9	Bromomethane	50	49.6	99	14-180
78-93-3	2-Butanone (MEK)	50	48.1	96	23-148
104-51-8	n-Butylbenzene	50	55.2	110	75-140
135-98-8	sec-Butylbenzene	50	47.0	94	74-139
98-06-6	tert-Butylbenzene	50	46.5	93	71-141
75-15-0	Carbon disulfide	50	42.6	85	45-156
56-23-5	Carbon tetrachloride	50	52.6	105	67-152
108-90-7	Chlorobenzene	50	52.2	104	76-121
75-00-3	Chloroethane	50	45.1	90	54-177
110-75-8	2-Chloroethyl vinyl ether	50	49.5	99	36-178
67-66-3	Chloroform	50	48.5	97	68-139
74-87-3	Chloromethane	50	37.7	75	33-171
95-49-8	o-Chlorotoluene	50	46.2	92	76-131
106-43-4	p-Chlorotoluene	50	46.9	94	76-130
124-48-1	Dibromochloromethane	50	56.3	113	82-130
95-50-1	1,2-Dichlorobenzene	50	51.1	102	81-127
541-73-1	1,3-Dichlorobenzene	50	50.5	101	80-124
106-46-7	1,4-Dichlorobenzene	50	51.9	104	78-124
75-71-8	Dichlorodifluoromethane	50	45.9	92	10-185
75-34-3	1,1-Dichloroethane	50	44.3	89	69-140
107-06-2	1,2-Dichloroethane	50	46.7	93	64-149
75-35-4	1,1-Dichloroethene	50	46.4	93	58-142
156-59-2	cis-1,2-Dichloroethene	50	49.6	99	68-129
156-60-5	trans-1,2-Dichloroethene	50	48.4	97	61-133
78-87-5	1,2-Dichloropropane	50	49.5	99	74-135
142-28-9	1,3-Dichloropropane	50	55.5	111	76-121
594-20-7	2,2-Dichloropropane	50	49.2	98	62-157
563-58-6	1,1-Dichloropropene	50	45.9	92	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-BS	N94570.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	56.7	113	75-138
10061-02-6	trans-1,3-Dichloropropene	50	45.4	91	70-150
123-91-1	1,4-Dioxane	250	196	78	52-165
97-63-2	Ethyl methacrylate	50	50.2	100	62-138
100-41-4	Ethylbenzene	50	53.7	107	75-129
87-68-3	Hexachlorobutadiene	50	59.9	120	59-150
591-78-6	2-Hexanone	50	49.5	99	28-137
98-82-8	Isopropylbenzene	50	47.2	94	76-138
99-87-6	p-Isopropyltoluene	50	53.4	107	77-137
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	39.6	79	48-153
74-95-3	Methylene bromide	50	48.4	97	74-134
75-09-2	Methylene chloride	50	43.7	87	62-134
91-20-3	Naphthalene	50	44.5	89	32-196
103-65-1	n-Propylbenzene	50	46.7	93	74-138
100-42-5	Styrene	50	62.6	125	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	60.2	120	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	48.2	96	64-132
127-18-4	Tetrachloroethene	50	58.3	117	68-133
108-88-3	Toluene	50	51.4	103	75-134
87-61-6	1,2,3-Trichlorobenzene	50	43.2	86	51-169
120-82-1	1,2,4-Trichlorobenzene	50	45.1	90	62-146
71-55-6	1,1,1-Trichloroethane	50	50.1	100	66-152
79-00-5	1,1,2-Trichloroethane	50	51.8	104	70-138
79-01-6	Trichloroethene	50	51.7	103	70-131
75-69-4	Trichlorofluoromethane	50	48.4	97	43-168
96-18-4	1,2,3-Trichloropropane	50	47.5	95	61-134
95-63-6	1,2,4-Trimethylbenzene	50	49.5	99	76-133
108-67-8	1,3,5-Trimethylbenzene	50	51.1	102	72-131
108-05-4	Vinyl Acetate	50	84.5	169	10-200
75-01-4	Vinyl chloride	50	42.3	85	32-182
	m,p-Xylene	100	115	115	74-129
95-47-6	o-Xylene	50	57.8	116	77-127
1330-20-7	Xylene (total)	150	173	115	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3489-BS	N94570.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	67-134%
2037-26-5	Toluene-D8	101%	79-121%
460-00-4	4-Bromofluorobenzene	91%	71-133%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5379-BS	G143331.D	1	01/23/15	JM	n/a	n/a	MSG5379
MSG5379-BSD	G143332.D	1	01/23/15	JM	n/a	n/a	MSG5379

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

MC36526-1, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
110-75-8	2-Chloroethyl vinyl ether	2500	2460	98	2280	91	8	32-166/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	104%	63-139%
2037-26-5	Toluene-D8	103%	104%	61-136%
460-00-4	4-Bromofluorobenzene	99%	99%	51-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-BS	M71391.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MSM2540-BSD	M71392.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	40.3	81	42.4	85	5	29-175/25
107-02-8	Acrolein	250	280	112	387	155	32* [a]	10-200/25
107-13-1	Acrylonitrile	50	39.6	79	41.9	84	6	24-157/25
71-43-2	Benzene	50	41.9	84	46.2	92	10	72-123/25
108-86-1	Bromobenzene	50	44.2	88	50.5	101	13	74-126/25
74-97-5	Bromochloromethane	50	44.2	88	49.7	99	12	76-134/25
75-27-4	Bromodichloromethane	50	43.4	87	46.9	94	8	78-137/25
75-25-2	Bromoform	50	52.8	106	56.4	113	7	61-155/25
74-83-9	Bromomethane	50	44.8	90	43.3	87	3	42-157/25
78-93-3	2-Butanone (MEK)	50	35.6	71	40.7	81	13	33-166/25
104-51-8	n-Butylbenzene	50	41.6	83	46.3	93	11	66-125/25
135-98-8	sec-Butylbenzene	50	41.1	82	48.5	97	17	69-123/25
98-06-6	tert-Butylbenzene	50	38.8	78	47.2	94	20	66-125/25
75-15-0	Carbon disulfide	50	43.6	87	47.2	94	8	62-127/25
56-23-5	Carbon tetrachloride	50	43.9	88	46.5	93	6	69-142/25
108-90-7	Chlorobenzene	50	47.2	94	53.0	106	12	72-118/25
75-00-3	Chloroethane	50	50.1	100	48.6	97	3	53-161/25
67-66-3	Chloroform	50	40.5	81	45.3	91	11	72-132/25
74-87-3	Chloromethane	50	47.2	94	44.3	89	6	39-158/25
95-49-8	o-Chlorotoluene	50	39.9	80	46.1	92	14	67-119/25
106-43-4	p-Chlorotoluene	50	40.4	81	46.1	92	13	69-122/25
124-48-1	Dibromochloromethane	50	50.8	102	55.8	112	9	74-142/25
95-50-1	1,2-Dichlorobenzene	50	44.8	90	49.1	98	9	70-124/25
541-73-1	1,3-Dichlorobenzene	50	43.6	87	48.6	97	11	71-122/25
106-46-7	1,4-Dichlorobenzene	50	43.1	86	47.6	95	10	73-126/25
75-71-8	Dichlorodifluoromethane	50	51.1	102	48.8	98	5	30-161/25
75-34-3	1,1-Dichloroethane	50	43.3	87	49.8	100	14	65-152/25
107-06-2	1,2-Dichloroethane	50	41.8	84	45.0	90	7	71-137/25
75-35-4	1,1-Dichloroethene	50	46.8	94	52.4	105	11	68-135/25
156-59-2	cis-1,2-Dichloroethene	50	44.0	88	49.5	99	12	71-132/25
156-60-5	trans-1,2-Dichloroethene	50	46.2	92	51.6	103	11	72-140/25
78-87-5	1,2-Dichloropropane	50	45.1	90	48.4	97	7	71-125/25
142-28-9	1,3-Dichloropropane	50	43.9	88	49.3	99	12	74-124/25
594-20-7	2,2-Dichloropropane	50	38.5	77	41.0	82	6	61-151/25
563-58-6	1,1-Dichloropropene	50	43.0	86	49.4	99	14	71-131/25
10061-01-5	cis-1,3-Dichloropropene	50	44.2	88	47.3	95	7	73-127/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-BS	M71391.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MSM2540-BSD	M71392.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	44.5	89	47.2	94	6	76-141/25
123-91-1	1,4-Dioxane	250	211	84	219	88	4	53-165/25
97-63-2	Ethyl methacrylate	50	36.7	73	37.9	76	3	68-133/25
100-41-4	Ethylbenzene	50	44.5	89	49.4	99	10	73-123/25
87-68-3	Hexachlorobutadiene	50	47.7	95	52.6	105	10	57-149/25
591-78-6	2-Hexanone	50	39.0	78	40.9	82	5	38-157/25
98-82-8	Isopropylbenzene	50	40.3	81	47.4	95	16	69-123/25
99-87-6	p-Isopropyltoluene	50	42.2	84	48.1	96	13	68-128/25
1634-04-4	Methyl Tert Butyl Ether	50	40.1	80	40.9	82	2	68-134/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	39.4	79	40.0	80	2	55-147/25
74-95-3	Methylene bromide	50	43.8	88	46.4	93	6	77-131/25
75-09-2	Methylene chloride	50	42.9	86	46.3	93	8	71-139/25
91-20-3	Naphthalene	50	48.3	97	53.9	108	11	65-140/25
103-65-1	n-Propylbenzene	50	40.8	82	47.0	94	14	65-117/25
100-42-5	Styrene	50	48.1	96	51.9	104	8	74-125/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.0	100	54.5	109	9	73-140/25
79-34-5	1,1,2,2-Tetrachloroethane	50	40.8	82	44.8	90	9	66-138/25
127-18-4	Tetrachloroethene	50	46.6	93	53.7	107	14	67-130/25
108-88-3	Toluene	50	43.4	87	46.9	94	8	76-129/25
87-61-6	1,2,3-Trichlorobenzene	50	46.6	93	51.5	103	10	62-145/25
120-82-1	1,2,4-Trichlorobenzene	50	46.5	93	49.8	100	7	63-140/25
71-55-6	1,1,1-Trichloroethane	50	41.2	82	44.4	89	7	68-135/25
79-00-5	1,1,2-Trichloroethane	50	42.7	85	43.9	88	3	76-129/25
79-01-6	Trichloroethene	50	45.5	91	51.2	102	12	66-126/25
75-69-4	Trichlorofluoromethane	50	45.9	92	46.4	93	1	56-143/25
96-18-4	1,2,3-Trichloropropane	50	39.6	79	44.0	88	11	64-134/25
95-63-6	1,2,4-Trimethylbenzene	50	41.8	84	47.5	95	13	69-123/25
108-67-8	1,3,5-Trimethylbenzene	50	39.8	80	46.4	93	15	69-124/25
108-05-4	Vinyl Acetate	50	27.1	54	30.2	60	11	47-136/25
75-01-4	Vinyl chloride	50	46.6	93	45.2	90	3	44-163/25
	m,p-Xylene	100	92.2	92	102	102	10	72-121/25
95-47-6	o-Xylene	50	46.8	94	51.3	103	9	73-121/25
1330-20-7	Xylene (total)	150	139	93	153	102	10	73-120/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2540-BS	M71391.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MSM2540-BSD	M71392.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	97%	63-139%
2037-26-5	Toluene-D8	97%	93%	61-136%
460-00-4	4-Bromofluorobenzene	88%	90%	51-140%

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5383-BS	G143484.D	1	01/30/15	JM	n/a	n/a	MSG5383
MSG5383-BSD	G143486.D	1	01/30/15	JM	n/a	n/a	MSG5383

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

MC36526-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
110-75-8	2-Chloroethyl vinyl ether	2500	3310	132	2380	95	33* [a]	32-166/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	107%	103%	63-139%
2037-26-5	Toluene-D8	104%	105%	61-136%
460-00-4	4-Bromofluorobenzene	98%	99%	51-140%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36554-4MS	G143336.D	1	01/23/15	JM	n/a	n/a	MSG5379
MC36554-4MSD	G143337.D	1	01/23/15	JM	n/a	n/a	MSG5379
MC36554-4	G143335.D	1	01/23/15	JM	n/a	n/a	MSG5379

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

MC36526-1, MC36526-7

CAS No.	Compound	MC36554-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
110-75-8	2-Chloroethyl vinyl ether	ND		5330	5170	97	5330	5910	111	13	10-160/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36554-4	Limits
1868-53-7	Dibromofluoromethane	103%	107%	105%	63-139%
2037-26-5	Toluene-D8	103%	103%	101%	61-136%
460-00-4	4-Bromofluorobenzene	99%	100%	101%	51-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36526-2MS	M71398.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2MSD	M71399.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2	M71395.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		51.1	33.2	65	52.8	33.7	64	1	10-200/30
107-02-8	Acrolein	ND		255	244	96	264	260	98	6	10-185/30
107-13-1	Acrylonitrile	ND		51.1	52.7	103	52.8	49.2	93	7	36-156/30
71-43-2	Benzene	ND		51.1	45.7	89	52.8	45.4	86	1	34-139/30
108-86-1	Bromobenzene	ND		51.1	42.2	83	52.8	41.0	78	3	10-157/30
74-97-5	Bromochloromethane	ND		51.1	54.8	107	52.8	51.8	98	6	46-143/30
75-27-4	Bromodichloromethane	ND		51.1	50.7	99	52.8	49.7	94	2	37-153/30
75-25-2	Bromoform	ND		51.1	62.9	123	52.8	66.2	125	5	20-168/30
74-83-9	Bromomethane	ND		51.1	32.8	64	52.8	37.7	71	14	31-147/30
78-93-3	2-Butanone (MEK)	ND		51.1	39.9	78	52.8	33.8	64	17	10-200/30
104-51-8	n-Butylbenzene	0.36	J	51.1	36.0	70	52.8	38.2	72	6	10-164/30
135-98-8	sec-Butylbenzene	ND		51.1	37.4	73	52.8	40.2	76	7	15-160/30
98-06-6	tert-Butylbenzene	ND		51.1	36.1	71	52.8	38.9	74	7	16-158/30
75-15-0	Carbon disulfide	0.60	J	51.1	50.1	97	52.8	48.6	91	3	21-159/30
56-23-5	Carbon tetrachloride	ND		51.1	48.2	94	52.8	46.9	89	3	37-154/30
108-90-7	Chlorobenzene	ND		51.1	48.4	95	52.8	47.1	89	3	20-150/30
75-00-3	Chloroethane	ND		51.1	37.0	72	52.8	42.5	80	14	30-173/30
67-66-3	Chloroform	ND		51.1	46.8	92	52.8	45.2	86	3	44-138/30
74-87-3	Chloromethane	ND		51.1	31.7	62	52.8	36.1	68	13	25-157/30
95-49-8	o-Chlorotoluene	ND		51.1	37.3	73	52.8	36.0	68	4	10-160/30
106-43-4	p-Chlorotoluene	ND		51.1	36.7	72	52.8	35.1	66	4	10-153/30
124-48-1	Dibromochloromethane	ND		51.1	63.4	124	52.8	54.3	103	15	32-157/30
95-50-1	1,2-Dichlorobenzene	ND		51.1	39.4	77	52.8	37.9	72	4	10-160/30
541-73-1	1,3-Dichlorobenzene	ND		51.1	38.4	75	52.8	36.7	70	5	10-156/30
106-46-7	1,4-Dichlorobenzene	ND		51.1	37.6	74	52.8	35.6	67	5	10-159/30
75-71-8	Dichlorodifluoromethane	ND		51.1	36.2	71	52.8	41.8	79	14	10-169/30
75-34-3	1,1-Dichloroethane	ND		51.1	49.7	97	52.8	48.9	93	2	45-145/30
107-06-2	1,2-Dichloroethane	ND		51.1	46.4	91	52.8	45.8	87	1	40-144/30
75-35-4	1,1-Dichloroethene	ND		51.1	55.2	108	52.8	54.3	103	2	35-153/30
156-59-2	cis-1,2-Dichloroethene	ND		51.1	51.2	100	52.8	49.5	94	3	33-146/30
156-60-5	trans-1,2-Dichloroethene	ND		51.1	53.4	105	52.8	51.9	98	3	35-147/30
78-87-5	1,2-Dichloropropane	ND		51.1	51.0	100	52.8	48.8	92	4	38-146/30
142-28-9	1,3-Dichloropropane	ND		51.1	50.7	99	52.8	49.0	93	3	31-146/30
594-20-7	2,2-Dichloropropane	ND		51.1	46.1	90	52.8	41.8	79	10	26-159/30
563-58-6	1,1-Dichloropropene	ND		51.1	50.6	99	52.8	49.3	93	3	40-146/30
10061-01-5	cis-1,3-Dichloropropene	ND		51.1	48.9	96	52.8	48.6	92	1	29-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36526-2MS	M71398.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2MSD	M71399.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2	M71395.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		51.1	50.8	99	52.8	49.2	93	3	22-163/30
123-91-1	1,4-Dioxane	ND		255	312	122	264	320	121	3	18-200/30
97-63-2	Ethyl methacrylate	ND		51.1	41.6	81	52.8	42.7	81	3	21-162/30
100-41-4	Ethylbenzene	ND		51.1	44.8	88	52.8	43.6	83	3	24-146/30
87-68-3	Hexachlorobutadiene	ND		51.1	38.5	75	52.8	42.6	81	10	10-167/30
591-78-6	2-Hexanone	ND		51.1	30.5	60	52.8	33.6	64	10	10-177/30
98-82-8	Isopropylbenzene	ND		51.1	39.1	77	52.8	39.6	75	1	20-158/30
99-87-6	p-Isopropyltoluene	0.35	J	51.1	37.3	72	52.8	39.3	74	5	12-161/30
1634-04-4	Methyl Tert Butyl Ether	ND		51.1	50.1	98	52.8	48.2	91	4	47-138/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		51.1	56.4	110	52.8	54.4	103	4	34-166/30
74-95-3	Methylene bromide	ND		51.1	51.9	102	52.8	50.7	96	2	39-147/30
75-09-2	Methylene chloride	ND		51.1	48.3	95	52.8	47.9	91	1	36-147/30
91-20-3	Naphthalene	0.98	J	51.1	48.1	92	52.8	44.6	83	8	10-188/30
103-65-1	n-Propylbenzene	ND		51.1	38.0	74	52.8	38.3	73	1	10-167/30
100-42-5	Styrene	ND		51.1	47.1	92	52.8	44.8	85	5	10-165/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		51.1	50.9	100	52.8	51.5	98	1	32-154/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		51.1	48.8	96	52.8	47.0	89	4	16-161/30
127-18-4	Tetrachloroethene	ND		51.1	48.8	96	52.8	48.3	91	1	30-148/30
108-88-3	Toluene	0.46	J	51.1	46.6	90	52.8	45.6	85	2	30-147/30
87-61-6	1,2,3-Trichlorobenzene	ND		51.1	34.6	68	52.8	33.8	64	2	10-169/30
120-82-1	1,2,4-Trichlorobenzene	ND		51.1	34.7	68	52.8	35.8	68	3	10-170/30
71-55-6	1,1,1-Trichloroethane	ND		51.1	46.7	91	52.8	45.9	87	2	42-148/30
79-00-5	1,1,2-Trichloroethane	ND		51.1	52.2	102	52.8	47.9	91	9	35-150/30
79-01-6	Trichloroethene	ND		51.1	50.6	99	52.8	50.4	95	0	22-163/30
75-69-4	Trichlorofluoromethane	ND		51.1	32.6	64	52.8	38.0	72	15	32-146/30
96-18-4	1,2,3-Trichloropropane	ND		51.1	49.8	98	52.8	47.5	90	5	23-154/30
95-63-6	1,2,4-Trimethylbenzene	ND		51.1	36.5	71	52.8	37.4	71	2	10-173/30
108-67-8	1,3,5-Trimethylbenzene	ND		51.1	34.9	68	52.8	36.0	68	3	10-161/30
108-05-4	Vinyl Acetate	ND		51.1	29.9	59	52.8	28.1	53	6	10-187/30
75-01-4	Vinyl chloride	ND		51.1	33.3	65	52.8	38.3	73	14	10-182/30
	m,p-Xylene	ND		102	89.9	88	106	87.8	83	2	25-147/30
95-47-6	o-Xylene	0.30	J	51.1	45.9	89	52.8	44.9	84	2	24-147/30
1330-20-7	Xylene (total)	0.30	J	153	136	89	158	133	84	2	25-147/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36526-2MS	M71398.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2MSD	M71399.D	1	01/30/15	AMY	n/a	n/a	MSM2540
MC36526-2	M71395.D	1	01/30/15	AMY	n/a	n/a	MSM2540

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	105%	65-141%
2037-26-5	Toluene-D8	97%	97%	95%	65-129%
460-00-4	4-Bromofluorobenzene	85%	88%	93%	63-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36526-2MS	G143496.D	1	01/30/15	JM	n/a	n/a	MSG5383
MC36526-2MSD	G143497.D	1	01/30/15	JM	n/a	n/a	MSG5383
MC36526-2	G143490.D	1	01/30/15	JM	n/a	n/a	MSG5383

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

MC36526-2

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
110-75-8	2-Chloroethyl vinyl ether	ND		5940	7510	126	5940	6210	105	19	10-160/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	104%	63-139%
2037-26-5	Toluene-D8	104%	103%	103%	61-136%
460-00-4	4-Bromofluorobenzene	99%	100%	99%	51-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36550-2MS	N94586.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2MSD	N94587.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2	N94577.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	MC36550-2 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	28.2	56	50	25.8	52	9	10-135/30
107-02-8	Acrolein	ND		250	195	78	250	199	80	2	10-165/30
107-13-1	Acrylonitrile	ND		50	45.0	90	50	46.0	92	2	43-165/30
71-43-2	Benzene	ND		50	47.6	95	50	47.2	94	1	69-136/30
108-86-1	Bromobenzene	ND		50	49.4	99	50	51.4	103	4	74-127/30
74-97-5	Bromochloromethane	ND		50	53.6	107	50	53.2	106	1	73-134/30
75-27-4	Bromodichloromethane	ND		50	52.5	105	50	52.1	104	1	63-163/30
75-25-2	Bromoform	ND		50	61.3	123	50	64.4	129	5	61-140/30
74-83-9	Bromomethane	ND		50	38.7	77	50	42.7	85	10	10-175/30
78-93-3	2-Butanone (MEK)	ND		50	38.9	78	50	40.3	81	4	19-130/30
104-51-8	n-Butylbenzene	ND		50	51.0	102	50	53.0	106	4	65-147/30
135-98-8	sec-Butylbenzene	ND		50	44.6	89	50	46.1	92	3	72-143/30
98-06-6	tert-Butylbenzene	ND		50	43.0	86	50	44.3	89	3	66-146/30
75-15-0	Carbon disulfide	ND		50	44.3	89	50	43.9	88	1	33-170/30
56-23-5	Carbon tetrachloride	ND		50	54.3	109	50	54.4	109	0	61-163/30
108-90-7	Chlorobenzene	ND		50	52.1	104	50	53.7	107	3	73-127/30
75-00-3	Chloroethane	ND		50	41.7	83	50	41.4	83	1	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	46.5	93	50	45.9	92	1	10-200/30
67-66-3	Chloroform	ND		50	47.4	95	50	47.1	94	1	65-146/30
74-87-3	Chloromethane	ND		50	29.7	59	50	32.5	65	9	23-176/30
95-49-8	o-Chlorotoluene	ND		50	42.9	86	50	44.0	88	3	67-142/30
106-43-4	p-Chlorotoluene	ND		50	44.4	89	50	45.6	91	3	70-137/30
124-48-1	Dibromochloromethane	ND		50	56.3	113	50	57.9	116	3	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		50	50.5	101	50	53.1	106	5	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		50	48.3	97	50	50.2	100	4	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.0	98	50	51.2	102	4	75-126/30
75-71-8	Dichlorodifluoromethane	ND		50	40.4	81	50	41.4	83	2	10-184/30
75-34-3	1,1-Dichloroethane	ND		50	42.3	85	50	41.6	83	2	66-148/30
107-06-2	1,2-Dichloroethane	ND		50	46.5	93	50	46.7	93	0	59-157/30
75-35-4	1,1-Dichloroethene	ND		50	46.2	92	50	46.0	92	0	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		50	48.7	97	50	48.7	97	0	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		50	48.3	97	50	47.8	96	1	57-142/30
78-87-5	1,2-Dichloropropane	ND		50	46.5	93	50	45.9	92	1	70-142/30
142-28-9	1,3-Dichloropropane	ND		50	55.1	110	50	56.8	114	3	73-126/30
594-20-7	2,2-Dichloropropane	ND		50	45.7	91	50	44.5	89	3	45-168/30
563-58-6	1,1-Dichloropropene	ND		50	43.9	88	50	44.3	89	1	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36550-2MS	N94586.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2MSD	N94587.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2	N94577.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Compound	MC36550-2 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	57.7	115	50	57.7	115	0	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.7	99	50	48.7	97	2	64-153/30
123-91-1	1,4-Dioxane	ND		250	255	102	250	286	114	11	38-165/30
97-63-2	Ethyl methacrylate	ND		50	60.4	121	50	61.5	123	2	54-149/30
100-41-4	Ethylbenzene	ND		50	51.3	103	50	53.1	106	3	67-141/30
87-68-3	Hexachlorobutadiene	ND		50	62.2	124	50	67.2	134	8	52-152/30
591-78-6	2-Hexanone	ND		50	39.6	79	50	41.8	84	5	25-118/30
98-82-8	Isopropylbenzene	ND		50	44.6	89	50	45.3	91	2	71-144/30
99-87-6	p-Isopropyltoluene	ND		50	49.9	100	50	51.5	103	3	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	56.4	113	50	55.0	110	3	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	50.6	101	50	50.7	101	0	46-158/30
74-95-3	Methylene bromide	ND		50	52.8	106	50	52.5	105	1	70-141/30
75-09-2	Methylene chloride	ND		50	46.8	94	50	46.3	93	1	58-143/30
91-20-3	Naphthalene	ND		50	59.7	119	50	66.3	133	10	19-200/30
103-65-1	n-Propylbenzene	ND		50	42.7	85	50	43.8	88	3	67-145/30
100-42-5	Styrene	ND		50	58.5	117	50	61.7	123	5	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	60.3	121	50	62.0	124	3	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.3	111	50	56.6	113	2	61-137/30
127-18-4	Tetrachloroethene	ND		50	53.9	108	50	56.4	113	5	64-139/30
108-88-3	Toluene	ND		50	51.4	103	50	51.4	103	0	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	57.1	114	50	63.2	126	10	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.2	106	50	58.3	117	9	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		50	50.3	101	50	49.4	99	2	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		50	55.6	111	50	56.3	113	1	65-145/30
79-01-6	Trichloroethene	ND		50	51.4	103	50	51.4	103	0	64-139/30
75-69-4	Trichlorofluoromethane	ND		50	46.8	94	50	46.3	93	1	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		50	55.4	111	50	56.7	113	2	53-137/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	46.9	94	50	48.6	97	4	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	48.4	97	50	49.8	100	3	68-135/30
108-05-4	Vinyl Acetate	ND		50	87.2	174	50	85.0	170	3	10-200/30
75-01-4	Vinyl chloride	ND		50	35.7	71	50	33.1	66	8	25-187/30
	m,p-Xylene	ND		100	106	106	100	110	110	4	67-138/30
95-47-6	o-Xylene	ND		50	53.3	107	50	55.7	111	4	72-135/30
1330-20-7	Xylene (total)	ND		150	160	107	150	166	111	4	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36550-2MS	N94586.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2MSD	N94587.D	1	01/30/15	JB	n/a	n/a	MSN3489
MC36550-2	N94577.D	1	01/30/15	JB	n/a	n/a	MSN3489

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

MC36526-4, MC36526-5

CAS No.	Surrogate Recoveries	MS	MSD	MC36550-2	Limits
1868-53-7	Dibromofluoromethane	98%	95%	98%	67-134%
2037-26-5	Toluene-D8	99%	97%	103%	79-121%
460-00-4	4-Bromofluorobenzene	87%	87%	98%	71-133%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSG5379-CC5370	**Injection Date:**	01/23/15
Lab File ID:	G143329.D	**Injection Time:**	09:01
Instrument ID:	GCMSG	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	146957	5.09	249392	6.21	136820	9.54	142526	12.16	92381	3.21
Upper Limit [a]	293914	5.59	498784	6.71	273640	10.04	285052	12.66	184762	3.71
Lower Limit [b]	73479	4.59	124696	5.71	68410	9.04	71263	11.66	46191	2.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSG5379-BS	148864	5.10	252048	6.21	137628	9.54	141550	12.16	77600	3.17
MSG5379-BSD	153260	5.09	260750	6.21	142830	9.54	147718	12.16	90659	3.20
MSG5379-MB	151604	5.09	255832	6.21	141591	9.54	149152	12.16	96223	3.21
MC36554-4	128601	5.09	223330	6.21	129849	9.54	129876	12.16	89863	3.20
MC36554-4MS	154507	5.09	263070	6.21	154458	9.54	152080	12.16	98806	3.17
MC36554-4MSD	131507	5.09	227852	6.21	133729	9.54	131781	12.16	87063	3.17
ZZZZZZ	135041	5.08	234822	6.20	127620	9.54	135273	12.16	90421	3.27
ZZZZZZ	152867	5.09	258735	6.21	141838	9.54	147683	12.16	102461	3.20
ZZZZZZ	147847	5.09	250704	6.21	139389	9.54	146134	12.16	101588	3.21
ZZZZZZ	152083	5.09	257738	6.21	141904	9.54	144396	12.16	81313	3.19
ZZZZZZ	144457	5.09	247018	6.21	136925	9.54	142690	12.16	97194	3.21
ZZZZZZ	166270	5.10	279753	6.21	153330	9.54	152718	12.16	74226	3.18
ZZZZZZ	130362	5.09	228263	6.21	125840	9.54	130266	12.16	88641	3.20
ZZZZZZ	162527	5.09	274186	6.21	150354	9.54	152210	12.16	83059	3.19
ZZZZZZ	131674	5.09	226835	6.21	135152	9.54	130203	12.16	74144	3.18
ZZZZZZ	148623	5.09	252275	6.21	142239	9.54	146956	12.16	92901	3.20
ZZZZZZ	136738	5.09	231459	6.21	127385	9.54	128575	12.16	83449	3.21
MC36526-1	148045	5.09	251869	6.21	139197	9.54	147700	12.16	106565	3.23
MC36526-7	150256	5.10	254019	6.21	139610	9.54	138281	12.16	62385	3.17
ZZZZZZ	134148	5.09	230832	6.21	194007	9.56	157782	12.17	95423	3.25
ZZZZZZ	163354	5.10	274659	6.21	151619	9.54	152668	12.17	65131	3.17

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSG5383-CC5370	**Injection Date:**	01/30/15
Lab File ID:	G143482.D	**Injection Time:**	08:54
Instrument ID:	GCMSG	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	201977	5.09	336573	6.21	185841	9.54	196364	12.16	151476	3.23
Upper Limit [a]	403954	5.59	673146	6.71	371682	10.04	392728	12.66	302952	3.73
Lower Limit [b]	100989	4.59	168287	5.71	92921	9.04	98182	11.66	75738	2.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSG5383-BS	168549	5.09	291003	6.21	160524	9.54	168004	12.16	123607	3.22
MSG5383-BSD	228583	5.09	378513	6.21	208300	9.54	212092	12.16	106239	3.19
MSG5383-MB	196712	5.09	330759	6.21	182787	9.54	191789	12.16	132039	3.21
ZZZZZZ	211499	5.08	354113	6.20	193465	9.54	207614	12.16	132068	3.26
MC36526-2	182719	5.09	309579	6.21	171069	9.54	177928	12.16	132839	3.21
MC36643-6	228085	5.09	380179	6.21	210973	9.54	216389	12.16	143746	3.22
ZZZZZZ	168137	5.09	281816	6.21	155517	9.54	159949	12.16	119592	3.21
ZZZZZZ	210824	5.09	353595	6.21	201667	9.54	214721	12.17	140879	3.19
MC36526-2MS	190138	5.09	322317	6.21	180053	9.54	183238	12.16	144410	3.21
MC36526-2MSD	222865	5.09	374719	6.21	205747	9.54	210416	12.16	145913	3.20
MC36643-6MS	183777	5.09	315838	6.21	172801	9.54	177738	12.16	134814	3.21
MC36643-6MSD	215810	5.09	367058	6.21	204033	9.54	210476	12.16	142155	3.20
ZZZZZZ	196363	5.09	329284	6.21	183334	9.54	189958	12.16	129759	3.20
ZZZZZZ	228666	5.09	376208	6.21	207132	9.54	215048	12.16	137435	3.19
ZZZZZZ	167405	5.09	284410	6.21	157444	9.54	162779	12.16	116878	3.20
ZZZZZZ	219472	5.09	367778	6.21	203962	9.54	211532	12.16	145375	3.20
ZZZZZZ	188814	5.09	317022	6.21	176989	9.54	183723	12.16	140418	3.21
ZZZZZZ	209219	5.09	353986	6.21	198907	9.54	207660	12.16	148740	3.21
ZZZZZZ	191550	5.09	323995	6.21	180899	9.54	182079	12.16	131060	3.20
ZZZZZZ	214447	5.09	361596	6.21	202492	9.54	214217	12.16	151451	3.21
ZZZZZZ	215734	5.09	361122	6.21	200233	9.54	206721	12.16	138141	3.19
ZZZZZZ	212836	5.09	354105	6.21	198207	9.54	212258	12.16	162149	3.23

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSM2540-CC2495	**Injection Date:**	01/30/15
Lab File ID:	M71390.D	**Injection Time:**	08:54
Instrument ID:	GCMSM	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	133742	9.34	214242	10.22	93120	13.50	109402	16.06	41831	6.85
Upper Limit [a]	267484	9.84	428484	10.72	186240	14.00	218804	16.56	83662	7.35
Lower Limit [b]	66871	8.84	107121	9.72	46560	13.00	54701	15.56	20916	6.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSM2540-BS	126747	9.34	197408	10.22	90308	13.50	112936	16.06	37570	6.84
MSM2540-BSD	138997	9.34	219098	10.22	93774	13.50	110254	16.06	41152	6.85
MSM2540-MB	128142	9.34	196286	10.22	83981	13.50	103005	16.06	37537	6.85
MC36526-2	133920	9.34	211419	10.22	93442	13.50	120933	16.06	67662	6.84
MC36526-1	132330	9.34	208321	10.22	95748	13.50	124374	16.06	74053	6.84
MC36526-7	142388	9.34	221935	10.22	101689	13.50	125755	16.06	79301	6.85
MC36526-2MS	138481	9.34	225454	10.22	106416	13.50	135526	16.06	76190	6.84
MC36526-2MSD	143668	9.34	228220	10.22	106632	13.50	132987	16.06	76977	6.84
ZZZZZZ	136790	9.34	213511	10.22	85304	13.50	94308	16.06	56053	6.84
ZZZZZZ	132780	9.34	207976	10.22	81293	13.50	73780	16.06	66077	6.85
ZZZZZZ	135543	9.34	210362	10.22	79933	13.50	81835	16.06	62623	6.85
ZZZZZZ	153893	9.34	246232	10.22	110252	13.50	140468	16.06	95118[c]	6.85
ZZZZZZ	37499[d]	9.34	58144[d]	10.22	27356[d]	13.51	34540[d]	16.06	21630	6.83
ZZZZZZ	148699	9.34	232049	10.22	100540	13.50	121693	16.06	54502	6.86
ZZZZZZ	144663	9.34	225004	10.22	97437	13.50	123076	16.06	56246	6.85
ZZZZZZ	133068	9.34	207708	10.22	91401	13.50	114809	16.06	53857	6.84
ZZZZZZ	148650	9.34	233101	10.22	101920	13.50	132011	16.06	91676[c]	6.84
ZZZZZZ	139737	9.34	221526	10.22	94287	13.50	106292	16.06	90364[c]	6.84
ZZZZZZ	146542	9.34	231608	10.22	103453	13.50	126190	16.06	79061	6.86
ZZZZZZ	137502	9.34	213387	10.22	92771	13.50	119791	16.06	74640	6.85
ZZZZZZ	135621	9.34	214339	10.22	97818	13.50	126742	16.06	78519	6.84
ZZZZZZ	136105	9.34	218702	10.22	95943	13.50	117789	16.06	92062[c]	6.84
ZZZZZZ	115422	9.34	176127	10.22	61923	13.50	48979*	16.06	84718[c]	6.84

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.
(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Internal Standard Area Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSN3489-CC3452	**Injection Date:**	01/30/15
Lab File ID:	N94570.D	**Injection Time:**	09:21
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	313373	9.11	447771	9.98	201520	13.23	197401	15.79	72374	6.72
Upper Limit [a]	626746	9.61	895542	10.48	403040	13.73	394802	16.29	144748	7.22
Lower Limit [b]	156687	8.61	223886	9.48	100760	12.73	98701	15.29	36187	6.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3489-BS	313373	9.11	447771	9.98	201520	13.23	197401	15.79	72374	6.72
MSN3489-MB	286103	9.12	399739	9.98	178612	13.24	146341	15.79	62416	6.75
ZZZZZZ	297321	9.12	411042	9.98	196601	13.23	160633	15.79	83643	6.74
MC36526-4	298134	9.11	433437	9.98	195041	13.24	163769	15.79	90488	6.74
MC36526-5	275976	9.11	394752	9.99	196468	13.24	161533	15.79	98702	6.74
ZZZZZZ	297746	9.12	433550	9.99	196461	13.24	159785	15.79	95142	6.74
MC36550-2	285448	9.11	402630	9.98	195447	13.24	163530	15.79	99920	6.74
ZZZZZZ	287939	9.11	426155	9.98	180643	13.24	158683	15.79	96479	6.74
ZZZZZZ	292611	9.12	401673	9.98	182154	13.23	165083	15.79	106380	6.74
ZZZZZZ	292610	9.12	425089	9.98	194857	13.24	166835	15.79	95374	6.74
ZZZZZZ	277543	9.12	396348	9.99	192912	13.24	160983	15.79	99081	6.74
ZZZZZZ	277809	9.12	419661	9.98	188231	13.24	160992	15.79	100971	6.74
ZZZZZZ	285486	9.11	416264	9.98	193655	13.24	165615	15.79	107198	6.74
ZZZZZZ	284614	9.12	388813	9.98	190930	13.24	158148	15.79	107391	6.73
MC36550-2MS	280528	9.12	402378	9.98	198035	13.23	193433	15.79	91459	6.71
MC36550-2MSD	280428	9.12	399349	9.98	190206	13.23	188638	15.79	94582	6.71
ZZZZZZ	272176	9.12	385662	9.98	179148	13.23	176819	15.79	96682	6.71
ZZZZZZ	278144	9.12	395258	9.98	179180	13.23	170925	15.79	89845	6.73
ZZZZZZ	278277	9.12	395911	9.99	179381	13.24	166516	15.79	95060	6.74
ZZZZZZ	275675	9.11	389973	9.99	184159	13.23	177986	15.79	92809	6.73
ZZZZZZ	295319	9.12	430405	9.98	190474	13.23	177577	15.79	87626	6.73
ZZZZZZ	287070	9.12	441727	9.98	206356	13.23	190363	15.79	108707	6.73
ZZZZZZ	292273	9.09	429183	9.96	195495	13.23	182435	15.79	102259	6.69

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36526-4	N94574.D	98	98	100
MC36526-5	N94575.D	95	97	99
MC36550-2MS	N94586.D	98	99	87
MC36550-2MSD	N94587.D	95	97	87
MSN3489-BS	N94570.D	97	101	91
MSN3489-MB	N94572.D	92	97	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-134%
S2 = Toluene-D8	79-121%
S3 = 4-Bromofluorobenzene	71-133%

Volatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36526-1	M71396.D	106	96	85
MC36526-1	G143350.D	103	102	95
MC36526-2	G143490.D	104	103	99
MC36526-2	M71395.D	105	95	93
MC36526-7	M71397.D	103	97	85
MC36526-7	G143351.D	101	102	102
MC36526-2MS	M71398.D	105	97	85
MC36526-2MS	G143496.D	104	104	99
MC36526-2MSD	M71399.D	105	97	88
MC36526-2MSD	G143497.D	103	103	100
MC36554-4MS	G143336.D	103	103	99
MC36554-4MSD	G143337.D	107	103	100
MSG5379-BS	G143331.D	104	103	99
MSG5379-BSD	G143332.D	104	104	99
MSG5379-MB	G143334.D	103	103	98
MSG5383-BS	G143484.D	107	104	98
MSG5383-BSD	G143486.D	103	105	99
MSG5383-MB	G143488.D	104	103	99
MSM2540-BS	M71391.D	96	97	88
MSM2540-BSD	M71392.D	97	93	90
MSM2540-MB	M71394.D	98	95	91

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	63-139%
S2 = Toluene-D8	61-136%
S3 = 4-Bromofluorobenzene	51-140%

GC/MS Semi-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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-MB	W20063.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-MB	W20063.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	10-73%
4165-62-2	Phenol-d5	33%	10-58%
118-79-6	2,4,6-Tribromophenol	88%	15-125%
4165-60-0	Nitrobenzene-d5	79%	23-120%
321-60-8	2-Fluorobiphenyl	78%	31-102%
1718-51-0	Terphenyl-d14	102%	42-124%

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

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-MB	W20011.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	500	62	ug/kg	
95-57-8	2-Chlorophenol	ND	250	11	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	13	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	14	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	500	81	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	120	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	500	62	ug/kg	
95-48-7	2-Methylphenol	ND	500	20	ug/kg	
	3&4-Methylphenol	ND	500	24	ug/kg	
88-75-5	2-Nitrophenol	ND	500	13	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	93	ug/kg	
87-86-5	Pentachlorophenol	ND	500	35	ug/kg	
108-95-2	Phenol	ND	250	14	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	12	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	12	ug/kg	
62-53-3	Aniline	ND	500	25	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	10	ug/kg	
100-51-6	Benzyl Alcohol	ND	500	25	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	13	ug/kg	
106-47-8	4-Chloroaniline	ND	500	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	15	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	250	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	33	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	12	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	25	ug/kg	
132-64-9	Dibenzofuran	ND	100	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	26	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	7.8	ug/kg	
84-66-2	Diethyl phthalate	ND	250	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	9.2	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	16	ug/kg	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-MB	W20011.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	500	120	ug/kg	
67-72-1	Hexachloroethane	ND	250	12	ug/kg	
78-59-1	Isophorone	ND	250	11	ug/kg	
88-74-4	2-Nitroaniline	ND	500	12	ug/kg	
99-09-2	3-Nitroaniline	ND	500	27	ug/kg	
100-01-6	4-Nitroaniline	ND	500	12	ug/kg	
98-95-3	Nitrobenzene	ND	250	13	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	250	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	15	ug/kg	
110-86-1	Pyridine	ND	500	25	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	84%	30-130%
4165-62-2	Phenol-d5	86%	30-130%
118-79-6	2,4,6-Tribromophenol	87%	30-130%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	81%	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/kg	

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41770-MB	I94016.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507

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

MC36526-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	0.026	0.050	0.011	ug/l	J
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	34%	15-110%
118-79-6	2,4,6-Tribromophenol	96%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	108%	30-130%

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41776-MB	I93990.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	0.86	ug/kg	
208-96-8	Acenaphthylene	ND	5.0	0.76	ug/kg	
120-12-7	Anthracene	ND	5.0	1.1	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	2.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.5	ug/kg	
218-01-9	Chrysene	ND	5.0	1.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.4	ug/kg	
206-44-0	Fluoranthene	ND	5.0	1.5	ug/kg	
86-73-7	Fluorene	ND	5.0	0.98	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	25	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	25	ug/kg	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/kg	
129-00-0	Pyrene	ND	5.0	1.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	75%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-BS	W20064.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	21.4	43	10-67
95-57-8	2-Chlorophenol	50	35.8	72	47-99
59-50-7	4-Chloro-3-methyl phenol	50	41.2	82	51-112
120-83-2	2,4-Dichlorophenol	50	37.4	75	51-110
105-67-9	2,4-Dimethylphenol	50	36.2	72	31-108
51-28-5	2,4-Dinitrophenol	50	33.1	66	10-121
534-52-1	4,6-Dinitro-o-cresol	50	39.7	79	35-135
95-48-7	2-Methylphenol	50	35.1	70	20-112
	3&4-Methylphenol	100	61.4	61	19-102
88-75-5	2-Nitrophenol	50	39.5	79	50-109
100-02-7	4-Nitrophenol	50	17.3	35	10-95
87-86-5	Pentachlorophenol	50	45.5	91	28-117
108-95-2	Phenol	50	14.5	29	21-49
95-95-4	2,4,5-Trichlorophenol	50	45.2	90	56-112
88-06-2	2,4,6-Trichlorophenol	50	39.1	78	54-112
62-53-3	Aniline	50	35.8	72	30-81
101-55-3	4-Bromophenyl phenyl ether	50	52.2	104	56-125
85-68-7	Butyl benzyl phthalate	50	55.2	110	59-138
100-51-6	Benzyl Alcohol	50	37.5	75	19-101
91-58-7	2-Chloronaphthalene	50	49.1	98	54-110
106-47-8	4-Chloroaniline	50	45.6	91	47-99
111-91-1	bis(2-Chloroethoxy)methane	50	49.0	98	50-116
111-44-4	bis(2-Chloroethyl)ether	50	45.3	91	45-123
108-60-1	bis(2-Chloroisopropyl)ether	50	52.8	106	28-160
7005-72-3	4-Chlorophenyl phenyl ether	50	51.9	104	57-117
122-66-7	1,2-Diphenylhydrazine	50	51.3	103	60-120
121-14-2	2,4-Dinitrotoluene	50	53.7	107	62-121
606-20-2	2,6-Dinitrotoluene	50	51.7	103	61-115
91-94-1	3,3'-Dichlorobenzidine	50	45.3	91	49-137
132-64-9	Dibenzofuran	50	52.1	104	56-105
84-74-2	Di-n-butyl phthalate	50	53.3	107	63-119
117-84-0	Di-n-octyl phthalate	50	56.1	112	52-160
84-66-2	Diethyl phthalate	50	53.5	107	44-127
131-11-3	Dimethyl phthalate	50	53.3	107	10-138
117-81-7	bis(2-Ethylhexyl)phthalate	50	55.8	112	63-145
118-74-1	Hexachlorobenzene	50	52.4	105	49-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-BS	W20064.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	18.5	37	10-89
67-72-1	Hexachloroethane	50	32.4	65	22-86
78-59-1	Isophorone	50	44.5	89	52-115
88-74-4	2-Nitroaniline	50	56.5	113	59-118
99-09-2	3-Nitroaniline	50	54.4	109	57-110
100-01-6	4-Nitroaniline	50	55.7	111	54-118
98-95-3	Nitrobenzene	50	44.5	89	50-117
62-75-9	n-Nitrosodimethylamine	50	33.5	67	15-83
621-64-7	N-Nitroso-di-n-propylamine	50	51.0	102	47-131
86-30-6	N-Nitrosodiphenylamine	50	48.4	97	59-109
110-86-1	Pyridine	50	26.5	53	19-69

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	45%	10-73%
4165-62-2	Phenol-d5	32%	10-58%
118-79-6	2,4,6-Tribromophenol	88%	15-125%
4165-60-0	Nitrobenzene-d5	79%	23-120%
321-60-8	2-Fluorobiphenyl	78%	31-102%
1718-51-0	Terphenyl-d14	100%	42-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41770-BS	I94017.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507

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

MC36526-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	45.7	91	45-120
208-96-8	Acenaphthylene	50	47.5	95	31-120
120-12-7	Anthracene	50	47.1	94	51-120
56-55-3	Benzo(a)anthracene	50	55.5	111	46-139
50-32-8	Benzo(a)pyrene	50	55.5	111	39-125
205-99-2	Benzo(b)fluoranthene	50	54.0	108	41-137
191-24-2	Benzo(g,h,i)perylene	50	53.3	107	47-132
207-08-9	Benzo(k)fluoranthene	50	49.8	100	46-131
218-01-9	Chrysene	50	51.0	102	43-129
53-70-3	Dibenzo(a,h)anthracene	50	52.1	104	42-138
206-44-0	Fluoranthene	50	53.6	107	47-134
86-73-7	Fluorene	50	47.6	95	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	53.5	107	41-137
90-12-0	1-Methylnaphthalene	50	39.6	79	39-120
91-57-6	2-Methylnaphthalene	50	40.3	81	22-126
85-01-8	Phenanthrene	50	45.3	91	51-120
129-00-0	Pyrene	50	54.5	109	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	99%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	75%	30-130%
1718-51-0	Terphenyl-d14	105%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41776-BS	I93991.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2440	1880	77	40-140
208-96-8	Acenaphthylene	2440	1940	80	40-140
120-12-7	Anthracene	2440	1940	80	40-140
56-55-3	Benzo(a)anthracene	2440	2250	92	40-140
50-32-8	Benzo(a)pyrene	2440	2280	94	40-140
205-99-2	Benzo(b)fluoranthene	2440	2250	92	40-140
191-24-2	Benzo(g,h,i)perylene	2440	2150	88	40-140
207-08-9	Benzo(k)fluoranthene	2440	1970	81	40-140
218-01-9	Chrysene	2440	2070	85	40-140
53-70-3	Dibenzo(a,h)anthracene	2440	2120	87	40-140
206-44-0	Fluoranthene	2440	2150	88	40-140
86-73-7	Fluorene	2440	1920	79	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2440	2170	89	40-140
90-12-0	1-Methylnaphthalene	2440	1790	73	40-140
91-57-6	2-Methylnaphthalene	2440	1810	74	40-140
85-01-8	Phenanthrene	2440	1830	75	40-140
129-00-0	Pyrene	2440	2180	89	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	81%	30-130%
321-60-8	2-Fluorobiphenyl	80%	30-130%
1718-51-0	Terphenyl-d14	106%	30-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-BS	W20012.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
OP41775-BSD	W20013.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	2440	2180	89	2190	88	0	30-130/30
95-57-8	2-Chlorophenol	2440	1950	80	1990	80	2	30-130/30
59-50-7	4-Chloro-3-methyl phenol	2440	2180	89	2140	86	2	30-130/30
120-83-2	2,4-Dichlorophenol	2440	2070	85	2000	81	3	30-130/30
105-67-9	2,4-Dimethylphenol	2440	2040	84	2020	81	1	30-130/30
51-28-5	2,4-Dinitrophenol	2440	2330	96	2320	93	0	30-130/30
534-52-1	4,6-Dinitro-o-cresol	2440	2450	101	2460	99	0	30-130/30
95-48-7	2-Methylphenol	2440	1990	82	2000	81	1	30-130/30
	3&4-Methylphenol	4870	4080	84	4180	84	2	30-130/30
88-75-5	2-Nitrophenol	2440	2030	83	1930	78	5	30-130/30
100-02-7	4-Nitrophenol	2440	2160	89	2140	86	1	30-130/30
87-86-5	Pentachlorophenol	2440	2220	91	2340	94	5	30-130/30
108-95-2	Phenol	2440	1860	76	1890	76	2	30-130/30
95-95-4	2,4,5-Trichlorophenol	2440	2170	89	2210	89	2	30-130/30
88-06-2	2,4,6-Trichlorophenol	2440	2020	83	2000	81	1	30-130/30
62-53-3	Aniline	2440	1830	75	1750	70	4	40-140/30
101-55-3	4-Bromophenyl phenyl ether	2440	2110	87	1990	80	6	40-140/30
85-68-7	Butyl benzyl phthalate	2440	2200	90	2160	87	2	40-140/30
100-51-6	Benzyl Alcohol	2440	2110	87	2130	86	1	40-140/30
91-58-7	2-Chloronaphthalene	2440	2150	88	2030	82	6	40-140/30
106-47-8	4-Chloroaniline	2440	1730	71	1590	64	8	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	2440	2050	84	1930	78	6	40-140/30
111-44-4	bis(2-Chloroethyl)ether	2440	1930	79	1890	76	2	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	2440	2370	97	2210	89	7	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	2440	2110	87	2070	83	2	40-140/30
122-66-7	1,2-Diphenylhydrazine	2440	2070	85	2010	81	3	40-140/30
121-14-2	2,4-Dinitrotoluene	2440	2220	91	2180	88	2	40-140/30
606-20-2	2,6-Dinitrotoluene	2440	1980	81	2030	82	2	40-140/30
91-94-1	3,3'-Dichlorobenzidine	2440	2050	84	2310	93	12	40-140/30
132-64-9	Dibenzofuran	2440	2100	86	2010	81	4	40-140/30
84-74-2	Di-n-butyl phthalate	2440	2140	88	2120	85	1	40-140/30
117-84-0	Di-n-octyl phthalate	2440	2280	94	2170	87	5	40-140/30
84-66-2	Diethyl phthalate	2440	2180	89	2060	83	6	40-140/30
131-11-3	Dimethyl phthalate	2440	2110	87	2080	84	1	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	2440	2280	94	2160	87	5	40-140/30
118-74-1	Hexachlorobenzene	2440	2100	86	2060	83	2	40-140/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-BS	W20012.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
OP41775-BSD	W20013.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	2440	1230	50	1150	46	7	40-140/30
67-72-1	Hexachloroethane	2440	1940	80	1800	72	7	40-140/30
78-59-1	Isophorone	2440	1850	76	1750	70	6	40-140/30
88-74-4	2-Nitroaniline	2440	2300	94	2210	89	4	40-140/30
99-09-2	3-Nitroaniline	2440	1820	75	1760	71	3	40-140/30
100-01-6	4-Nitroaniline	2440	2270	93	2200	89	3	40-140/30
98-95-3	Nitrobenzene	2440	1970	81	1850	74	6	40-140/30
62-75-9	n-Nitrosodimethylamine	2440	2170	89	2040	82	6	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	2440	2080	85	2030	82	2	40-140/30
86-30-6	N-Nitrosodiphenylamine	2440	1950	80	1960	79	1	40-140/30
110-86-1	Pyridine	2440	1610	66	1430	58	12	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	85%	81%	30-130%
4165-62-2	Phenol-d5	89%	89%	30-130%
118-79-6	2,4,6-Tribromophenol	92%	91%	30-130%
4165-60-0	Nitrobenzene-d5	82%	79%	30-130%
321-60-8	2-Fluorobiphenyl	85%	83%	30-130%
1718-51-0	Terphenyl-d14	100%	98%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-MS	W20065.D	1	01/26/15	KD	01/22/15	OP41769	MSW874
OP41769-MSD	W20066.D	1	01/26/15	KD	01/22/15	OP41769	MSW874
MC36600-2	W20067.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	MC36600-2 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		50	21.7	43	50	22.1	44	2	30-130/20
95-57-8	2-Chlorophenol	ND		50	35.2	70	50	35.0	70	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	41.8	84	50	41.7	83	0	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	39.1	78	50	39.1	78	0	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	34.8	70	50	36.1	72	4	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	34.8	70	50	40.1	80	14	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	42.8	86	50	44.3	89	3	30-130/20
95-48-7	2-Methylphenol	ND		50	32.7	65	50	35.8	72	9	30-130/20
	3&4-Methylphenol	ND		100	62.2	62	100	63.6	64	2	30-130/20
88-75-5	2-Nitrophenol	ND		50	40.2	80	50	39.4	79	2	30-130/20
100-02-7	4-Nitrophenol	ND		50	18.1	36	50	18.3	37	1	30-130/20
87-86-5	Pentachlorophenol	ND		50	45.3	91	50	47.0	94	4	30-130/20
108-95-2	Phenol	ND		50	14.5	29* [a]	50	16.0	32	10	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	45.3	91	50	45.7	91	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	39.7	79	50	40.5	81	2	30-130/20
62-53-3	Aniline	ND		50	27.9	56	50	26.6	53	5	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	48.4	97	50	52.7	105	9	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	54.1	108	50	55.4	111	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	30.8	62	50	35.9	72	15	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	49.1	98	50	50.2	100	2	40-140/20
106-47-8	4-Chloroaniline	ND		50	43.2	86	50	45.3	91	5	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	47.3	95	50	49.3	99	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.9	86	50	44.8	90	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	50.9	102	50	53.9	108	6	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	50.8	102	50	53.6	107	5	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	48.3	97	50	51.3	103	6	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	50.7	101	50	53.9	108	6	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	48.5	97	50	51.1	102	5	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	48.1	96	50	49.0	98	2	40-140/20
132-64-9	Dibenzofuran	ND		50	48.9	98	50	52.7	105	7	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	50.5	101	50	52.7	105	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	54.9	110	50	56.0	112	2	40-140/20
84-66-2	Diethyl phthalate	ND		50	50.6	101	50	54.2	108	7	40-140/20
131-11-3	Dimethyl phthalate	ND		50	50.5	101	50	53.6	107	6	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	55.6	111	50	56.4	113	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	48.1	96	50	52.0	104	8	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41769-MS	W20065.D	1	01/26/15	KD	01/22/15	OP41769	MSW874
OP41769-MSD	W20066.D	1	01/26/15	KD	01/22/15	OP41769	MSW874
MC36600-2	W20067.D	1	01/26/15	KD	01/22/15	OP41769	MSW874

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

MC36526-4

CAS No.	Compound	MC36600-2 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	22.9	46	50	24.7	49	8	40-140/20
67-72-1	Hexachloroethane	ND		50	33.7	67	50	36.9	74	9	40-140/20
78-59-1	Isophorone	ND		50	42.7	85	50	44.9	90	5	40-140/20
88-74-4	2-Nitroaniline	ND		50	54.4	109	50	56.7	113	4	40-140/20
99-09-2	3-Nitroaniline	ND		50	49.8	100	50	51.9	104	4	40-140/20
100-01-6	4-Nitroaniline	ND		50	51.3	103	50	55.7	111	8	40-140/20
98-95-3	Nitrobenzene	ND		50	43.6	87	50	45.5	91	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	31.1	62	50	32.9	66	6	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	47.5	95	50	50.8	102	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.0	94	50	50.0	100	6	40-140/20
110-86-1	Pyridine	ND		50	13.1	26* [a]	50	11.7	23* [a]	11	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-2	Limits
367-12-4	2-Fluorophenol	45%	44%	46%	10-73%
4165-62-2	Phenol-d5	32%	33%	32%	10-58%
118-79-6	2,4,6-Tribromophenol	89%	93%	88%	15-125%
4165-60-0	Nitrobenzene-d5	81%	77%	82%	23-120%
321-60-8	2-Fluorobiphenyl	82%	80%	79%	31-102%
1718-51-0	Terphenyl-d14	100%	97%	102%	42-124%

(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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-MS	W20017.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
OP41775-MSD	W20018.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
MC36526-2	W20019.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		2930	466	16* a	2940	496	17* a	6	30-130/30
95-57-8	2-Chlorophenol	ND		2930	2570	88	2940	2660	90	3	30-130/30
59-50-7	4-Chloro-3-methyl phenol	ND		2930	2810	96	2940	2870	98	2	30-130/30
120-83-2	2,4-Dichlorophenol	ND		2930	2560	87	2940	2690	91	5	30-130/30
105-67-9	2,4-Dimethylphenol	ND		2930	2610	89	2940	2710	92	4	30-130/30
51-28-5	2,4-Dinitrophenol	ND		2930	380	13* a	2940	421	14* a	10	30-130/30
534-52-1	4,6-Dinitro-o-cresol	ND		2930	1500	51	2940	1650	56	10	30-130/30
95-48-7	2-Methylphenol	ND		2930	2610	89	2940	2680	91	3	30-130/30
	3&4-Methylphenol	ND		5860	5330	91	5890	5510	94	3	30-130/30
88-75-5	2-Nitrophenol	ND		2930	2580	88	2940	2630	89	2	30-130/30
100-02-7	4-Nitrophenol	ND		2930	2810	96	2940	2930	100	4	30-130/30
87-86-5	Pentachlorophenol	ND		2930	2890	99	2940	3010	102	4	30-130/30
108-95-2	Phenol	ND		2930	2430	83	2940	2470	84	2	30-130/30
95-95-4	2,4,5-Trichlorophenol	ND		2930	2870	98	2940	2930	100	2	30-130/30
88-06-2	2,4,6-Trichlorophenol	ND		2930	2800	96	2940	2710	92	3	30-130/30
62-53-3	Aniline	ND		2930	2290	78	2940	2220	75	3	40-140/30
101-55-3	4-Bromophenyl phenyl ether	ND		2930	2680	91	2940	2730	93	2	40-140/30
85-68-7	Butyl benzyl phthalate	ND		2930	2960	101	2940	2930	100	1	40-140/30
100-51-6	Benzyl Alcohol	ND		2930	2820	96	2940	3020	103	7	40-140/30
91-58-7	2-Chloronaphthalene	ND		2930	2750	94	2940	2740	93	0	40-140/30
106-47-8	4-Chloroaniline	ND		2930	2130	73	2940	2060	70	3	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	ND		2930	2590	88	2940	2670	91	3	40-140/30
111-44-4	bis(2-Chloroethyl)ether	ND		2930	2460	84	2940	2440	83	1	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2930	2960	101	2940	3050	104	3	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	ND		2930	2740	94	2940	2700	92	1	40-140/30
122-66-7	1,2-Diphenylhydrazine	ND		2930	2680	91	2940	2710	92	1	40-140/30
121-14-2	2,4-Dinitrotoluene	ND		2930	2890	99	2940	2890	98	0	40-140/30
606-20-2	2,6-Dinitrotoluene	ND		2930	2660	91	2940	2690	91	1	40-140/30
91-94-1	3,3'-Dichlorobenzidine	ND		2930	2950	101	2940	2910	99	1	40-140/30
132-64-9	Dibenzofuran	ND		2930	2750	94	2940	2790	95	1	40-140/30
84-74-2	Di-n-butyl phthalate	ND		2930	2750	94	2940	2780	94	1	40-140/30
117-84-0	Di-n-octyl phthalate	ND		2930	3060	104	2940	3030	103	1	40-140/30
84-66-2	Diethyl phthalate	ND		2930	2810	96	2940	2780	94	1	40-140/30
131-11-3	Dimethyl phthalate	ND		2930	2730	93	2940	2760	94	1	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2930	3000	102	2940	3000	102	0	40-140/30
118-74-1	Hexachlorobenzene	ND		2930	2600	89	2940	2760	94	6	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41775-MS	W20017.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
OP41775-MSD	W20018.D	1	01/23/15	KD	01/22/15	OP41775	MSW873
MC36526-2	W20019.D	1	01/23/15	KD	01/22/15	OP41775	MSW873

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		2930	1470	50	2940	1440	49	2	40-140/30
67-72-1	Hexachloroethane	ND		2930	2320	79	2940	2410	82	4	40-140/30
78-59-1	Isophorone	ND		2930	2280	78	2940	2390	81	5	40-140/30
88-74-4	2-Nitroaniline	ND		2930	2990	102	2940	2950	100	1	40-140/30
99-09-2	3-Nitroaniline	ND		2930	2580	88	2940	2500	85	3	40-140/30
100-01-6	4-Nitroaniline	ND		2930	2910	99	2940	2870	98	1	40-140/30
98-95-3	Nitrobenzene	ND		2930	2390	82	2940	2500	85	4	40-140/30
62-75-9	n-Nitrosodimethylamine	ND		2930	2590	88	2940	2700	92	4	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	ND		2930	2700	92	2940	2720	92	1	40-140/30
86-30-6	N-Nitrosodiphenylamine	ND		2930	2600	89	2940	2680	91	3	40-140/30
110-86-1	Pyridine	ND		2930	1860	63	2940	1910	65	3	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
367-12-4	2-Fluorophenol	89%	92%	89%	30-130%
4165-62-2	Phenol-d5	93%	97%	89%	30-130%
118-79-6	2,4,6-Tribromophenol	102%	103%	95%	30-130%
4165-60-0	Nitrobenzene-d5	86%	89%	85%	30-130%
321-60-8	2-Fluorobiphenyl	91%	91%	86%	30-130%
1718-51-0	Terphenyl-d14	109%	110%	105%	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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41770-MS	I94018.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507
OP41770-MSD	I94019.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507
MC36600-3	I94020.D	1	01/26/15	MR	01/22/15	OP41770	MSI3507

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

MC36526-4

CAS No.	Compound	MC36600-3 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	43.8	88	50	46.2	92	5	41-120/20
208-96-8	Acenaphthylene	ND		50	45.8	92	50	48.2	96	5	30-120/20
120-12-7	Anthracene	ND		50	44.9	90	50	46.4	93	3	47-120/20
56-55-3	Benzo(a)anthracene	ND		50	53.3	107	50	55.4	111	4	36-139/20
50-32-8	Benzo(a)pyrene	ND		50	53.1	106	50	55.6	111	5	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		50	53.2	106	50	52.5	105	1	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		50	51.0	102	50	53.8	108	5	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		50	46.3	93	50	51.6	103	11	34-133/20
218-01-9	Chrysene	ND		50	48.8	98	50	51.1	102	5	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	49.7	99	50	52.4	105	5	29-140/20
206-44-0	Fluoranthene	ND		50	51.3	103	50	53.1	106	3	42-132/20
86-73-7	Fluorene	ND		50	44.3	89	50	46.7	93	5	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	51.2	102	50	53.9	108	5	28-139/20
90-12-0	1-Methylnaphthalene	ND		50	39.0	78	50	40.8	82	5	33-120/20
91-57-6	2-Methylnaphthalene	ND		50	40.3	81	50	42.8	86	6	20-125/20
85-01-8	Phenanthrene	ND		50	43.3	87	50	44.9	90	4	47-120/20
129-00-0	Pyrene	ND		50	52.1	104	50	54.0	108	4	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-3	Limits
367-12-4	2-Fluorophenol	47%	47%	47%	15-110%
4165-62-2	Phenol-d5	32%	33%	34%	15-110%
118-79-6	2,4,6-Tribromophenol	96%	95%	96%	15-110%
4165-60-0	Nitrobenzene-d5	79%	77%	83%	30-130%
321-60-8	2-Fluorobiphenyl	76%	75%	74%	30-130%
1718-51-0	Terphenyl-d14	104%	102%	107%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41776-MS	I93992.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506
OP41776-MSD	I93993.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506
MC36526-2	I93994.D	1	01/23/15	MR	01/22/15	OP41776	MSI3506

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5.1	J	2930	2410	82	2940	2440	83	1	40-140/30
208-96-8	Acenaphthylene	5.9		2930	2500	85	2940	2510	85	0	40-140/30
120-12-7	Anthracene	13.6		2930	2460	83	2940	2510	85	2	40-140/30
56-55-3	Benzo(a)anthracene	11.4		2930	2890	98	2940	2940	100	2	40-140/30
50-32-8	Benzo(a)pyrene	13.1		2930	2910	99	2940	2940	99	1	40-140/30
205-99-2	Benzo(b)fluoranthene	11.6		2930	2980	101	2940	2810	95	6	40-140/30
191-24-2	Benzo(g,h,i)perylene	13.1		2930	2740	93	2940	2750	93	0	40-140/30
207-08-9	Benzo(k)fluoranthene	4.6	J	2930	2370	81	2940	2620	89	10	40-140/30
218-01-9	Chrysene	18.9		2930	2660	90	2940	2690	91	1	40-140/30
53-70-3	Dibenzo(a,h)anthracene	5.7	J	2930	2690	92	2940	2700	92	0	40-140/30
206-44-0	Fluoranthene	6.6		2930	2660	91	2940	2770	94	4	40-140/30
86-73-7	Fluorene	21.8		2930	2510	85	2940	2480	84	1	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	8.2		2930	2790	95	2940	2770	94	1	40-140/30
90-12-0	1-Methylnaphthalene	29.5	J	2930	2250	76	2940	2310	77	3	40-140/30
91-57-6	2-Methylnaphthalene	ND		2930	2290	78	2940	2370	81	3	40-140/30
85-01-8	Phenanthrene	174		2930	2520	80	2940	2560	81	2	40-140/30
129-00-0	Pyrene	46.1		2930	2770	93	2940	2860	96	3	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
4165-60-0	Nitrobenzene-d5	85%	86%	83%	30-130%
321-60-8	2-Fluorobiphenyl	84%	86%	79%	30-130%
1718-51-0	Terphenyl-d14	110%	114%	109%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSI3506-CC3483	**Injection Date:**	01/23/15
Lab File ID:	I93973.D	**Injection Time:**	07:45
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	258475	3.65	516259	4.69	301937	6.21	527062	7.53	387466	10.30	969160	11.73
Upper Limit [a]	516950	4.15	1032518	5.19	603874	6.71	1054124	8.03	774932	10.80	1938320	12.23
Lower Limit [b]	129238	3.15	258130	4.19	150969	5.71	263531	7.03	193733	9.80	484580	11.23

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
OP41742-MB	248961	3.65	502494	4.69	288645	6.21	506329	7.53	360527	10.30	892961	11.73
OP41742-BS	260660	3.65	532457	4.70	294416	6.21	535765	7.54	380936	10.30	934479	11.74
OP41742-MS	274906	3.66	558540	4.70	313741	6.21	568411	7.54	407071	10.30	997578	11.74
OP41742-MSD	257829	3.66	532146	4.70	296539	6.21	539149	7.54	388194	10.30	953408	11.74
MC36400-18	276366	3.65	552388	4.69	323120	6.21	563552	7.53	405465	10.30	1009744	11.73
ZZZZZZ	251379	3.65	507126	4.69	292354	6.21	505548	7.53	364426	10.30	913167	11.73
ZZZZZZ	258556	3.65	525242	4.69	304674	6.21	533088	7.53	384035	10.30	932986	11.73
ZZZZZZ	262826	3.65	529621	4.69	305621	6.21	532060	7.53	388447	10.30	974065	11.73
ZZZZZZ	276397	3.65	549408	4.69	316567	6.21	553833	7.53	405424	10.30	1011167	11.74
ZZZZZZ	275027	3.65	550065	4.69	315081	6.21	558908	7.53	404304	10.30	1005722	11.73
ZZZZZZ	253292	3.65	492685	4.69	287937	6.21	510558	7.53	375761	10.30	929080	11.73
ZZZZZZ	263226	3.65	530279	4.69	307555	6.21	536543	7.53	398494	10.30	985754	11.74
ZZZZZZ	233199	3.65	467422	4.69	270101	6.21	474580	7.53	351519	10.30	890206	11.74
ZZZZZZ	262777	3.65	535110	4.69	310626	6.21	549172	7.53	401907	10.30	1016239	11.74
ZZZZZZ	248920	3.66	488966	4.70	286045	6.21	497749	7.53	362591	10.30	919699	11.74
ZZZZZZ	257074	3.66	520544	4.70	295134	6.22	541479	7.54	400715	10.31	1004689	11.74
OP41776-MB	273452	3.66	553432	4.69	319993	6.21	559618	7.53	398536	10.30	976426	11.74
OP41776-BS	273974	3.66	564814	4.70	316703	6.21	577012	7.54	402431	10.31	955881	11.74
OP41776-MS	263484	3.66	546635	4.70	299917	6.21	540101	7.54	394306	10.31	947154	11.74
OP41776-MSD	268785	3.66	551062	4.70	311156	6.21	549126	7.54	388854	10.31	918522	11.74
MC36526-2	264650	3.66	533905	4.69	306525	6.21	527954	7.53	377673	10.30	916302	11.74
MC36526-1	236584	3.65	449465	4.69	269649	6.21	474501	7.54	351109	10.31	860542	11.74
MC36526-7	234693	3.65	451766	4.69	271744	6.21	478880	7.54	354258	10.31	866765	11.75

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSI3507-CC3483	**Injection Date:**	01/26/15
Lab File ID:	I93999.D	**Injection Time:**	07:48
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	266456	3.65	521673	4.69	304257	6.21	535195	7.53	383051	10.30	965101	11.74
Upper Limit [a]	532912	4.15	1043346	5.19	608514	6.71	1070390	8.03	766102	10.80	1930202	12.24
Lower Limit [b]	133228	3.15	260837	4.19	152129	5.71	267598	7.03	191526	9.80	482551	11.24

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
OP41751-MB	358452	3.65	719870	4.69	409113	6.21	705998	7.53	508063	10.30	1281300	11.74
OP41751-BS	382966	3.65	780533	4.70	435877	6.21	768105	7.54	552306	10.31	1353471	11.74
ZZZZZZ	336583	3.65	679874	4.69	390511	6.21	673701	7.53	481253	10.30	1218344	11.74
ZZZZZZ	315278	3.65	631909	4.69	365044	6.21	632931	7.53	451767	10.30	1133929	11.74
ZZZZZZ	300520	3.65	597210	4.69	341443	6.21	584186	7.53	419295	10.30	1059553	11.74
ZZZZZZ	325220	3.65	643271	4.69	373207	6.21	629192	7.53	455039	10.30	1138730	11.74
ZZZZZZ	339877	3.65	683549	4.69	396496	6.21	687683	7.53	488232	10.30	1215980	11.74
ZZZZZZ	334270	3.65	667988	4.69	385138	6.21	654840	7.53	465552	10.30	1172499	11.74
OP41801-MB	342079	3.65	692990	4.69	398328	6.21	685628	7.53	483147	10.30	1143536	11.74
OP41801-BS	322240	3.66	649978	4.70	358817	6.21	635874	7.54	435316	10.31	1033053	11.74
OP41801-MS	330199	3.66	667637	4.69	365714	6.21	639496	7.54	440442	10.30	1072571	11.74
OP41801-MSD	332141	3.66	668001	4.69	367980	6.21	637061	7.54	439337	10.30	1045254	11.74
OP41770-MB	266803	3.65	522923	4.69	299735	6.21	497132	7.53	334482	10.30	815813	11.74
OP41770-BS	265318	3.65	523469	4.70	282094	6.21	499695	7.54	336475	10.30	802175	11.74
OP41770-MS	281964	3.65	564651	4.70	305529	6.21	541257	7.54	366404	10.31	873347	11.74
OP41770-MSD	295365	3.65	592895	4.70	324252	6.21	577934	7.54	390446	10.31	931455	11.74
MC36600-3	274505	3.65	549012	4.69	312385	6.21	527171	7.53	363982	10.30	879539	11.74
ZZZZZZ	272108	3.64	533990	4.68	301277	6.21	514219	7.53	346825	10.30	828409	11.74
MC36526-4	283208	3.65	557192	4.69	314647	6.21	538029	7.53	371253	10.30	889859	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

(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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSW873-CC868	**Injection Date:**	01/23/15
Lab File ID:	W20010.D	**Injection Time:**	08:19
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	163582	4.61	562544	5.72	361253	7.25	615514	8.52	684742	10.93	655081	12.50
Upper Limit [a]	327164	5.11	1125088	6.22	722506	7.75	1231028	9.02	1369484	11.43	1310162	13.00
Lower Limit [b]	81791	4.11	281272	5.22	180627	6.75	307757	8.02	342371	10.43	327541	12.00

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
OP41775-MB	174066	4.61	596321	5.71	374052	7.24	635213	8.51	661755	10.92	633958	12.49
OP41775-BS	171495	4.61	573017	5.72	363131	7.25	612714	8.52	636714	10.92	596915	12.50
OP41775-BSD	166418	4.61	571608	5.72	363155	7.25	598300	8.52	647382	10.92	614146	12.50
ZZZZZZ	177420	4.61	619447	5.72	421737	7.25	659637	8.52	714428	10.92	683687	12.50
ZZZZZZ	187275	4.61	633111	5.71	406486	7.24	678910	8.51	693630	10.92	629781	12.50
OP41775-MS	183146	4.61	622574	5.72	380638	7.25	633939	8.52	631453	10.93	579310	12.50
OP41775-MSD	172758	4.61	587365	5.72	369954	7.25	609716	8.52	622979	10.93	573114	12.50
MC36526-2	182925	4.61	622834	5.71	391429	7.24	637207	8.51	639899	10.92	585109	12.50
MC36526-1 [c]	146892	4.61	509500	5.71	321883	7.25	527364	8.52	563024	10.93	541712	12.50
MC36526-7	151613	4.61	518329	5.71	334567	7.25	538464	8.52	555502	10.93	527924	12.51
ZZZZZZ	166716	4.61	568197	5.71	358558	7.24	591480	8.52	606217	10.92	547749	12.50
ZZZZZZ	181897	4.61	612549	5.71	390564	7.25	632970	8.52	619793	10.92	564628	12.50
ZZZZZZ	156966	4.61	543779	5.71	346632	7.24	584938	8.51	578290	10.92	533743	12.50
ZZZZZZ	159369	4.61	558721	5.72	357833	7.25	578454	8.52	573709	10.93	534715	12.50
ZZZZZZ	158941	4.61	539898	5.71	348216	7.24	579658	8.52	589601	10.92	532853	12.50
ZZZZZZ	174590	4.61	583387	5.71	363369	7.25	581945	8.53	573401	10.94	531681	12.52
OP41754-MB	179828	4.61	613537	5.71	387609	7.25	657989	8.52	668372	10.92	597144	12.50
OP41754-BS	163055	4.61	572031	5.72	361298	7.25	614605	8.52	627830	10.93	573859	12.50
ZZZZZZ	180616	4.61	612630	5.71	379770	7.25	639184	8.52	636612	10.92	558804	12.50
ZZZZZZ	164537	4.61	543335	5.71	339330	7.25	571439	8.52	557884	10.92	524525	12.50
ZZZZZZ	161739	4.61	548241	5.71	333822	7.24	566835	8.52	555677	10.92	511338	12.50
ZZZZZZ	172455	4.61	586856	5.71	367615	7.25	639040	8.52	633887	10.92	592903	12.50
ZZZZZZ	184537	4.61	629366	5.71	395535	7.25	657631	8.52	667307	10.92	620355	12.50
ZZZZZZ	166588	4.61	579489	5.71	366399	7.25	614582	8.52	622914	10.92	577664	12.50
ZZZZZZ	175039	4.61	592546	5.71	372302	7.25	642036	8.52	640018	10.92	589709	12.50
ZZZZZZ	180572	4.61	598489	5.71	385599	7.25	651353	8.52	632535	10.92	584872	12.50

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSW873-CC868	**Injection Date:**	01/23/15
Lab File ID:	W20010.D	**Injection Time:**	08:19
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Elevated RL due to dilution required for matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	MSW874-CC868	**Injection Date:**	01/26/15
Lab File ID:	W20041.D	**Injection Time:**	08:07
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	180558	4.61	607953	5.72	392883	7.25	635471	8.52	660922	10.93	611084	12.50
Upper Limit [a]	361116	5.11	1215906	6.22	785766	7.75	1270942	9.02	1321844	11.43	1222168	13.00
Lower Limit [b]	90279	4.11	303977	5.22	196442	6.75	317736	8.02	330461	10.43	305542	12.00

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
OP41800-MB	229876	4.61	774428	5.71	489086	7.25	837898	8.52	919804	10.92	842507	12.50
OP41800-BS	216596	4.61	733928	5.72	466468	7.25	760442	8.52	787221	10.93	713257	12.50
OP41800-BSD	205373	4.61	706428	5.72	454966	7.25	754459	8.52	780725	10.93	710548	12.50
ZZZZZZ	226504	4.63	790644	5.72	494162	7.25	823644	8.52	797171	10.93	711565	12.50
OP41773-MB	179983	4.61	614394	5.71	390374	7.25	649214	8.52	650934	10.92	570745	12.50
OP41773-BS	208146	4.61	707128	5.72	450708	7.25	732872	8.52	712013	10.93	624616	12.50
ZZZZZZ	199840	4.61	679742	5.71	427042	7.25	744422	8.52	742030	10.92	662495	12.50
ZZZZZZ	204826	4.61	697445	5.71	441488	7.25	736950	8.52	701969	10.92	622066	12.50
ZZZZZZ	213498	4.61	732503	5.71	464302	7.25	783921	8.52	753872	10.92	657699	12.50
ZZZZZZ	217392	4.61	740464	5.71	473061	7.25	792664	8.52	742327	10.92	653762	12.50
ZZZZZZ	227487	4.61	778585	5.71	497863	7.25	820332	8.52	772280	10.92	673528	12.50
ZZZZZZ	169870	4.61	565964	5.71	356606	7.24	624412	8.52	635715	10.92	614973	12.50
ZZZZZZ	204584	4.61	693875	5.71	443821	7.25	699416	8.52	684068	10.94	649364	12.53
ZZZZZZ	177096	4.61	584332	5.71	381795	7.25	639384	8.52	622722	10.92	596502	12.50
OP41769-MB	174665	4.61	600736	5.71	385538	7.25	639878	8.52	645947	10.92	602966	12.50
OP41769-BS	159586	4.61	544657	5.72	347677	7.25	573365	8.52	590240	10.93	557590	12.50
OP41769-MS	181591	4.61	602316	5.72	376924	7.25	619649	8.52	608459	10.93	568802	12.50
OP41769-MSD	202085	4.61	687124	5.72	433046	7.25	709903	8.52	719984	10.93	679369	12.50
MC36600-2	171771	4.61	585193	5.71	372331	7.25	616013	8.51	604295	10.92	566612	12.50
ZZZZZZ	183271	4.61	611952	5.71	398417	7.25	659845	8.52	652815	10.92	618139	12.50
MC36526-4	184873	4.61	612598	5.71	401141	7.24	665543	8.52	669072	10.92	627695	12.50

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36526-4	W20069.D	38	27	81	73	73	94
OP41769-BS	W20064.D	45	32	88	79	78	100
OP41769-MB	W20063.D	48	33	88	79	78	102
OP41769-MS	W20065.D	45	32	89	81	82	100
OP41769-MSD	W20066.D	44	33	93	77	80	97

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-73%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	15-125%
S4 = Nitrobenzene-d5	23-120%
S5 = 2-Fluorobiphenyl	31-102%
S6 = Terphenyl-d14	42-124%

Semivolatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36526-1	W20020.D	52	57	59	51	61	67
MC36526-2	W20019.D	89	89	95	85	86	105
MC36526-7	W20021.D	62	69	82	63	71	86
OP41775-BS	W20012.D	85	89	92	82	85	100
OP41775-BSD	W20013.D	81	89	91	79	83	98
OP41775-MB	W20011.D	84	86	87	80	81	95
OP41775-MS	W20017.D	89	93	102	86	91	109
OP41775-MSD	W20018.D	92	97	103	89	91	110

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

Semivolatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36526-4	I94022.D	73	70	100
OP41770-BS	I94017.D	80	75	105
OP41770-MB	I94016.D	80	72	108
OP41770-MS	I94018.D	79	76	104
OP41770-MSD	I94019.D	77	75	102

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

Semivolatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36526-1	I93995.D	51	60	71
MC36526-2	I93994.D	83	79	109
MC36526-7	I93996.D	60	71	91
OP41776-BS	I93991.D	81	80	106
OP41776-MB	I93990.D	79	75	103
OP41776-MS	I93992.D	85	84	110
OP41776-MSD	I93993.D	86	86	114

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41785-MB	BB61622.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.72	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.4	0.60	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	106%	70-170%
460-00-4	Bromofluorobenzene (S)	118%	70-170%

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-MB	BB61585.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36526-4, MC36526-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	129%	60-140%
460-00-4	Bromofluorobenzene (S)	132%	60-140%

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4735-MB	AB87843A.D	1	01/23/15	AF	n/a	n/a	GAB4735

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	89%	60-135%

Method Blank Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4734-MB	AB87843.D	1	01/23/15	AF	n/a	n/a	GAB4734

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (VOA)	ND	5.0	0.74	mg/kg	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	89%	50-130%

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41785-BS	BB61623.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	32.7	39.8	121	73-168
106-93-4	1,2-Dibromoethane	32.7	36.2	111	74-166

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	116%	70-170%
460-00-4	Bromofluorobenzene (S)	121%	70-170%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-BS	BB61586.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36526-4, MC36526-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.10	141	45-149
106-93-4	1,2-Dibromoethane	0.071	0.082	115	51-149

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	124%	60-140%
460-00-4	Bromofluorobenzene (S)	132%	60-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4735-BSP	AB87844A.D	1	01/23/15	AF	n/a	n/a	GAB4735
GAB4735-BSD	AB87845A.D	1	01/23/15	AF	n/a	n/a	GAB4735

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	0.65	0.638	98	0.648	100	2	68-134/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	96%	99%	60-135%

* = Outside of Control Limits.

8.3.1

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Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GAB4734-BSP	AB87844.D	1	01/23/15	AF	n/a	n/a	GAB4734
GAB4734-BSD	AB87845.D	1	01/23/15	AF	n/a	n/a	GAB4734

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	32.5	31.9	98	32.4	100	2	66-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	96%	99%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41785-MS	BB61624.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384
OP41785-MSD	BB61625.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384
MC36526-2	BB61626.D	1	01/28/15	NK	01/23/15	OP41785	GBB3384

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

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		39.6	52.6	133	38.9	52.9	136	1	60-184/30
106-93-4	1,2-Dibromoethane	ND		39.6	46.8	118	38.9	47.1	121	1	83-156/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
460-00-4	Bromofluorobenzene (S)	111%	118%	125%	70-170%
460-00-4	Bromofluorobenzene (S)	121%	124%	134%	70-170%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41806-MS	BB61587.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
OP41806-MSD	BB61588.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383
MC36600-6	BB61589.D	1	01/27/15	NK	01/24/15	OP41806	GBB3383

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

MC36526-4, MC36526-6

CAS No.	Compound	MC36600-6 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	0.094	132	0.071	0.11	155	16	31-169/30
106-93-4	1,2-Dibromoethane	ND		0.071	0.081	114	0.071	0.092	130	13	34-175/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-6	Limits
460-00-4	Bromofluorobenzene (S)	136%	143%* [a]	131%	60-140%
460-00-4	Bromofluorobenzene (S)	145%* [a]	150%* [a]	147%* [b]	60-140%

(a) Outside control limits due to possible matrix interference.
(b) Outside control limits.Sample non-detect for targets analyte.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36526-2MS	AB87848.D	1	01/23/15	AF	n/a	n/a	GAB4734
MC36526-2MSD	AB87849.D	1	01/23/15	AF	n/a	n/a	GAB4734
MC36526-2	AB87847.D	1	01/23/15	AF	n/a	n/a	GAB4734

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-1, MC36526-2, MC36526-7

CAS No.	Compound	MC36526-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		80.3	79.4	99	80.3	81.4	101	2	40-143/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36526-2	Limits
	2,3,4-Trifluorotoluene	99%	103%	94%	50-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36580-1MS	AB87850.D	1	01/23/15	AF	n/a	n/a	GAB4735
MC36580-1MSD	AB87851.D	1	01/23/15	AF	n/a	n/a	GAB4735
MC36580-1	AB87846.D	1	01/23/15	AF	n/a	n/a	GAB4735

The QC reported here applies to the following samples: **Method:** SW846 8015

MC36526-4

CAS No.	Compound	MC36580-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (VOA)	ND		0.65	0.645	99	0.65	0.634	98	2	72-131/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36580-1	Limits
	2,3,4-Trifluorotoluene	99%	98%	91%	60-135%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

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]
MC36526-4	BB61598.D	111	127
MC36526-6	BB61599.D	113	123
OP41806-BS	BB61586.D	124	132
OP41806-MB	BB61585.D	129	132
OP41806-MS	BB61587.D	136	145* [c]
OP41806-MSD	BB61588.D	143* [c]	150* [c]

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	60-140%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1
(c) Outside control limits due to possible matrix interference.

Volatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8011 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC36526-1	BB61627.D	162	150
MC36526-2	BB61626.D	125	134
MC36526-7	BB61628.D	142	145
OP41785-BS	BB61623.D	116	121
OP41785-MB	BB61622.D	106	118
OP41785-MS	BB61624.D	111	121
OP41785-MSD	BB61625.D	118	124

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	70-170%

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

Volatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8015 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC36526-4	AB87853.D	89
GAB4735-BSD	AB87845A.D	99
GAB4735-BSP	AB87844A.D	96
GAB4735-MB	AB87843A.D	89
MC36580-1MS	AB87850.D	99
MC36580-1MSD	AB87851.D	98

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	60-135%

(a) Recovery from GC signal #1

Volatile Surrogate Recovery Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Method: SW846 8015 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC36526-1	AB87854.D	94
MC36526-2	AB87847.D	94
MC36526-7	AB87855.D	94
GAB4734-BSD	AB87845.D	99
GAB4734-BSP	AB87844.D	96
GAB4734-MB	AB87843.D	89
MC36526-2MS	AB87848.D	99
MC36526-2MSD	AB87849.D	103

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	50-130%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GBB3383-CC3383	**Injection Date:**	01/27/15
Lab File ID:	BB61584A.D	**Injection Time:**	00:47
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBB3382-ECC3382	BB61584.D	01/27/15	00:47	4.81	4.93
OP41806-MB	BB61585.D	01/27/15	01:11	4.81	4.93
OP41806-BS	BB61586.D	01/27/15	01:34	4.81	4.93
OP41806-MS	BB61587.D	01/27/15	01:57	4.81	4.93
OP41806-MSD	BB61588.D	01/27/15	02:21	4.81	4.93
MC36600-6	BB61589.D	01/27/15	02:44	4.81	4.93
ZZZZZZ	BB61590.D	01/27/15	03:06	4.81	4.93
ZZZZZZ	BB61591.D	01/27/15	03:29	4.81	4.93
ZZZZZZ	BB61592.D	01/27/15	03:53	4.81	4.93
ZZZZZZ	BB61593.D	01/27/15	04:15	4.81	4.93
ZZZZZZ	BB61594.D	01/27/15	04:38	4.81	4.93

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GBB3383-CC3383	**Injection Date:**	01/27/15
Lab File ID:	BB61595.D	**Injection Time:**	05:01
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BB61596.D	01/27/15	05:24	4.81	4.93
ZZZZZZ	BB61597.D	01/27/15	05:46	4.81	4.93
MC36526-4	BB61598.D	01/27/15	06:09	4.81	4.93
MC36526-6	BB61599.D	01/27/15	06:32	4.81	4.93
ZZZZZZ	BB61600.D	01/27/15	06:55	4.81	4.93
ZZZZZZ	BB61601.D	01/27/15	07:17	4.81	4.93
ZZZZZZ	BB61602.D	01/27/15	07:40	4.81	4.93
GBB3383-ECC3383	BB61603.D	01/27/15	08:03	4.81	4.93

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GBB3384-CC3384	**Injection Date:**	01/28/15
Lab File ID:	BB61621.D	**Injection Time:**	19:46
Instrument ID:	GCBB	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.81	4.93

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41785-MB	BB61622.D	01/28/15	20:10	4.81	4.93
OP41785-BS	BB61623.D	01/28/15	20:34	4.81	4.93
OP41785-MS	BB61624.D	01/28/15	20:58	4.81	4.93
OP41785-MSD	BB61625.D	01/28/15	21:21	4.81	4.93
MC36526-2	BB61626.D	01/28/15	21:43	4.81	4.93
MC36526-1	BB61627.D	01/28/15	22:04	4.81	4.93
MC36526-7	BB61628.D	01/28/15	22:27	4.81	4.93
GBB3384-ECC3384	BB61629.D	01/28/15	22:50	4.81	4.93

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: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GAB4735-CC4654	**Injection Date:**	01/23/15
Lab File ID:	AB87842A.D	**Injection Time:**	07:40
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4734-MB	AB87843.D	01/23/15	08:18	20.28
GAB4735-MB	AB87843A.D	01/23/15	08:18	20.28
GAB4734-BSP	AB87844.D	01/23/15	08:57	20.29
GAB4735-BSP	AB87844A.D	01/23/15	08:57	20.29
GAB4735-BSD	AB87845A.D	01/23/15	12:02	20.29
GAB4734-BSD	AB87845.D	01/23/15	12:02	20.29
MC36580-1	AB87846.D	01/23/15	12:39	20.29
MC36526-2	AB87847.D	01/23/15	13:16	20.29
MC36526-2MS	AB87848.D	01/23/15	13:53	20.29
MC36526-2MSD	AB87849.D	01/23/15	14:31	20.29
MC36580-1MS	AB87850.D	01/23/15	15:08	20.29
MC36580-1MSD	AB87851.D	01/23/15	15:47	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GAB4734-CC4654	**Injection Date:**	01/23/15
Lab File ID:	AB87842.D	**Injection Time:**	07:40
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GAB4734-MB	AB87843.D	01/23/15	08:18	20.28
GAB4735-MB	AB87843A.D	01/23/15	08:18	20.28
GAB4734-BSP	AB87844.D	01/23/15	08:57	20.29
GAB4735-BSP	AB87844A.D	01/23/15	08:57	20.29
GAB4735-BSD	AB87845A.D	01/23/15	12:02	20.29
GAB4734-BSD	AB87845.D	01/23/15	12:02	20.29
MC36580-1	AB87846.D	01/23/15	12:39	20.29
MC36526-2	AB87847.D	01/23/15	13:16	20.29
MC36526-2MS	AB87848.D	01/23/15	13:53	20.29
MC36526-2MSD	AB87849.D	01/23/15	14:31	20.29
MC36580-1MS	AB87850.D	01/23/15	15:08	20.29
MC36580-1MSD	AB87851.D	01/23/15	15:47	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GAB4734-CC4654	**Injection Date:**	01/23/15
Lab File ID:	AB87852.D	**Injection Time:**	16:24
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC36526-4	AB87853.D	01/23/15	17:02	20.29
MC36526-1	AB87854.D	01/23/15	17:39	20.29
MC36526-7	AB87855.D	01/23/15	18:16	20.29
ZZZZZZ	AB87856.D	01/23/15	19:34	20.29
ZZZZZZ	AB87858.D	01/23/15	20:51	20.29
ZZZZZZ	AB87859.D	01/23/15	21:29	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

8.9.6

8

GC Surrogate Retention Time Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Check Std:	GAB4735-CC4654	**Injection Date:**	01/23/15
Lab File ID:	AB87852A.D	**Injection Time:**	16:24
Instrument ID:	GCAB	**Method:**	SW846 8015

	S1 [a] RT
Check Std	20.29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
MC36526-4	AB87853.D	01/23/15	17:02	20.29
MC36526-1	AB87854.D	01/23/15	17:39	20.29
MC36526-7	AB87855.D	01/23/15	18:16	20.29
ZZZZZZ	AB87856.D	01/23/15	19:34	20.29
ZZZZZZ	AB87858.D	01/23/15	20:51	20.29
ZZZZZZ	AB87859.D	01/23/15	21:29	20.29

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #1

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC36526
Account: SHELLWIC Shell Oil
Project: URSMOSTL:21563720.03200 BP Well

Sample: MC36526-1 **Analyzed:** 23-JAN-15 by HS **Method:** SM 2540G-97 MOD
ClientID: MW23-ROX-011915 (4-6')

Wet Weight (Total)	26.824	g
Tare Weight	17.982	g
Dry Weight (Total)	24.125	g
Solids, Percent	69.5	%

Sample: MC36526-2 **Analyzed:** 23-JAN-15 by HS **Method:** SM 2540G-97 MOD
ClientID: MW23-ROX-012015 (32-36')

Wet Weight (Total)	42.978	g
Tare Weight	28.241	g
Dry Weight (Total)	40.639	g
Solids, Percent	84.1	%

Sample: MC36526-7 **Analyzed:** 23-JAN-15 by HS **Method:** SM 2540G-97 MOD
ClientID: MW23-ROX-011915 (4-6') DUP

Wet Weight (Total)	37.545	g
Tare Weight	29.273	g
Dry Weight (Total)	35.021	g
Solids, Percent	69.5	%

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36583

Sampling Date: 01/22/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 95

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 03, 2016

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

RE: SGS Accutest Job # MC36583

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: MC36583

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC36583-1	01/22/15	11:15		01/23/15	AQ	Ground Water	MW8-ROX-012215
MC36583-2	01/22/15	12:40		01/23/15	AQ	Ground Water	MW25-ROX-012215
MC36583-3	01/22/15	13:55		01/23/15	AQ	Ground Water	MW7-ROX-012215
MC36583-4	01/22/15	00:00		01/23/15	AQ	Trip Blank Water	TB-ROX-012215-HCL
MC36583-5	01/22/15	00:00		01/23/15	AQ	Trip Blank Water	TB-ROX-012215-ST
MC36583-6	01/22/15	13:55		01/23/15	AQ	Ground Water	MW7-ROX-012215-DUP

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC36583

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 3:54:3 PM

4 Samp e(s), 2 Tr p B ank(s) were co ected on 0 /22/20 5 and were rece ved at SGS Accutest New Eng and on 0 /23/20 5 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC36583 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 8260C

Matrix: AQ **Batch ID:** MSN3490

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC36585-2MS, MC36585-2MSD 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
- Bromomethane, V ny ch or de: 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
- MSN3490-BS for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Matrix: AQ **Batch ID:** MSN3492

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3660 -4MS, MC3660 -4MSD 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
- Acetone, 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

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 826

- 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) MC36600-20MS, MC36600-20MSD were used as the QC samp es nd cated
- RPD(s) for MSD for 2,4-D n tropheno , 4,6-D n tro-o-creso , Hexach orocyc opentad ene are outs de contro m ts for samp e OP4 826-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 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 827

- 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) MC36600-2 MS, MC36600-2 MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job
- Samp e(s) MC36583- , MC36583-2, MC36583-3, MC36583-6 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 840

- 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) MC36600-24MS, MC36600-24MSD 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(MC36583)

Summary of Hits

Job Number: MC36583
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/22/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36583-1	MW8-ROX-012215					
Benzene		764000	5000	2500	ug/l	SW846 8260C
Ethylbenzene		359 J	1000	250	ug/l	SW846 8260C
Methyl Tert Butyl Ether		906 J	1000	220	ug/l	SW846 8260C
Toluene		259 J	1000	220	ug/l	SW846 8260C
Xylene (total)		318 J	1000	300	ug/l	SW846 8260C
2,4-Dimethylphenol		17.2	10	0.58	ug/l	SW846 8270D
2-Methylphenol		10.2	10	0.23	ug/l	SW846 8270D
3&4-Methylphenol		24.2	10	0.49	ug/l	SW846 8270D
Phenol		146	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.27 J	5.2	0.18	ug/l	SW846 8270D
Acenaphthene		0.27	0.10	0.0078	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.073 J	0.10	0.0088	ug/l	SW846 8270D BY SIM
Anthracene		0.035 J	0.10	0.010	ug/l	SW846 8270D BY SIM
Fluorene		0.37	0.10	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		11.0	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		4.6	2.1	0.011	ug/l	SW846 8270D BY SIM
Phenanthrene		0.16 B	0.052	0.011	ug/l	SW846 8270D BY SIM
MC36583-2	MW25-ROX-012215					
Benzene		62800	130	62	ug/l	SW846 8260C
Methyl Tert Butyl Ether		282	250	54	ug/l	SW846 8260C
Xylene (total)		82.1 J	250	76	ug/l	SW846 8260C
Phenol		107	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.28 J	5.2	0.18	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.59 J	2.1	0.34	ug/l	SW846 8270D
Fluoranthene		0.018 JB	0.10	0.0076	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.36 J	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.15 J	2.1	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.019 JB	0.10	0.0088	ug/l	SW846 8270D BY SIM
MC36583-3	MW7-ROX-012215					
Benzene		821000	5000	2500	ug/l	SW846 8260C
2,4-Dimethylphenol		0.72 J	11	0.59	ug/l	SW846 8270D
3&4-Methylphenol		0.59 J	11	0.49	ug/l	SW846 8270D
Phenol		145	5.3	0.32	ug/l	SW846 8270D
Di-n-butyl phthalate		0.35 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.26	0.11	0.0079	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.051 J	0.11	0.0088	ug/l	SW846 8270D BY SIM
Anthracene		0.056 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.050 JB	0.053	0.025	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.028 J	0.11	0.016	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36583
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/22/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(b)fluoranthene		0.13	0.053	0.020	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.034 J	0.11	0.013	ug/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.026 J	0.11	0.011	ug/l	SW846 8270D BY SIM
Chrysene		0.046 JB	0.11	0.014	ug/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.025 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Fluoranthene		0.063 JB	0.11	0.0078	ug/l	SW846 8270D BY SIM
Fluorene		0.24	0.11	0.016	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.030 J	0.11	0.021	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		5.3	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		6.8	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.49	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.099 JB	0.11	0.0089	ug/l	SW846 8270D BY SIM
MC36583-4	**TB-ROX-012215-HCL**					
No hits reported in this sample.						
MC36583-5	**TB-ROX-012215-ST**					
No hits reported in this sample.						
MC36583-6	**MW7-ROX-012215-DUP**					
Benzene		799000	5000	2500	ug/l	SW846 8260C
2,4-Dimethylphenol		0.71 J	10	0.58	ug/l	SW846 8270D
3&4-Methylphenol		0.56 J	10	0.49	ug/l	SW846 8270D
Phenol		136	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.27 J	5.2	0.18	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.39 J	2.1	0.35	ug/l	SW846 8270D
Acenaphthene		0.25	0.10	0.0078	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.044 J	0.10	0.0088	ug/l	SW846 8270D BY SIM
Anthracene		0.46	0.10	0.010	ug/l	SW846 8270D BY SIM
Chrysene		0.021 JB	0.10	0.014	ug/l	SW846 8270D BY SIM
Fluoranthene		0.021 JB	0.10	0.0077	ug/l	SW846 8270D BY SIM
Fluorene		0.22	0.10	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		5.2	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		6.6	2.1	0.011	ug/l	SW846 8270D BY SIM
Phenanthrene		0.45	0.052	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.058 JB	0.10	0.0089	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94615.D	1000	02/02/15	TT	n/a	n/a	MSN3490
Run #2	N94694.D	10000	02/05/15	JB	n/a	n/a	MSN3492

	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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	764000 [a]	5000	2500	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [b]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	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:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	359	1000	250	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	906	1000	220	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	259	1000	220	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	300	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [b]	ND	1000	450	ug/l	
	m,p-Xylene	ND	1000	380	ug/l	
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	318	1000	300	ug/l	J

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	100%	67-134%
2037-26-5	Toluene-D8	97%	101%	79-121%
460-00-4	4-Bromofluorobenzene	96%	102%	71-133%

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

(a) Result is from Run# 2
(b) 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:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20135.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.86	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	17.2	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	10.2	10	0.23	ug/l	
	3&4-Methylphenol	24.2	10	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	146	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.2	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	47%		10-73%
4165-62-2	Phenol-d5	34%		10-58%
118-79-6	2,4,6-Tribromophenol	94%		15-125%
4165-60-0	Nitrobenzene-d5	82%		23-120%
321-60-8	2-Fluorobiphenyl	81%		31-102%
1718-51-0	Terphenyl-d14	101%		42-124%

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:	MW8-ROX-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94071.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
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	0.27	0.10	0.0078	ug/l	
208-96-8	Acenaphthylene	0.073	0.10	0.0088	ug/l	J
120-12-7	Anthracene	0.035	0.10	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.052	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0077	ug/l	
86-73-7	Fluorene	0.37	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	11.0	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	4.6	2.1	0.011	ug/l	
85-01-8	Phenanthrene	0.16	0.052	0.011	ug/l	B
129-00-0	Pyrene	ND	0.10	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	108%		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-012215		
Lab Sample ID:	MC36583-1	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45900.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		60-140%
460-00-4	Bromofluorobenzene (S)	98%		60-140%

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

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

Report of Analysis

Client Sample ID:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94690.D	250	02/05/15	JB	n/a	n/a	MSN3492
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]	ND	2500	630	ug/l	
107-02-8	Acrolein	ND	6300	1500	ug/l	
107-13-1	Acrylonitrile	ND	1300	530	ug/l	
71-43-2	Benzene	62800	130	62	ug/l	
108-86-1	Bromobenzene	ND	1300	87	ug/l	
74-97-5	Bromochloromethane	ND	1300	100	ug/l	
75-27-4	Bromodichloromethane	ND	250	120	ug/l	
75-25-2	Bromoform	ND	250	76	ug/l	
74-83-9	Bromomethane	ND	500	190	ug/l	
78-93-3	2-Butanone (MEK)	ND	1300	630	ug/l	
104-51-8	n-Butylbenzene	ND	1300	270	ug/l	
135-98-8	sec-Butylbenzene	ND	1300	100	ug/l	
98-06-6	tert-Butylbenzene	ND	1300	97	ug/l	
75-15-0	Carbon disulfide	ND	1300	110	ug/l	
56-23-5	Carbon tetrachloride	ND	250	58	ug/l	
108-90-7	Chlorobenzene	ND	250	63	ug/l	
75-00-3	Chloroethane	ND	500	93	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1300	830	ug/l	
67-66-3	Chloroform	ND	250	77	ug/l	
74-87-3	Chloromethane	ND	500	150	ug/l	
95-49-8	o-Chlorotoluene	ND	1300	96	ug/l	
106-43-4	p-Chlorotoluene	ND	1300	110	ug/l	
124-48-1	Dibromochloromethane	ND	250	65	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	60	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	39	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	78	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	500	180	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	49	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	83	ug/l	
75-35-4	1,1-Dichloroethene	ND	250	74	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	250	110	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	120	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:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	500	110	ug/l	
142-28-9	1,3-Dichloropropane	ND	1300	220	ug/l	
594-20-7	2,2-Dichloropropane	ND	1300	310	ug/l	
563-58-6	1,1-Dichloropropene	ND	1300	120	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	130	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	130	96	ug/l	
123-91-1	1,4-Dioxane	ND	6300	2700	ug/l	
97-63-2	Ethyl methacrylate	ND	1300	130	ug/l	
100-41-4	Ethylbenzene	ND	250	63	ug/l	
87-68-3	Hexachlorobutadiene	ND	1300	420	ug/l	
591-78-6	2-Hexanone	ND	1300	400	ug/l	
98-82-8	Isopropylbenzene	ND	1300	87	ug/l	
99-87-6	p-Isopropyltoluene	ND	1300	93	ug/l	
1634-04-4	Methyl Tert Butyl Ether	282	250	54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	250	ug/l	
74-95-3	Methylene bromide	ND	1300	130	ug/l	
75-09-2	Methylene chloride	ND	500	98	ug/l	
91-20-3	Naphthalene	ND	1300	170	ug/l	
103-65-1	n-Propylbenzene	ND	1300	120	ug/l	
100-42-5	Styrene	ND	1300	73	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	110	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	130	74	ug/l	
127-18-4	Tetrachloroethene	ND	250	72	ug/l	
108-88-3	Toluene	ND	250	54	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1300	170	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	74	ug/l	
79-01-6	Trichloroethene	ND	250	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	250	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1300	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1300	75	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1300	45	ug/l	
108-05-4	Vinyl Acetate	ND	1300	180	ug/l	
75-01-4	Vinyl chloride	ND	250	110	ug/l	
	m,p-Xylene	ND	250	96	ug/l	
95-47-6	o-Xylene	ND	250	76	ug/l	
1330-20-7	Xylene (total)	82.1	250	76	ug/l	J

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

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

Report of Analysis

Client Sample ID:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		67-134%
2037-26-5	Toluene-D8	99%		79-121%
460-00-4	4-Bromofluorobenzene	101%		71-133%

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

(a) 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:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20136.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	107	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.2	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	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:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.59	2.1	0.34	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	36%		10-73%
4165-62-2	Phenol-d5	27%		10-58%
118-79-6	2,4,6-Tribromophenol	81%		15-125%
4165-60-0	Nitrobenzene-d5	63%		23-120%
321-60-8	2-Fluorobiphenyl	62%		31-102%
1718-51-0	Terphenyl-d14	95%		42-124%

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:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94072.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
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	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0087	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	0.018	0.10	0.0076	ug/l	JB
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	0.36	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	0.15	2.1	0.011	ug/l	J
85-01-8	Phenanthrene	ND	0.052	0.011	ug/l	
129-00-0	Pyrene	0.019	0.10	0.0088	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	104%		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:	MW25-ROX-012215		
Lab Sample ID:	MC36583-2	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45901.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	88%		60-140%
460-00-4	Bromofluorobenzene (S)	96%		60-140%

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

J = Indicates 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-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94617.D	1000	02/02/15	TT	n/a	n/a	MSN3490
Run #2	N94696.D	10000	02/05/15	JB	n/a	n/a	MSN3492

	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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	821000 [a]	5000	2500	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [b]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	470	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:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	ND	1000	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	300	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [b]	ND	1000	450	ug/l	
	m,p-Xylene	ND	1000	380	ug/l	
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	ND	1000	300	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:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	100%	67-134%
2037-26-5	Toluene-D8	97%	100%	79-121%
460-00-4	4-Bromofluorobenzene	97%	106%	71-133%

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

(a) Result is from Run# 2
(b) 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:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20137.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	0.72	11	0.59	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	0.59	11	0.49	ug/l	J
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	145	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.35	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	49%		10-73%
4165-62-2	Phenol-d5	34%		10-58%
118-79-6	2,4,6-Tribromophenol	92%		15-125%
4165-60-0	Nitrobenzene-d5	81%		23-120%
321-60-8	2-Fluorobiphenyl	82%		31-102%
1718-51-0	Terphenyl-d14	99%		42-124%

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
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94073.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
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	0.26	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	0.051	0.11	0.0088	ug/l	J
120-12-7	Anthracene	0.056	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	0.050	0.053	0.025	ug/l	JB
50-32-8	Benzo(a)pyrene	0.028	0.11	0.016	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.13	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.034	0.11	0.013	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.026	0.11	0.011	ug/l	J
218-01-9	Chrysene	0.046	0.11	0.014	ug/l	JB
53-70-3	Dibenzo(a,h)anthracene	0.025	0.11	0.016	ug/l	J
206-44-0	Fluoranthene	0.063	0.11	0.0078	ug/l	JB
86-73-7	Fluorene	0.24	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.030	0.11	0.021	ug/l	J
90-12-0	1-Methylnaphthalene	5.3	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	6.8	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.49	0.053	0.011	ug/l	
129-00-0	Pyrene	0.099	0.11	0.0089	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	103%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012215		
Lab Sample ID:	MC36583-3	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45902.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	83%		60-140%
460-00-4	Bromofluorobenzene (S)	90%		60-140%

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

J = Indicates 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-012215-HCL		
Lab Sample ID:	MC36583-4	**Date Sampled:**	01/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94607.D	1	02/02/15	TT	n/a	n/a	MSN3490
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-ROX-012215-HCL		
Lab Sample ID:	MC36583-4	**Date Sampled:**	01/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-012215-HCL		
Lab Sample ID:	MC36583-4	**Date Sampled:**	01/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-134%
2037-26-5	Toluene-D8	96%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

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

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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:	TB-ROX-012215-ST		
Lab Sample ID:	MC36583-5	**Date Sampled:**	01/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/23/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45903.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	107%		60-140%
460-00-4	Bromofluorobenzene (S)	104%		60-140%

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

J = Indicates 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-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94618.D	1000	02/02/15	TT	n/a	n/a	MSN3490
Run #2	N94697.D	10000	02/05/15	JB	n/a	n/a	MSN3492

	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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	799000 [a]	5000	2500	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [b]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	470	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	ND	1000	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	300	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [b]	ND	1000	450	ug/l	
	m,p-Xylene	ND	1000	380	ug/l	
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	ND	1000	300	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-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	102%	67-134%
2037-26-5	Toluene-D8	98%	102%	79-121%
460-00-4	4-Bromofluorobenzene	96%	103%	71-133%

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

(a) Result is from Run# 2
(b) 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:	MW7-ROX-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W20138.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.86	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	0.71	10	0.58	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	0.56	10	0.49	ug/l	J
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	136	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.26	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.2	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	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:	MW7-ROX-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.39	2.1	0.35	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.26	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	48%		10-73%
4165-62-2	Phenol-d5	34%		10-58%
118-79-6	2,4,6-Tribromophenol	90%		15-125%
4165-60-0	Nitrobenzene-d5	79%		23-120%
321-60-8	2-Fluorobiphenyl	79%		31-102%
1718-51-0	Terphenyl-d14	96%		42-124%

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:	MW7-ROX-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94074.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
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	0.25	0.10	0.0078	ug/l	
208-96-8	Acenaphthylene	0.044	0.10	0.0088	ug/l	J
120-12-7	Anthracene	0.46	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	0.021	0.10	0.014	ug/l	JB
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	0.021	0.10	0.0077	ug/l	JB
86-73-7	Fluorene	0.22	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
90-12-0	1-Methylnaphthalene	5.2	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	6.6	2.1	0.011	ug/l	
85-01-8	Phenanthrene	0.45	0.052	0.011	ug/l	
129-00-0	Pyrene	0.058	0.10	0.0089	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	101%		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-012215-DUP		
Lab Sample ID:	MC36583-6	**Date Sampled:**	01/22/15
Matrix:	AQ - Ground Water	**Date Received:**	01/23/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45904.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	78%		60-140%
460-00-4	Bromofluorobenzene (S)	83%		60-140%

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

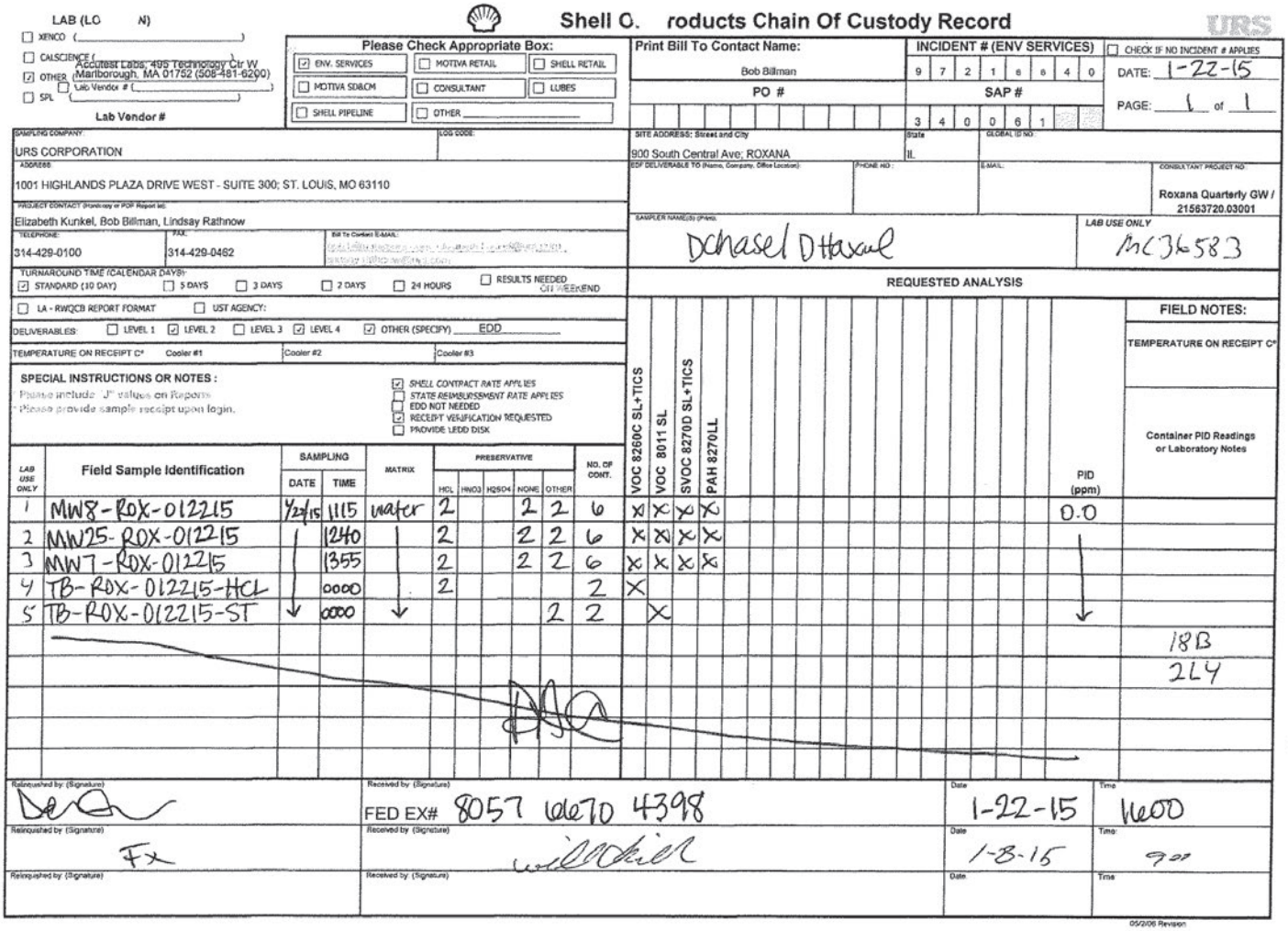
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



LAB (LC N)

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

Shell C. roducts Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&OM ☐ 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: 1-22-15
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 / 21563720.03001
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL:
SAMPLER NAME(S) (Print): Dchasel Dtaxal
LAB USE ONLY: MC36583

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 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
1	MW8-ROX-012215	1/22/15	1115	water	2			2	2	6	X	X	X	X	0.0	
2	MW25-ROX-012215		1240		2			2	2	6	X	X	X	X		
3	MW7-ROX-012215		1355		2			2	2	6	X	X	X	X		
4	TB-ROX-012215-HCL		0000		2					2	X					
5	TB-ROX-012215-ST		0000						2	2		X				
																18B
																214

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FED EX# 8057 1067 0 4398	1-22-15	1600
Fx		1-8-15	900

05/2/06 Revision

1.0°c

5.1 5

MC36583: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36583 **Client:** URS **Immediate Client Services Action Required:** Yes

Date / Time Received: 1/23/2015 9:00:00 AM **Delivery Method:**

Project: ROXANA **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	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	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	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

-6 Full set of containers (2-950ML N P. ,2-40ML (HCL) , 2-40ML (SOD TH)) Recd. ID "MW-7 ROX-012215-DUP,1/22/15,13:55" Recd. Not listed on COC

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1
5

Sample Receipt Summary - Problem Resolution

Accutest Job Number: MC36583

CSR: mattm **Response Date:** 1/23/2015

Response: Client advised to run "MW7-ROX-012215-DUP" for all parameters. See scanned email.

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC36583: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36583

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36583-1 Collected: 22-JAN-15 11:15 By: MW8-ROX-012215			Received: 23-JAN-15		By: SAP	
MC36583-1	SW846 8270D BY SIM	29-JAN-15 16:38	MR	28-JAN-15	AZ	B8270SIMSL
MC36583-1	SW846 8011	30-JAN-15 02:13	NK	28-JAN-15	MT	V8011SL
MC36583-1	SW846 8270D	30-JAN-15 14:00	KD	28-JAN-15	AZ	AB8270SL+
MC36583-1	SW846 8260C	02-FEB-15 16:24	TT			V8260SL+
MC36583-1	SW846 8260C	05-FEB-15 12:57	JB			V8260SL+
MC36583-2 Collected: 22-JAN-15 12:40 By: MW25-ROX-012215			Received: 23-JAN-15		By: SAP	
MC36583-2	SW846 8270D BY SIM	29-JAN-15 17:02	MR	28-JAN-15	AZ	B8270SIMSL
MC36583-2	SW846 8011	30-JAN-15 02:32	NK	28-JAN-15	MT	V8011SL
MC36583-2	SW846 8270D	30-JAN-15 14:25	KD	28-JAN-15	AZ	AB8270SL+
MC36583-2	SW846 8260C	05-FEB-15 11:04	JB			V8260SL+
MC36583-3 Collected: 22-JAN-15 13:55 By: MW7-ROX-012215			Received: 23-JAN-15		By: SAP	
MC36583-3	SW846 8270D BY SIM	29-JAN-15 17:25	MR	28-JAN-15	AZ	B8270SIMSL
MC36583-3	SW846 8011	30-JAN-15 02:51	NK	28-JAN-15	MT	V8011SL
MC36583-3	SW846 8270D	30-JAN-15 14:49	KD	28-JAN-15	AZ	AB8270SL+
MC36583-3	SW846 8260C	02-FEB-15 17:20	TT			V8260SL+
MC36583-3	SW846 8260C	05-FEB-15 13:53	JB			V8260SL+
MC36583-4 Collected: 22-JAN-15 00:00 By: TB-ROX-012215-HCL			Received: 23-JAN-15		By: SAP	
MC36583-4	SW846 8260C	02-FEB-15 12:37	TT			V8260SL+
MC36583-5 Collected: 22-JAN-15 00:00 By: TB-ROX-012215-ST			Received: 23-JAN-15		By: SAP	
MC36583-5	SW846 8011	30-JAN-15 03:09	NK	28-JAN-15	MT	V8011SL
MC36583-6 Collected: 22-JAN-15 13:55 By: MW7-ROX-012215-DUP			Received: 23-JAN-15		By: SAP	
MC36583-6	SW846 8270D BY SIM	29-JAN-15 17:49	MR	28-JAN-15	AZ	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36583

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36583-6	SW846 8011	30-JAN-15 03:28	NK	28-JAN-15	MT	V8011SL
MC36583-6	SW846 8270D	30-JAN-15 15:14	KD	28-JAN-15	AZ	AB8270SL+
MC36583-6	SW846 8260C	02-FEB-15 17:49	TT			V8260SL+
MC36583-6	SW846 8260C	05-FEB-15 14:22	JB			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/23/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36583-1.1	Walk In Ref #22	Michael DiBuono	01/28/15 14:48	Retrieve from Storage
MC36583-1.1	Michael DiBuono		02/03/15 08:58	Depleted
MC36583-1.3	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36583-1.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36583-1.5	VOC Ref #2	Jaclyn Bergeron	02/05/15 10:12	Retrieve from Storage
MC36583-1.5	Jaclyn Bergeron	GCMSN	02/05/15 10:12	Load on Instrument
MC36583-1.5	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36583-1.5	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:53	Return to Storage
MC36583-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36583-1.6	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36583-1.6	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36583-1.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36583-1.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36583-1.6	Scott Parsick		04/15/15 12:23	Disposed
MC36583-2.1	Walk In Ref #22	Michael DiBuono	01/28/15 14:48	Retrieve from Storage
MC36583-2.1	Michael DiBuono		02/03/15 08:58	Depleted
MC36583-2.3	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36583-2.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36583-2.5	VOC Ref #2	Jaclyn Bergeron	02/05/15 10:12	Retrieve from Storage
MC36583-2.5	Jaclyn Bergeron	GCMSN	02/05/15 10:12	Load on Instrument
MC36583-2.5	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36583-2.5	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:53	Return to Storage
MC36583-2.5	Scott Parsick		04/15/15 12:23	Disposed
MC36583-2.6	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36583-2.6	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36583-2.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36583-2.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36583-2.6	Scott Parsick		04/15/15 12:23	Disposed
MC36583-3.1	Walk In Ref #22	Michael DiBuono	01/28/15 14:48	Retrieve from Storage
MC36583-3.1	Michael DiBuono		02/03/15 08:58	Depleted
MC36583-3.3	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36583-3.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36583-3.5	VOC Ref #2	Jaclyn Bergeron	02/05/15 10:12	Retrieve from Storage
MC36583-3.5	Jaclyn Bergeron	GCMSN	02/05/15 10:12	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/23/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36583-3.5	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36583-3.5	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:53	Return to Storage
MC36583-3.5	Scott Parsick		04/15/15 12:23	Disposed
MC36583-3.6	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36583-3.6	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36583-3.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36583-3.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36583-3.6	Scott Parsick		04/15/15 12:23	Disposed
MC36583-4.1	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36583-4.1	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36583-4.1	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36583-4.1	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36583-4.1	Scott Parsick		04/15/15 12:23	Disposed
MC36583-5.2	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36583-5.2	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36583-6.1	Walk In Ref #22	Michael DiBuono	01/28/15 14:48	Retrieve from Storage
MC36583-6.1	Michael DiBuono		02/03/15 08:58	Depleted
MC36583-6.4	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36583-6.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36583-6.5	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36583-6.5	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36583-6.5	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36583-6.5	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36583-6.5	Scott Parsick		04/15/15 12:23	Disposed
MC36583-6.6	VOC Ref #2	Jaclyn Bergeron	02/05/15 10:12	Retrieve from Storage
MC36583-6.6	Jaclyn Bergeron	GCMSN	02/05/15 10:12	Load on Instrument
MC36583-6.6	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36583-6.6	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:53	Return to Storage
MC36583-6.6	Scott Parsick		04/15/15 12:23	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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	94%	79-121%
460-00-4	4-Bromofluorobenzene	92%	71-133%

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

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	68.1	136	10-147
107-02-8	Acrolein	250	237	95	10-170
107-13-1	Acrylonitrile	50	48.0	96	51-154
71-43-2	Benzene	50	52.2	104	74-127
108-86-1	Bromobenzene	50	54.5	109	77-124
74-97-5	Bromochloromethane	50	60.0	120	76-128
75-27-4	Bromodichloromethane	50	54.2	108	68-156
75-25-2	Bromoform	50	65.5	131	70-134
74-83-9	Bromomethane	50	45.3	91	14-180
78-93-3	2-Butanone (MEK)	50	72.4	145	23-148
104-51-8	n-Butylbenzene	50	59.3	119	75-140
135-98-8	sec-Butylbenzene	50	50.1	100	74-139
98-06-6	tert-Butylbenzene	50	47.8	96	71-141
75-15-0	Carbon disulfide	50	49.4	99	45-156
56-23-5	Carbon tetrachloride	50	57.3	115	67-152
108-90-7	Chlorobenzene	50	54.4	109	76-121
75-00-3	Chloroethane	50	49.3	99	54-177
110-75-8	2-Chloroethyl vinyl ether	50	50.4	101	36-178
67-66-3	Chloroform	50	54.4	109	68-139
74-87-3	Chloromethane	50	35.8	72	33-171
95-49-8	o-Chlorotoluene	50	48.3	97	76-131
106-43-4	p-Chlorotoluene	50	49.3	99	76-130
124-48-1	Dibromochloromethane	50	57.2	114	82-130
95-50-1	1,2-Dichlorobenzene	50	55.9	112	81-127
541-73-1	1,3-Dichlorobenzene	50	53.4	107	80-124
106-46-7	1,4-Dichlorobenzene	50	55.6	111	78-124
75-71-8	Dichlorodifluoromethane	50	46.6	93	10-185
75-34-3	1,1-Dichloroethane	50	49.1	98	69-140
107-06-2	1,2-Dichloroethane	50	47.6	95	64-149
75-35-4	1,1-Dichloroethene	50	48.5	97	58-142
156-59-2	cis-1,2-Dichloroethene	50	54.0	108	68-129
156-60-5	trans-1,2-Dichloroethene	50	54.2	108	61-133
78-87-5	1,2-Dichloropropane	50	50.4	101	74-135
142-28-9	1,3-Dichloropropane	50	55.7	111	76-121
594-20-7	2,2-Dichloropropane	50	57.2	114	62-157
563-58-6	1,1-Dichloropropene	50	48.6	97	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	56.5	113	75-138
10061-02-6	trans-1,3-Dichloropropene	50	48.8	98	70-150
123-91-1	1,4-Dioxane	250	273	109	52-165
97-63-2	Ethyl methacrylate	50	57.2	114	62-138
100-41-4	Ethylbenzene	50	55.4	111	75-129
87-68-3	Hexachlorobutadiene	50	66.0	132	59-150
591-78-6	2-Hexanone	50	64.5	129	28-137
98-82-8	Isopropylbenzene	50	49.0	98	76-138
99-87-6	p-Isopropyltoluene	50	55.5	111	77-137
1634-04-4	Methyl Tert Butyl Ether	50	64.7	129	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.0	100	48-153
74-95-3	Methylene bromide	50	54.9	110	74-134
75-09-2	Methylene chloride	50	49.4	99	62-134
91-20-3	Naphthalene	50	73.2	146	32-196
103-65-1	n-Propylbenzene	50	48.9	98	74-138
100-42-5	Styrene	50	65.2	130	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	62.6	125	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	61.9	124	64-132
127-18-4	Tetrachloroethene	50	58.0	116	68-133
108-88-3	Toluene	50	48.9	98	75-134
87-61-6	1,2,3-Trichlorobenzene	50	66.5	133	51-169
120-82-1	1,2,4-Trichlorobenzene	50	59.7	119	62-146
71-55-6	1,1,1-Trichloroethane	50	52.4	105	66-152
79-00-5	1,1,2-Trichloroethane	50	53.1	106	70-138
79-01-6	Trichloroethene	50	54.5	109	70-131
75-69-4	Trichlorofluoromethane	50	51.7	103	43-168
96-18-4	1,2,3-Trichloropropane	50	62.8	126	61-134
95-63-6	1,2,4-Trimethylbenzene	50	51.9	104	76-133
108-67-8	1,3,5-Trimethylbenzene	50	53.4	107	72-131
108-05-4	Vinyl Acetate	50	109	218* [a]	10-200
75-01-4	Vinyl chloride	50	37.2	74	32-182
	m,p-Xylene	100	118	118	74-129
95-47-6	o-Xylene	50	59.5	119	77-127
1330-20-7	Xylene (total)	150	178	119	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	67-134%
2037-26-5	Toluene-D8	91%	79-121%
460-00-4	4-Bromofluorobenzene	89%	71-133%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	28.3	57	28.4	57	23	10-147/25
107-02-8	Acrolein	250	272	109	277	111	2	10-170/25
107-13-1	Acrylonitrile	50	54.6	109	51.4	103	6	51-154/25
71-43-2	Benzene	50	48.2	96	47.4	95	2	74-127/25
108-86-1	Bromobenzene	50	46.5	93	45.0	90	3	77-124/25
74-97-5	Bromochloromethane	50	49.8	100	51.3	103	3	76-128/25
75-27-4	Bromodichloromethane	50	51.1	102	50.9	102	0	68-156/25
75-25-2	Bromoform	50	52.3	105	51.4	103	2	70-134/25
74-83-9	Bromomethane	50	46.4	93	45.2	90	3	14-180/25
78-93-3	2-Butanone (MEK)	50	50.6	101	49.2	98	3	23-148/25
104-51-8	n-Butylbenzene	50	49.8	100	49.6	99	0	75-140/25
135-98-8	sec-Butylbenzene	50	46.0	92	45.5	91	1	74-139/25
98-06-6	tert-Butylbenzene	50	44.3	89	44.1	88	0	71-141/25
75-15-0	Carbon disulfide	50	44.6	89	45.0	90	1	45-156/25
56-23-5	Carbon tetrachloride	50	51.8	104	51.2	102	1	67-152/25
108-90-7	Chlorobenzene	50	43.9	88	44.1	88	0	76-121/25
75-00-3	Chloroethane	50	46.9	94	47.3	95	1	54-177/25
110-75-8	2-Chloroethyl vinyl ether	50	50.8	102	51.6	103	2	36-178/25
67-66-3	Chloroform	50	47.1	94	47.7	95	1	68-139/25
74-87-3	Chloromethane	50	42.1	84	40.4	81	4	33-171/25
95-49-8	o-Chlorotoluene	50	43.2	86	43.5	87	1	76-131/25
106-43-4	p-Chlorotoluene	50	46.0	92	45.6	91	1	76-130/25
124-48-1	Dibromochloromethane	50	50.3	101	51.6	103	3	82-130/25
95-50-1	1,2-Dichlorobenzene	50	46.1	92	45.3	91	2	81-127/25
541-73-1	1,3-Dichlorobenzene	50	44.3	89	44.1	88	0	80-124/25
106-46-7	1,4-Dichlorobenzene	50	45.8	92	45.5	91	1	78-124/25
75-71-8	Dichlorodifluoromethane	50	39.4	79	38.4	77	3	10-185/25
75-34-3	1,1-Dichloroethane	50	45.1	90	45.4	91	1	69-140/25
107-06-2	1,2-Dichloroethane	50	49.2	98	48.3	97	2	64-149/25
75-35-4	1,1-Dichloroethene	50	46.3	93	46.6	93	1	58-142/25
156-59-2	cis-1,2-Dichloroethene	50	46.3	93	46.6	93	1	68-129/25
156-60-5	trans-1,2-Dichloroethene	50	45.7	91	46.0	92	1	61-133/25
78-87-5	1,2-Dichloropropane	50	49.9	100	50.6	101	1	74-135/25
142-28-9	1,3-Dichloropropane	50	49.0	98	51.2	102	4	76-121/25
594-20-7	2,2-Dichloropropane	50	51.0	102	54.4	109	6	62-157/25
563-58-6	1,1-Dichloropropene	50	46.3	93	46.7	93	1	72-138/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

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	56.0	112	56.3	113	1	75-138/25
10061-02-6	trans-1,3-Dichloropropene	50	55.0	110	54.4	109	1	70-150/25
123-91-1	1,4-Dioxane	250	275	110	248	99	10	52-165/25
97-63-2	Ethyl methacrylate	50	56.9	114	56.2	112	1	62-138/25
100-41-4	Ethylbenzene	50	45.9	92	47.1	94	3	75-129/25
87-68-3	Hexachlorobutadiene	50	52.1	104	51.7	103	1	59-150/25
591-78-6	2-Hexanone	50	52.6	105	52.3	105	1	28-137/25
98-82-8	Isopropylbenzene	50	43.9	88	43.3	87	1	76-138/25
99-87-6	p-Isopropyltoluene	50	47.6	95	47.5	95	0	77-137/25
1634-04-4	Methyl Tert Butyl Ether	50	51.2	102	51.5	103	1	62-134/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.5	113	54.5	109	4	48-153/25
74-95-3	Methylene bromide	50	50.3	101	49.5	99	2	74-134/25
75-09-2	Methylene chloride	50	46.0	92	46.3	93	1	62-134/25
91-20-3	Naphthalene	50	50.5	101	49.0	98	3	32-196/25
103-65-1	n-Propylbenzene	50	44.9	90	45.3	91	1	74-138/25
100-42-5	Styrene	50	47.2	94	48.6	97	3	75-131/25
630-20-6	1,1,1,2-Tetrachloroethane	50	49.6	99	50.3	101	1	78-129/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.5	97	48.3	97	0	64-132/25
127-18-4	Tetrachloroethene	50	46.4	93	47.1	94	1	68-133/25
108-88-3	Toluene	50	47.0	94	46.5	93	1	75-134/25
87-61-6	1,2,3-Trichlorobenzene	50	46.4	93	47.6	95	3	51-169/25
120-82-1	1,2,4-Trichlorobenzene	50	50.8	102	51.6	103	2	62-146/25
71-55-6	1,1,1-Trichloroethane	50	48.9	98	49.7	99	2	66-152/25
79-00-5	1,1,2-Trichloroethane	50	50.9	102	50.5	101	1	70-138/25
79-01-6	Trichloroethene	50	50.3	101	49.9	100	1	70-131/25
75-69-4	Trichlorofluoromethane	50	47.5	95	47.7	95	0	43-168/25
96-18-4	1,2,3-Trichloropropane	50	54.1	108	53.2	106	2	61-134/25
95-63-6	1,2,4-Trimethylbenzene	50	45.6	91	45.4	91	0	76-133/25
108-67-8	1,3,5-Trimethylbenzene	50	49.7	99	49.0	98	1	72-131/25
108-05-4	Vinyl Acetate	50	94.0	188	92.9	186	1	10-200/25
75-01-4	Vinyl chloride	50	45.1	90	46.0	92	2	32-182/25
	m,p-Xylene	100	85.9	86	88.8	89	3	74-129/25
95-47-6	o-Xylene	50	41.9	84	43.0	86	3	77-127/25
1330-20-7	Xylene (total)	150	128	85	132	88	3	75-128/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	67-134%
2037-26-5	Toluene-D8	102%	102%	79-121%
460-00-4	4-Bromofluorobenzene	97%	97%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	MC36585-2 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		250	152	61	250	138	55	10	10-135/30
107-02-8	Acrolein	ND		1250	1510	121	1250	1310	105	14	10-165/30
107-13-1	Acrylonitrile	ND		250	290	116	250	229	92	24	43-165/30
71-43-2	Benzene	ND		250	233	93	250	229	92	2	69-136/30
108-86-1	Bromobenzene	ND		250	211	84	250	221	88	5	74-127/30
74-97-5	Bromochloromethane	ND		250	253	101	250	245	98	3	73-134/30
75-27-4	Bromodichloromethane	ND		250	243	97	250	239	96	2	63-163/30
75-25-2	Bromoform	ND		250	254	102	250	237	95	7	61-140/30
74-83-9	Bromomethane	ND		250	223	89	250	263	105	16	10-175/30
78-93-3	2-Butanone (MEK)	ND		250	269	108	250	217	87	21	19-130/30
104-51-8	n-Butylbenzene	ND		250	230	92	250	238	95	3	65-147/30
135-98-8	sec-Butylbenzene	ND		250	212	85	250	224	90	6	72-143/30
98-06-6	tert-Butylbenzene	ND		250	205	82	250	214	86	4	66-146/30
75-15-0	Carbon disulfide	ND		250	229	92	250	222	89	3	33-170/30
56-23-5	Carbon tetrachloride	ND		250	247	99	250	248	99	0	61-163/30
108-90-7	Chlorobenzene	ND		250	220	88	250	217	87	1	73-127/30
75-00-3	Chloroethane	ND		250	254	102	250	253	101	0	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	248	99	250	242	97	2	10-200/30
67-66-3	Chloroform	ND		250	238	95	250	230	92	3	65-146/30
74-87-3	Chloromethane	ND		250	202	81	250	216	86	7	23-176/30
95-49-8	o-Chlorotoluene	ND		250	205	82	250	214	86	4	67-142/30
106-43-4	p-Chlorotoluene	ND		250	214	86	250	225	90	5	70-137/30
124-48-1	Dibromochloromethane	ND		250	246	98	250	240	96	2	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		250	211	84	250	217	87	3	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		250	204	82	250	213	85	4	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		250	206	82	250	216	86	5	75-126/30
75-71-8	Dichlorodifluoromethane	ND		250	199	80	250	223	89	11	10-184/30
75-34-3	1,1-Dichloroethane	ND		250	230	92	250	222	89	4	66-148/30
107-06-2	1,2-Dichloroethane	ND		250	240	96	250	227	91	6	59-157/30
75-35-4	1,1-Dichloroethene	ND		250	234	94	250	226	90	3	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		250	238	95	250	233	93	2	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		250	233	93	250	225	90	3	57-142/30
78-87-5	1,2-Dichloropropane	ND		250	244	98	250	237	95	3	70-142/30
142-28-9	1,3-Dichloropropane	ND		250	246	98	250	237	95	4	73-126/30
594-20-7	2,2-Dichloropropane	ND		250	281	112	250	263	105	7	45-168/30
563-58-6	1,1-Dichloropropene	ND		250	222	89	250	224	90	1	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Compound	MC36585-2 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		250	272	109	250	263	105	3	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	266	106	250	251	100	6	64-153/30
123-91-1	1,4-Dioxane	ND		1250	1200	96	1250	1160	93	3	38-165/30
97-63-2	Ethyl methacrylate	ND		250	282	113	250	258	103	9	54-149/30
100-41-4	Ethylbenzene	ND		250	227	91	250	223	89	2	67-141/30
87-68-3	Hexachlorobutadiene	ND		250	241	96	250	249	100	3	52-152/30
591-78-6	2-Hexanone	ND		250	269	108	250	219	88	20	25-118/30
98-82-8	Isopropylbenzene	ND		250	207	83	250	218	87	5	71-144/30
99-87-6	p-Isopropyltoluene	ND		250	222	89	250	232	93	4	72-141/30
1634-04-4	Methyl Tert Butyl Ether	1.7		250	266	106	250	235	93	12	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	285	114	250	241	96	17	46-158/30
74-95-3	Methylene bromide	ND		250	244	98	250	227	91	7	70-141/30
75-09-2	Methylene chloride	ND		250	236	94	250	231	92	2	58-143/30
91-20-3	Naphthalene	ND		250	235	94	250	177	71	28	19-200/30
103-65-1	n-Propylbenzene	ND		250	214	86	250	222	89	4	67-145/30
100-42-5	Styrene	ND		250	226	90	250	231	92	2	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	241	96	250	236	94	2	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	235	94	250	229	92	3	61-137/30
127-18-4	Tetrachloroethene	ND		250	221	88	250	223	89	1	64-139/30
108-88-3	Toluene	ND		250	230	92	250	229	92	0	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	231	92	250	182	73	24	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	242	97	250	212	85	13	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		250	251	100	250	238	95	5	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		250	246	98	250	235	94	5	65-145/30
79-01-6	Trichloroethene	ND		250	241	96	250	237	95	2	64-139/30
75-69-4	Trichlorofluoromethane	ND		250	264	106	250	250	100	5	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		250	262	105	250	248	99	5	53-137/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	210	84	250	220	88	5	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	225	90	250	241	96	7	68-135/30
108-05-4	Vinyl Acetate	ND		250	488	195	250	420	168	15	10-200/30
75-01-4	Vinyl chloride	ND		250	240	96	250	249	100	4	25-187/30
	m,p-Xylene	ND		500	419	84	500	415	83	1	67-138/30
95-47-6	o-Xylene	ND		250	202	81	250	203	81	0	72-135/30
1330-20-7	Xylene (total)	ND		750	621	83	750	618	82	0	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36583-1, MC36583-3, MC36583-4, MC36583-6

CAS No.	Surrogate Recoveries	MS	MSD	MC36585-2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	99%	67-134%
2037-26-5	Toluene-D8	100%	100%	97%	79-121%
460-00-4	4-Bromofluorobenzene	97%	99%	96%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	MC36601-4 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		25000	16900	68	25000	16000	64	5	10-135/30
107-02-8	Acrolein	ND		125000	140000	112	125000	140000	112	0	10-165/30
107-13-1	Acrylonitrile	ND		25000	28300	113	25000	25700	103	10	43-165/30
71-43-2	Benzene	107000		25000	125000	72	25000	125000	72	0	69-136/30
108-86-1	Bromobenzene	ND		25000	21500	86	25000	21600	86	0	74-127/30
74-97-5	Bromochloromethane	ND		25000	26000	104	25000	24800	99	5	73-134/30
75-27-4	Bromodichloromethane	ND		25000	24400	98	25000	24500	98	0	63-163/30
75-25-2	Bromoform	ND		25000	24600	98	25000	24200	97	2	61-140/30
74-83-9	Bromomethane	ND		25000	22000	88	25000	23900	96	8	10-175/30
78-93-3	2-Butanone (MEK)	ND		25000	25600	102	25000	24800	99	3	19-130/30
104-51-8	n-Butylbenzene	ND		25000	23100	92	25000	23300	93	1	65-147/30
135-98-8	sec-Butylbenzene	ND		25000	21900	88	25000	21600	86	1	72-143/30
98-06-6	tert-Butylbenzene	ND		25000	21200	85	25000	20900	84	1	66-146/30
75-15-0	Carbon disulfide	ND		25000	23100	92	25000	22500	90	3	33-170/30
56-23-5	Carbon tetrachloride	ND		25000	24200	97	25000	23900	96	1	61-163/30
108-90-7	Chlorobenzene	ND		25000	21600	86	25000	21600	86	0	73-127/30
75-00-3	Chloroethane	ND		25000	24700	99	25000	24500	98	1	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		25000	25200	101	25000	24900	100	1	10-200/30
67-66-3	Chloroform	ND		25000	23700	95	25000	23300	93	2	65-146/30
74-87-3	Chloromethane	ND		25000	19400	78	25000	21600	86	11	23-176/30
95-49-8	o-Chlorotoluene	ND		25000	20900	84	25000	20700	83	1	67-142/30
106-43-4	p-Chlorotoluene	ND		25000	21600	86	25000	21500	86	0	70-137/30
124-48-1	Dibromochloromethane	ND		25000	24300	97	25000	24000	96	1	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		25000	21600	86	25000	21600	86	0	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		25000	20900	83	25000	20500	81	2	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		25000	20900	83	25000	21600	86	3	75-126/30
75-71-8	Dichlorodifluoromethane	ND		25000	19100	76	25000	20500	82	7	10-184/30
75-34-3	1,1-Dichloroethane	ND		25000	22800	91	25000	22500	90	1	66-148/30
107-06-2	1,2-Dichloroethane	ND		25000	23700	95	25000	23500	94	1	59-157/30
75-35-4	1,1-Dichloroethene	ND		25000	23500	94	25000	23300	93	1	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		25000	23600	94	25000	24000	96	2	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		25000	23500	94	25000	23300	93	1	57-142/30
78-87-5	1,2-Dichloropropane	ND		25000	24700	99	25000	24400	98	1	70-142/30
142-28-9	1,3-Dichloropropane	ND		25000	25400	102	25000	24200	97	5	73-126/30
594-20-7	2,2-Dichloropropane	ND		25000	24600	98	25000	24100	96	2	45-168/30
563-58-6	1,1-Dichloropropene	ND		25000	22200	89	25000	22100	88	0	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	MC36601-4 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		25000	26400	106	25000	26300	105	0	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		25000	25200	101	25000	25800	103	2	64-153/30
123-91-1	1,4-Dioxane	ND		125000	142000	114	125000	131000	105	8	38-165/30
97-63-2	Ethyl methacrylate	ND		25000	33500	134	25000	27300	109	20	54-149/30
100-41-4	Ethylbenzene	773		25000	22800	88	25000	23000	89	1	67-141/30
87-68-3	Hexachlorobutadiene	ND		25000	24100	96	25000	24200	97	0	52-152/30
591-78-6	2-Hexanone	ND		25000	25800	103	25000	24900	100	4	25-118/30
98-82-8	Isopropylbenzene	ND		25000	21000	84	25000	20900	84	0	71-144/30
99-87-6	p-Isopropyltoluene	ND		25000	22300	89	25000	22900	92	3	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND		25000	25300	101	25000	25000	100	1	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25000	28100	112	25000	26700	107	5	46-158/30
74-95-3	Methylene bromide	ND		25000	24400	98	25000	24300	97	0	70-141/30
75-09-2	Methylene chloride	ND		25000	24100	96	25000	23800	95	1	58-143/30
91-20-3	Naphthalene	ND		25000	21400	86	25000	22800	91	6	19-200/30
103-65-1	n-Propylbenzene	ND		25000	21700	87	25000	21600	86	0	67-145/30
100-42-5	Styrene	ND		25000	25500	102	25000	24700	99	3	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		25000	23600	94	25000	23300	93	1	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		25000	24000	96	25000	22900	92	5	61-137/30
127-18-4	Tetrachloroethene	ND		25000	21800	87	25000	21500	86	1	64-139/30
108-88-3	Toluene	ND		25000	26500	106	25000	22700	91	15	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		25000	21100	84	25000	22300	89	6	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		25000	22500	90	25000	24200	97	7	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		25000	24700	99	25000	24300	97	2	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		25000	24600	98	25000	24800	99	1	65-145/30
79-01-6	Trichloroethene	ND		25000	24200	97	25000	23800	95	2	64-139/30
75-69-4	Trichlorofluoromethane	ND		25000	24700	99	25000	24200	97	2	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		25000	26200	105	25000	25100	100	4	53-137/30
95-63-6	1,2,4-Trimethylbenzene	652	J	25000	22200	86	25000	22100	86	0	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		25000	23600	94	25000	23400	93	1	68-135/30
108-05-4	Vinyl Acetate	ND		25000	48200	193	25000	47600	190	1	10-200/30
75-01-4	Vinyl chloride	ND		25000	22100	88	25000	22500	90	2	25-187/30
	m,p-Xylene	342	J	50000	41300	82	50000	41400	82	0	67-138/30
95-47-6	o-Xylene	ND		25000	20200	81	25000	20500	82	1	72-135/30
1330-20-7	Xylene (total)	342	J	75000	61500	82	75000	61900	82	1	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Surrogate Recoveries	MS	MSD	MC36601-4	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	67-134%
2037-26-5	Toluene-D8	99%	100%	100%	79-121%
460-00-4	4-Bromofluorobenzene	97%	97%	103%	71-133%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3490-CC3452	**Injection Date:**	02/02/15
Lab File ID:	N94600.D	**Injection Time:**	09:20
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	283152	9.11	395047	9.98	210958	13.23	196265	15.79	108649	6.71
Upper Limit [a]	566304	9.61	790094	10.48	421916	13.73	392530	16.29	217298	7.21
Lower Limit [b]	141576	8.61	197524	9.48	105479	12.73	98133	15.29	54325	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3490-BS	294644	9.11	444197	9.98	203211	13.23	197138	15.79	96790	6.71
MSN3490-MB	290920	9.11	404662	9.98	179460	13.23	164129	15.79	108506	6.74
ZZZZZZ	288077	9.11	423944	9.98	195003	13.23	162170	15.79	112585	6.73
MC36583-4	288438	9.12	418467	9.98	188620	13.24	160767	15.79	99252	6.74
ZZZZZZ	286835	9.12	414795	9.98	188118	13.24	156639	15.79	93791	6.73
MC36585-2	284407	9.12	383324	9.98	190027	13.24	160767	15.79	96620	6.73
ZZZZZZ	270233	9.12	382964	9.98	174130	13.24	160681	15.79	102537	6.74
ZZZZZZ	282566	9.11	419074	9.98	190853	13.24	166420	15.79	98277	6.73
ZZZZZZ	284455	9.12	412857	9.98	192314	13.24	159820	15.79	108196	6.74
ZZZZZZ	269963	9.11	385642	9.98	178219	13.24	167523	15.79	108977	6.73
MC36583-1	262594	9.12	382071	9.98	172721	13.24	153149	15.79	82079	6.74
MC36583-3	262154	9.12	386327	9.98	176463	13.23	151159	15.79	77493	6.74
MC36583-6	257326	9.11	371786	9.98	173259	13.23	153716	15.79	77730	6.73
ZZZZZZ	282993	9.12	430229	9.98	197477	13.24	160247	15.79	88418	6.74
ZZZZZZ	286342	9.11	429133	9.98	199098	13.23	151428	15.79	87383	6.74
ZZZZZZ	281127	9.12	376148	9.99	149581	13.24	133567	15.79	85221	6.74

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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3492-CC3491	**Injection Date:**	02/05/15
Lab File ID:	N94686.D	**Injection Time:**	09:11
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
Upper Limit [a]	794274	9.62	1216106	10.48	736190	13.73	515180	16.29	464370	7.21
Lower Limit [b]	198569	8.62	304027	9.48	184048	12.73	128795	15.29	116093	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3492-BS	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
MSN3490-BS1	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
MSN3492-BSD	395673	9.11	614415	9.98	363153	13.23	259866	15.79	222591	6.71
MSN3492-MB	381294	9.12	601320	9.99	345430	13.24	231732	15.79	250742	6.74
MSN3490-MB1	381294	9.12	601320	9.99	345430	13.24	231732	15.79	250742	6.74
MC36583-2	377925	9.12	605037	9.98	352968	13.23	237537	15.79	256625	6.73
ZZZZZZ	378485	9.11	594809	9.98	346944	13.23	212631	15.79	154037	6.75
MC36585-2MS	373914	9.12	599550	9.98	356884	13.23	261113	15.79	241909	6.71
MC36585-2MSD	401125	9.11	633183	9.98	374129	13.23	256843	15.79	185874	6.71
MC36583-1	384426	9.11	598241	9.98	348241	13.23	235202	15.79	207729	6.74
MC36601-4	387808	9.11	616213	9.98	359089	13.23	233753	15.79	247771	6.74
MC36583-3	379494	9.11	591228	9.98	338627	13.23	215528	15.79	165908	6.75
MC36583-6	382083	9.11	597327	9.98	356994	13.23	231889	15.79	265979	6.73
ZZZZZZ	381321	9.11	596199	9.98	331495	13.24	202479	15.79	148963	6.75
ZZZZZZ	378328	9.12	601055	9.98	348223	13.24	230924	15.79	258863	6.73
ZZZZZZ	381899	9.12	609890	9.98	340067	13.23	219418	15.79	224420	6.75
ZZZZZZ	377534	9.12	589330	9.98	336034	13.23	211978	15.79	176284	6.74
ZZZZZZ	376516	9.12	598139	9.98	343937	13.24	233950	15.79	223536	6.74
ZZZZZZ	370678	9.11	585258	9.98	333034	13.24	224371	15.79	231304	6.74
ZZZZZZ	374034	9.12	589859	9.99	342745	13.23	221844	15.79	205353	6.74
ZZZZZZ	377782	9.12	600244	9.99	341856	13.23	222068	15.79	210599	6.74
ZZZZZZ	375525	9.12	606070	9.99	344137	13.23	227483	15.79	266536	6.74
MC36601-4MS	377271	9.11	609031	9.98	364472	13.23	255386	15.79	226252	6.71
MC36601-4MSD	383355	9.12	613031	9.98	371230	13.23	265072	15.79	215806	6.71
ZZZZZZ	392088	9.11	627338	9.98	356295	13.23	238798	15.79	214057	6.74
ZZZZZZ	394535	9.11	616512	9.98	354978	13.23	232680	15.79	204243	6.74

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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36583-1	N94694.D	100	101	102
MC36583-1	N94615.D	96	97	96
MC36583-2	N94690.D	102	99	101
MC36583-3	N94696.D	100	100	106
MC36583-3	N94617.D	96	97	97
MC36583-4	N94607.D	97	96	96
MC36583-6	N94697.D	102	102	103
MC36583-6	N94618.D	94	98	96
MC36585-2MS	N94692.D	101	100	97
MC36585-2MSD	N94693.D	98	100	99
MC36601-4MS	N94707.D	100	99	97
MC36601-4MSD	N94708.D	100	100	97
MSN3490-BS	N94601.D	103	91	89
MSN3490-MB	N94604.D	100	94	92
MSN3492-BS	N94686.D	100	102	97
MSN3492-BSD	N94687.D	100	102	97
MSN3492-MB	N94689.D	100	100	100
MSN3490-MB1	N94689.D	100	100	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-134%
S2 = Toluene-D8	79-121%
S3 = 4-Bromofluorobenzene	71-133%

GC/MS Semi-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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-MB	W20121.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-MB	W20121.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	10-73%
4165-62-2	Phenol-d5	34%	10-58%
118-79-6	2,4,6-Tribromophenol	78%	15-125%
4165-60-0	Nitrobenzene-d5	78%	23-120%
321-60-8	2-Fluorobiphenyl	75%	31-102%
1718-51-0	Terphenyl-d14	95%	42-124%

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

Method Blank Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41827-MB	I94065.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	0.026	0.050	0.024	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	0.021	0.10	0.013	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	0.036	0.10	0.0074	ug/l	J
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	0.024	0.050	0.011	ug/l	J
129-00-0	Pyrene	0.036	0.10	0.0085	ug/l	J

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	71%	30-130%
1718-51-0	Terphenyl-d14	97%	30-130%

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-BS	W20122.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	17.9	36	10-67
95-57-8	2-Chlorophenol	50	30.4	61	47-99
59-50-7	4-Chloro-3-methyl phenol	50	32.6	65	51-112
120-83-2	2,4-Dichlorophenol	50	32.6	65	51-110
105-67-9	2,4-Dimethylphenol	50	23.7	47	31-108
51-28-5	2,4-Dinitrophenol	50	30.7	61	10-121
534-52-1	4,6-Dinitro-o-cresol	50	39.9	80	35-135
95-48-7	2-Methylphenol	50	26.9	54	20-112
	3&4-Methylphenol	100	51.7	52	19-102
88-75-5	2-Nitrophenol	50	32.5	65	50-109
100-02-7	4-Nitrophenol	50	18.2	36	10-95
87-86-5	Pentachlorophenol	50	38.2	76	28-117
108-95-2	Phenol	50	13.4	27	21-49
95-95-4	2,4,5-Trichlorophenol	50	38.6	77	56-112
88-06-2	2,4,6-Trichlorophenol	50	34.6	69	54-112
62-53-3	Aniline	50	23.2	46	30-81
101-55-3	4-Bromophenyl phenyl ether	50	37.1	74	56-125
85-68-7	Butyl benzyl phthalate	50	44.2	88	59-138
100-51-6	Benzyl Alcohol	50	31.4	63	19-101
91-58-7	2-Chloronaphthalene	50	34.7	69	54-110
106-47-8	4-Chloroaniline	50	29.8	60	47-99
111-91-1	bis(2-Chloroethoxy)methane	50	33.6	67	50-116
111-44-4	bis(2-Chloroethyl)ether	50	32.0	64	45-123
108-60-1	bis(2-Chloroisopropyl)ether	50	40.0	80	28-160
7005-72-3	4-Chlorophenyl phenyl ether	50	36.7	73	57-117
122-66-7	1,2-Diphenylhydrazine	50	35.9	72	60-120
121-14-2	2,4-Dinitrotoluene	50	41.0	82	62-121
606-20-2	2,6-Dinitrotoluene	50	35.8	72	61-115
91-94-1	3,3'-Dichlorobenzidine	50	41.8	84	49-137
132-64-9	Dibenzofuran	50	35.8	72	56-105
84-74-2	Di-n-butyl phthalate	50	42.1	84	63-119
117-84-0	Di-n-octyl phthalate	50	45.5	91	52-160
84-66-2	Diethyl phthalate	50	40.3	81	44-127
131-11-3	Dimethyl phthalate	50	37.1	74	10-138
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.6	89	63-145
118-74-1	Hexachlorobenzene	50	38.9	78	49-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-BS	W20122.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	14.7	29	10-89
67-72-1	Hexachloroethane	50	24.7	49	22-86
78-59-1	Isophorone	50	30.5	61	52-115
88-74-4	2-Nitroaniline	50	38.6	77	59-118
99-09-2	3-Nitroaniline	50	33.9	68	57-110
100-01-6	4-Nitroaniline	50	42.1	84	54-118
98-95-3	Nitrobenzene	50	32.5	65	50-117
62-75-9	n-Nitrosodimethylamine	50	24.8	50	15-83
621-64-7	N-Nitroso-di-n-propylamine	50	37.2	74	47-131
86-30-6	N-Nitrosodiphenylamine	50	36.0	72	59-109
110-86-1	Pyridine	50	14.2	28	19-69

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	10-73%
4165-62-2	Phenol-d5	29%	10-58%
118-79-6	2,4,6-Tribromophenol	77%	15-125%
4165-60-0	Nitrobenzene-d5	66%	23-120%
321-60-8	2-Fluorobiphenyl	65%	31-102%
1718-51-0	Terphenyl-d14	91%	42-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41827-BS	I94066.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	32.8	66	45-120
208-96-8	Acenaphthylene	50	33.5	67	31-120
120-12-7	Anthracene	50	36.7	73	51-120
56-55-3	Benzo(a)anthracene	50	45.4	91	46-139
50-32-8	Benzo(a)pyrene	50	44.3	89	39-125
205-99-2	Benzo(b)fluoranthene	50	44.1	88	41-137
191-24-2	Benzo(g,h,i)perylene	50	44.2	88	47-132
207-08-9	Benzo(k)fluoranthene	50	40.6	81	46-131
218-01-9	Chrysene	50	41.9	84	43-129
53-70-3	Dibenzo(a,h)anthracene	50	43.3	87	42-138
206-44-0	Fluoranthene	50	43.5	87	47-134
86-73-7	Fluorene	50	34.2	68	45-123
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.4	89	41-137
90-12-0	1-Methylnaphthalene	50	28.7	57	39-120
91-57-6	2-Methylnaphthalene	50	29.2	58	22-126
85-01-8	Phenanthrene	50	35.8	72	51-120
129-00-0	Pyrene	50	45.0	90	44-131

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	63%	30-130%
1718-51-0	Terphenyl-d14	97%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-MS	W20123.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
OP41826-MSD	W20130.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
MC36600-20	W20133.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	MC36600-20 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		50	20.7	41	50	20.2	40	2	10-76/20
95-57-8	2-Chlorophenol	ND		50	38.5	77	50	40.7	81	6	37-112/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	41.1	82	50	42.3	85	3	43-115/20
120-83-2	2,4-Dichlorophenol	ND		50	41.5	83	50	41.9	84	1	47-119/20
105-67-9	2,4-Dimethylphenol	ND		50	36.0	72	50	33.7	67	7	15-118/20
51-28-5	2,4-Dinitrophenol	ND		50	36.0	72	50	20.4	41	55* [a]	10-165/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	44.0	88	50	34.3	69	25* [a]	13-165/20
95-48-7	2-Methylphenol	ND		50	35.7	71	50	36.5	73	2	30-99/20
	3&4-Methylphenol	ND		100	66.7	67	100	67.8	68	2	32-89/20
88-75-5	2-Nitrophenol	ND		50	42.4	85	50	42.8	86	1	44-120/20
100-02-7	4-Nitrophenol	ND		50	17.7	35	50	15.2	30	15	10-93/20
87-86-5	Pentachlorophenol	ND		50	40.8	82	50	39.7	79	3	33-131/20
108-95-2	Phenol	ND		50	16.0	32	50	15.9	32	1	15-53/20
95-95-4	2,4,5-Trichlorophenol	ND		50	46.5	93	50	44.2	88	5	45-126/20
88-06-2	2,4,6-Trichlorophenol	ND		50	42.4	85	50	43.1	86	2	45-124/20
62-53-3	Aniline	ND		50	33.0	66	50	34.2	68	4	18-91/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	42.4	85	50	43.1	86	2	57-131/20
85-68-7	Butyl benzyl phthalate	ND		50	48.0	96	50	48.3	97	1	58-135/20
100-51-6	Benzyl Alcohol	ND		50	40.2	80	50	42.8	86	6	10-109/20
91-58-7	2-Chloronaphthalene	ND		50	44.9	90	50	44.0	88	2	51-123/20
106-47-8	4-Chloroaniline	ND		50	39.1	78	50	38.3	77	2	39-109/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	42.4	85	50	45.3	91	7	36-120/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	41.3	83	50	42.1	84	2	30-124/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	50.8	102	50	51.7	103	2	25-171/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	44.9	90	50	45.2	90	1	51-122/20
122-66-7	1,2-Diphenylhydrazine	ND		50	43.5	87	50	44.1	88	1	47-130/20
121-14-2	2,4-Dinitrotoluene	ND		50	46.9	94	50	46.2	92	2	57-131/20
606-20-2	2,6-Dinitrotoluene	ND		50	42.5	85	50	43.6	87	3	52-135/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	45.7	91	50	47.8	96	4	25-157/20
132-64-9	Dibenzofuran	ND		50	44.6	89	50	43.8	88	2	54-110/20
84-74-2	Di-n-butyl phthalate	0.23	J	50	45.4	90	50	45.9	91	1	60-122/20
117-84-0	Di-n-octyl phthalate	ND		50	47.4	95	50	48.5	97	2	54-142/20
84-66-2	Diethyl phthalate	ND		50	46.0	92	50	45.3	91	2	40-132/20
131-11-3	Dimethyl phthalate	ND		50	44.4	89	50	44.8	90	1	13-149/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	49.0	98	50	49.1	98	0	59-139/20
118-74-1	Hexachlorobenzene	ND		50	43.8	88	50	43.8	88	0	56-135/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41826-MS	W20123.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
OP41826-MSD	W20130.D	1	01/30/15	KD	01/28/15	OP41826	MSW877
MC36600-20	W20133.D	1	01/30/15	KD	01/28/15	OP41826	MSW877

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	MC36600-20 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	22.0	44	50	13.7	27	46* [a]	10-73/20
67-72-1	Hexachloroethane	ND		50	32.3	65	50	30.3	61	6	13-103/20
78-59-1	Isophorone	ND		50	38.3	77	50	39.8	80	4	41-110/20
88-74-4	2-Nitroaniline	ND		50	47.9	96	50	47.0	94	2	57-126/20
99-09-2	3-Nitroaniline	ND		50	38.3	77	50	36.0	72	6	53-118/20
100-01-6	4-Nitroaniline	ND		50	46.4	93	50	43.1	86	7	50-119/20
98-95-3	Nitrobenzene	ND		50	39.1	78	50	41.2	82	5	35-127/20
62-75-9	n-Nitrosodimethylamine	ND		50	31.3	63	50	33.0	66	5	11-82/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	45.8	92	50	44.5	89	3	39-129/20
86-30-6	N-Nitrosodiphenylamine	ND		50	41.4	83	50	41.3	83	0	55-112/20
110-86-1	Pyridine	ND		50	24.9	50	50	25.8	52	4	15-71/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-20	Limits
367-12-4	2-Fluorophenol	49%	50%	45%	10-79%
4165-62-2	Phenol-d5	34%	35%	32%	10-72%
118-79-6	2,4,6-Tribromophenol	88%	89%	78%	35-138%
4165-60-0	Nitrobenzene-d5	80%	86%	72%	30-116%
321-60-8	2-Fluorobiphenyl	79%	78%	72%	35-107%
1718-51-0	Terphenyl-d14	98%	98%	99%	43-135%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41827-MS	I94067.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
OP41827-MSD	I94068.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509
MC36600-21	I94069.D	1	01/29/15	MR	01/28/15	OP41827	MSI3509

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

MC36583-1, MC36583-2, MC36583-3, MC36583-6

CAS No.	Compound	MC36600-21 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	40.4	81	1	41-120/20
208-96-8	Acenaphthylene	ND		50	41.3	83	50	41.7	83	1	30-120/20
120-12-7	Anthracene	ND		50	41.4	83	50	40.8	82	1	47-120/20
56-55-3	Benzo(a)anthracene	ND		50	48.6	97	50	48.6	97	0	36-139/20
50-32-8	Benzo(a)pyrene	ND		50	47.9	96	50	48.6	97	1	29-126/20
205-99-2	Benzo(b)fluoranthene	ND		50	48.3	97	50	45.9	92	5	31-137/20
191-24-2	Benzo(g,h,i)perylene	ND		50	47.8	96	50	46.7	93	2	35-134/20
207-08-9	Benzo(k)fluoranthene	ND		50	42.7	85	50	45.1	90	5	34-133/20
218-01-9	Chrysene	ND		50	44.9	90	50	44.9	90	0	34-129/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	46.3	93	50	46.0	92	1	29-140/20
206-44-0	Fluoranthene	0.021	J	50	47.0	94	50	46.7	93	1	42-132/20
86-73-7	Fluorene	ND		50	40.4	81	50	40.9	82	1	40-122/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	47.7	95	50	47.2	94	1	28-139/20
90-12-0	1-Methylnaphthalene	ND		50	35.2	70	50	36.4	73	3	33-120/20
91-57-6	2-Methylnaphthalene	ND		50	36.2	72	50	37.1	74	2	20-125/20
85-01-8	Phenanthrene	0.017	J	50	39.9	80	50	40.1	80	1	47-120/20
129-00-0	Pyrene	0.020	J	50	48.5	97	50	47.7	95	2	38-130/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-21	Limits
4165-60-0	Nitrobenzene-d5	80%	84%	77%	30-130%
321-60-8	2-Fluorobiphenyl	74%	76%	67%	30-130%
1718-51-0	Terphenyl-d14	101%	102%	106%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3509-CC3483	**Injection Date:**	01/29/15
Lab File ID:	I94051.D	**Injection Time:**	08:13
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	201885	3.65	382624	4.69	216901	6.21	379064	7.53	256405	10.29	656558	11.73
Upper Limit [a]	403770	4.15	765248	5.19	433802	6.71	758128	8.03	512810	10.79	1313116	12.23
Lower Limit [b]	100943	3.15	191312	4.19	108451	5.71	189532	7.03	128203	9.79	328279	11.23

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
OP41771-MB	193755	3.65	372207	4.69	208986	6.21	358134	7.53	244036	10.29	623259	11.73
OP41771-BS	197422	3.65	381891	4.69	208628	6.21	371536	7.53	253026	10.30	626926	11.73
OP41771-MS	233799	3.65	450814	4.69	245665	6.21	440348	7.53	307941	10.30	770760	11.74
OP41771-MSD	233732	3.65	457730	4.69	249808	6.21	444571	7.53	304105	10.30	740268	11.73
MC36600-4	179745	3.65	350937	4.69	197794	6.21	337501	7.53	228793	10.29	592593	11.73
ZZZZZZ	260655	3.65	504870	4.69	287198	6.21	489475	7.53	336270	10.30	854702	11.73
OP41787-MB	222663	3.65	433927	4.69	245372	6.21	424405	7.53	287443	10.29	725717	11.73
OP41787-BS	293250	3.65	577070	4.69	319079	6.21	571274	7.53	398254	10.30	962549	11.74
OP41787-MS	257397	3.65	517064	4.69	291520	6.21	527421	7.53	383755	10.30	954723	11.74
OP41787-MSD	244333	3.65	491152	4.69	272553	6.21	495069	7.53	347163	10.30	846139	11.74
MC36600-8	223243	3.65	434459	4.69	251248	6.21	429925	7.53	294259	10.29	730512	11.73
ZZZZZZ	243272	3.65	471361	4.69	267479	6.21	463510	7.53	325771	10.30	801419	11.74
ZZZZZZ	226864	3.65	443931	4.69	249347	6.21	433519	7.53	302987	10.30	780918	11.73
OP41827-MB	249630	3.65	486548	4.69	279957	6.21	479249	7.53	347332	10.30	891998	11.74
OP41827-BS	239432	3.65	474084	4.69	261577	6.21	467941	7.53	325792	10.30	806102	11.74
OP41827-MS	227192	3.65	448695	4.69	245628	6.21	432854	7.53	301141	10.30	743653	11.74
OP41827-MSD	254934	3.65	512250	4.69	285570	6.21	524566	7.53	365915	10.30	893508	11.74
MC36600-21	253643	3.65	501581	4.69	285422	6.21	493712	7.53	345213	10.29	872303	11.73
ZZZZZZ	248382	3.65	490880	4.69	281954	6.21	489472	7.53	349643	10.30	903996	11.73
MC36583-1	222488	3.65	472109	4.69	260631	6.21	444056	7.53	322530	10.30	783563	11.74
MC36583-2	188614	3.65	373089	4.69	210462	6.21	365378	7.53	257754	10.29	654771	11.73
MC36583-3	239568	3.66	485990	4.69	283212	6.21	490810	7.53	352307	10.30	862321	11.74
MC36583-6	236127	3.65	477187	4.69	278597	6.21	483220	7.53	354741	10.30	869188	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

(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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW877-CC868	**Injection Date:**	01/30/15
Lab File ID:	W20120.D	**Injection Time:**	07:53
Instrument ID:	GCMSW	**Method:**	SW846 8270D

	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	170293	4.52	570231	5.63	361176	7.17	602379	8.43	650595	10.83	606328	12.38
Upper Limit [a]	340586	5.02	1140462	6.13	722352	7.67	1204758	8.93	1301190	11.33	1212656	12.88
Lower Limit [b]	85147	4.02	285116	5.13	180588	6.67	301190	7.93	325298	10.33	303164	11.88

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
OP41826-MB	171270	4.52	599393	5.63	381011	7.16	643541	8.43	663664	10.82	625649	12.37
OP41826-BS	176334	4.52	608876	5.63	377694	7.16	632504	8.43	660595	10.82	616007	12.38
OP41826-MS	169678	4.52	583695	5.63	360467	7.16	606604	8.43	623784	10.83	606644	12.38
OP41854-MB	193343	4.52	666613	5.63	430877	7.16	720592	8.43	730475	10.82	652389	12.37
OP41854-BS	198140	4.53	685704	5.63	433032	7.16	717747	8.43	712934	10.83	669393	12.38
OP41854-MS	195656	4.53	674495	5.64	433761	7.17	660660	8.43	643626	10.83	589121	12.38
OP41854-MSD	172885	4.53	598660	5.64	368179	7.17	585156	8.43	569738	10.83	514118	12.39
MC36656-5	168030	4.53	583025	5.63	364040	7.17	578611	8.43	544467	10.82	489683	12.38
ZZZZZZ	176369	4.53	599512	5.63	380077	7.16	626842	8.43	603376	10.82	536265	12.38
OP41826-MSD	165763	4.52	559852	5.63	359364	7.16	584576	8.43	583627	10.83	550580	12.38
ZZZZZZ	162380	4.52	547481	5.63	334743	7.16	550741	8.43	549505	10.82	530042	12.38
ZZZZZZ	162380	4.52	547481	5.63	334743	7.16	550741	8.43	549505	10.82	530042	12.38
ZZZZZZ	162205	4.52	546540	5.63	346032	7.16	562851	8.43	566743	10.82	530081	12.38
ZZZZZZ	162205	4.52	546540	5.63	346032	7.16	562851	8.43	566743	10.82	530081	12.38
MC36600-20	162804	4.52	568838	5.63	352802	7.16	589693	8.43	592494	10.82	567031	12.38
ZZZZZZ	175393	4.52	582774	5.63	373725	7.16	605393	8.43	611987	10.82	581394	12.38
MC36583-1	181372	4.53	621258	5.63	389940	7.16	638059	8.43	624822	10.83	580506	12.38
MC36583-2	166449	4.52	575462	5.63	365580	7.16	603324	8.43	618171	10.82	589926	12.38
MC36583-3	180767	4.53	632763	5.63	392705	7.16	647750	8.43	638175	10.82	586872	12.38
MC36583-6	179330	4.53	626014	5.63	387993	7.16	640448	8.43	634502	10.82	577285	12.38
OP41788-LB	163591	4.52	555406	5.63	346296	7.16	561850	8.43	570345	10.82	543984	12.38
OP41788-MB	163591	4.52	555406	5.63	346296	7.16	561850	8.43	570345	10.82	543984	12.38
OP41788-BS	161736	4.52	571818	5.63	351142	7.16	582003	8.43	591360	10.83	559432	12.38
OP41788-MS	136378	4.52	483371	5.63	302755	7.16	493986	8.43	518595	10.82	485407	12.38
OP41788-MSD	142446	4.52	498578	5.63	314649	7.16	507975	8.43	510393	10.82	491197	12.38
MC36480-1	144117	4.52	492243	5.63	309147	7.16	505034	8.43	516404	10.82	483325	12.38
OP41850-MB	174583	4.52	591545	5.63	367645	7.16	609183	8.43	576649	10.82	503320	12.38
OP41850-BS	161323	4.53	562388	5.63	356528	7.17	571684	8.43	554217	10.83	482779	12.38
ZZZZZZ	166663	4.52	570498	5.63	355642	7.16	589522	8.43	566306	10.82	493407	12.38

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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSW877-CC868	**Injection Date:**	01/30/15
Lab File ID:	W20120.D	**Injection Time:**	07:53
Instrument ID:	GCMSW	**Method:**	SW846 8270D

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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36583-1	W20135.D	47	34	94	82	81	101
MC36583-2	W20136.D	36	27	81	63	62	95
MC36583-3	W20137.D	49	34	92	81	82	99
MC36583-6	W20138.D	48	34	90	79	79	96
OP41826-BS	W20122.D	38	29	77	66	65	91
OP41826-MB	W20121.D	47	34	78	78	75	95
OP41826-MS	W20123.D	49	34	88	80	79	98
OP41826-MSD	W20130.D	50	35	89	86	78	98

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-73%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	15-125%
S4 = Nitrobenzene-d5	23-120%
S5 = 2-Fluorobiphenyl	31-102%
S6 = Terphenyl-d14	42-124%

Semivolatile Surrogate Recovery Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36583-1	I94071.D	75	72	108
MC36583-2	I94072.D	61	60	104
MC36583-3	I94073.D	80	71	103
MC36583-6	I94074.D	78	72	101
OP41827-BS	I94066.D	67	63	97
OP41827-MB	I94065.D	80	71	97
OP41827-MS	I94067.D	80	74	101
OP41827-MSD	I94068.D	84	76	102

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: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-MB	BK45895.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36583-1, MC36583-2, MC36583-3, MC36583-5, MC36583-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	106%	60-140%
460-00-4	Bromofluorobenzene (S)	101%	60-140%

Blank Spike Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-BS	BK45896.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36583-1, MC36583-2, MC36583-3, MC36583-5, MC36583-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.083	117	45-149
106-93-4	1,2-Dibromoethane	0.071	0.080	113	51-149

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	86%	60-140%
460-00-4	Bromofluorobenzene (S)	82%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-MS	BK45897.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
OP41840-MSD	BK45898.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
MC36600-24	BK45899.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36583-1, MC36583-2, MC36583-3, MC36583-5, MC36583-6

CAS No.	Compound	MC36600-24 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	0.070	99	0.071	0.070	99	0	31-169/30
106-93-4	1,2-Dibromoethane	ND		0.071	0.067	94	0.071	0.067	94	0	34-175/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-24	Limits
460-00-4	Bromofluorobenzene (S)	87%	98%	89%	60-140%
460-00-4	Bromofluorobenzene (S)	98%	111%	85%	60-140%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36583-1	BK45900.D	96	98
MC36583-2	BK45901.D	88	96
MC36583-3	BK45902.D	83	90
MC36583-5	BK45903.D	107	104
MC36583-6	BK45904.D	78	83
OP41840-BS	BK45896.D	86	82
OP41840-MB	BK45895.D	106	101
OP41840-MS	BK45897.D	87	98
OP41840-MSD	BK45898.D	98	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	60-140%

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

GC Surrogate Retention Time Summary

Job Number: MC36583
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1428-CC1427	**Injection Date:**	01/30/15
Lab File ID:	BK45894A.D	**Injection Time:**	00:21
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41840-MB	BK45895.D	01/30/15	00:40	4.45	4.64
OP41840-BS	BK45896.D	01/30/15	00:58	4.45	4.64
OP41840-MS	BK45897.D	01/30/15	01:17	4.45	4.64
OP41840-MSD	BK45898.D	01/30/15	01:35	4.45	4.64
MC36600-24	BK45899.D	01/30/15	01:54	4.45	4.64
MC36583-1	BK45900.D	01/30/15	02:13	4.45	4.64
MC36583-2	BK45901.D	01/30/15	02:32	4.45	4.64
MC36583-3	BK45902.D	01/30/15	02:51	4.45	4.64
MC36583-5	BK45903.D	01/30/15	03:09	4.45	4.64
MC36583-6	BK45904.D	01/30/15	03:28	4.45	4.64

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 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC36601

Sampling Date: 01/23/15



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 103

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 03, 2016

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

RE: SGS Accutest Job # MC36601

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: MC36601

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC36601-1	01/23/15	10:35	DCDH	01/24/15	AQ	Ground Water	P93B-ROX-012315
MC36601-2	01/23/15	10:35	DCDH	01/24/15	AQ	Ground Water	P93B-ROX-012315-DUP
MC36601-3	01/23/15	11:25	DCDH	01/24/15	AQ	Ground Water	P93D-ROX-012315
MC36601-4	01/23/15	12:40	DCDH	01/24/15	AQ	Ground Water	P57-ROX-012315
MC36601-5	01/23/15	13:45	DCDH	01/24/15	AQ	Ground Water	P58-ROX-012315
MC36601-6	01/23/15	00:00	DCDH	01/24/15	AQ	Trip Blank Water	TB-ROX-012315-HCL
MC36601-7	01/23/15	00:00	DCDH	01/24/15	AQ	Trip Blank Water	TB-ROX-012315-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3660

Site: URSMOSTL:Roxana Q 5 GW/ 2 563720 0300 900 South Centra **Report Date** /3/20 6 4:02:02 PM

5 Samp e(s), 2 Tr p B ank(s) were co ected on 0 /23/20 5 and were rece ved at SGS Accutest New Eng and on 0 /24/20 5 proper y preserved, at 0 2 Deg C and ntact These Samp es rece ved a job number of MC3660 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 8260C

Matrix: AQ **Batch ID:** MSN3490

- 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) MC36585-2MS, MC36585-2MSD were used as the QC samp es nd cated
- Bromomethane, V ny ch or de: 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
- MSN3490-BS for V ny Acetate: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

Matrix: AQ **Batch ID:** MSN3492

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3660 -4MS, MC3660 -4MSD 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
- Acetone, 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

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP4 8 6

- 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) MC36600- 3MS, MC36600- 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
- OP4 8 6-BS/MS/MSD for Pyr d ne: Outs de contro m ts
- OP4 8 6-MS/MSD for Benzo c Ac d: Outs de contro m ts due to poss b e matr x nte ference Refer to B ank Sp ke
- RPD(s) for MSD for An ne, Pyr d ne are outs de contro m ts for samp e OP4 8 6-MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- In t a ca brat on ver f cat on MSX 76-ICV 76 for 4-Ch oroan ne, Hexach orocyc opentad ene exceed 30% D fference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP4 8 7

- 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) MC36600- 4MS, MC36600- 4MSD were used as the QC samp es nd cated
- Ca brat on standard MSI3483-ICV3483, f e I934 4 not assoc ate w th th s job
- Samp e(s) MC3660 -2, MC3660 -4, MC3660 -5 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP4 840

- 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) MC36600-24MS, MC36600-24MSD 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(MC3660)

Summary of Hits

Job Number: MC36601
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/23/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36601-1	P93B-ROX-012315					
Benzene		564000	5000	2500	ug/l	SW846 8260C
Phenol		97.9	5.3	0.32	ug/l	SW846 8270D
Di-n-butyl phthalate		0.25 J	5.3	0.18	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.63 J	2.1	0.35	ug/l	SW846 8270D
Fluorene		0.017 J	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.020 J	2.1	0.013	ug/l	SW846 8270D BY SIM
MC36601-2	P93B-ROX-012315-DUP					
Benzene		623000	5000	2500	ug/l	SW846 8260C
Phenol		123	5.3	0.32	ug/l	SW846 8270D
Di-n-butyl phthalate		0.31 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.019 J	0.11	0.0080	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.023 J	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.041 J	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.024 JB	0.053	0.011	ug/l	SW846 8270D BY SIM
MC36601-3	P93D-ROX-012315					
Benzene		62600	130	62	ug/l	SW846 8260C
Phenol		44.0	5.3	0.32	ug/l	SW846 8270D
2-Methylnaphthalene		0.019 J	2.1	0.012	ug/l	SW846 8270D BY SIM
MC36601-4	P57-ROX-012315					
Benzene		107000	250	120	ug/l	SW846 8260C
Ethylbenzene		773	500	130	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		652 J	2500	150	ug/l	SW846 8260C
m,p-Xylene		342 J	500	190	ug/l	SW846 8260C
Xylene (total)		342 J	500	150	ug/l	SW846 8260C
3&4-Methylphenol		4.4 J	11	0.49	ug/l	SW846 8270D
Phenol		159	5.3	0.32	ug/l	SW846 8270D
Dibenzofuran		1.3 J	2.1	0.27	ug/l	SW846 8270D
Di-n-butyl phthalate		0.39 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.59	0.11	0.0079	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.14	0.11	0.0088	ug/l	SW846 8270D BY SIM
Anthracene		0.073 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Fluoranthene		0.020 JB	0.11	0.0078	ug/l	SW846 8270D BY SIM
Fluorene		0.98	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		38.5	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		50.7	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.62	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.027 JB	0.11	0.0089	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC36601
Account: Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Collected: 01/23/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC36601-5	**P58-ROX-012315**					
Benzene		304000	500	250	ug/l	SW846 8260C
Ethylbenzene		1130	1000	250	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		714 J	5000	300	ug/l	SW846 8260C
m,p-Xylene		686 J	1000	380	ug/l	SW846 8260C
Xylene (total)		686 J	1000	300	ug/l	SW846 8260C
3&4-Methylphenol		2.5 J	11	0.50	ug/l	SW846 8270D
Phenol		162	5.3	0.32	ug/l	SW846 8270D
Dibenzofuran		1.9 J	2.1	0.28	ug/l	SW846 8270D
Di-n-butyl phthalate		0.38 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.60	0.11	0.0080	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.18	0.11	0.0089	ug/l	SW846 8270D BY SIM
Anthracene		0.053 J	0.11	0.010	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.026 J	0.053	0.025	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.020 J	0.11	0.016	ug/l	SW846 8270D BY SIM
Chrysene		0.032 J	0.11	0.014	ug/l	SW846 8270D BY SIM
Fluoranthene		0.028 JB	0.11	0.0079	ug/l	SW846 8270D BY SIM
Fluorene		1.1	0.11	0.016	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		42.8	2.1	0.013	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		56.5	2.1	0.012	ug/l	SW846 8270D BY SIM
Phenanthrene		0.64	0.053	0.011	ug/l	SW846 8270D BY SIM
Pyrene		0.097 JB	0.11	0.0090	ug/l	SW846 8270D BY SIM

MC36601-6 **TB-ROX-012315-HCL**

No hits reported in this sample.

MC36601-7 **TB-ROX-012315-ST**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94619.D	1000	02/02/15	TT	n/a	n/a	MSN3490
Run #2	N94709.D	10000	02/05/15	JB	n/a	n/a	MSN3492

	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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	564000 [a]	5000	2500	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [b]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	470	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:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	ND	1000	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	300	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [b]	ND	1000	450	ug/l	
	m,p-Xylene	ND	1000	380	ug/l	
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	ND	1000	300	ug/l	

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Report of Analysis

Client Sample ID:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	102%	67-134%
2037-26-5	Toluene-D8	98%	101%	79-121%
460-00-4	4-Bromofluorobenzene	98%	102%	71-133%

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

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

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-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05558.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	97.9	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.25	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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Report of Analysis

Client Sample ID:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.63	2.1	0.35	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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%		10-73%
4165-62-2	Phenol-d5	26%		10-58%
118-79-6	2,4,6-Tribromophenol	78%		15-125%
4165-60-0	Nitrobenzene-d5	54%		23-120%
321-60-8	2-Fluorobiphenyl	67%		31-102%
1718-51-0	Terphenyl-d14	79%		42-124%

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:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94083.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
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	0.0079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0088	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	0.017	0.11	0.016	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	0.020	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		26-121%
321-60-8	2-Fluorobiphenyl	59%		28-107%
1718-51-0	Terphenyl-d14	83%		29-129%

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Client Sample ID:	P93B-ROX-012315		
Lab Sample ID:	MC36601-1	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45906.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 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	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	104%		60-140%
460-00-4	Bromofluorobenzene (S)	113%		60-140%

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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-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94620.D	1000	02/02/15	TT	n/a	n/a	MSN3490
Run #2	N94710.D	10000	02/05/15	JB	n/a	n/a	MSN3492

	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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	623000 [a]	5000	2500	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [b]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	470	ug/l	

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Report of Analysis

Client Sample ID:	P93B-ROX-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	ND	1000	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	300	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [b]	ND	1000	450	ug/l	
	m,p-Xylene	ND	1000	380	ug/l	
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	ND	1000	300	ug/l	

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Report of Analysis

Client Sample ID:	P93B-ROX-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	99%	67-134%
2037-26-5	Toluene-D8	88%	99%	79-121%
460-00-4	4-Bromofluorobenzene	99%	104%	71-133%

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

(a) Result is from Run# 2
(b) 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:	P93B-ROX-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05559.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	123	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.31	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	51%		10-73%
4165-62-2	Phenol-d5	33%		10-58%
118-79-6	2,4,6-Tribromophenol	103%		15-125%
4165-60-0	Nitrobenzene-d5	76%		23-120%
321-60-8	2-Fluorobiphenyl	91%		31-102%
1718-51-0	Terphenyl-d14	104%		42-124%

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:	P93B-ROX-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94084.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
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	0.019	0.11	0.0080	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	0.023	2.1	0.013	ug/l	J
91-57-6	2-Methylnaphthalene	0.041	2.1	0.012	ug/l	J
85-01-8	Phenanthrene	0.024	0.053	0.011	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		26-121%
321-60-8	2-Fluorobiphenyl	78%		28-107%
1718-51-0	Terphenyl-d14	109%		29-129%

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-012315-DUP		
Lab Sample ID:	MC36601-2	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45907.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	101%		60-140%
460-00-4	Bromofluorobenzene (S)	108%		60-140%

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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:	P93D-ROX-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94691.D	250	02/05/15	JB	n/a	n/a	MSN3492
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]	ND	2500	630	ug/l	
107-02-8	Acrolein	ND	6300	1500	ug/l	
107-13-1	Acrylonitrile	ND	1300	530	ug/l	
71-43-2	Benzene	62600	130	62	ug/l	
108-86-1	Bromobenzene	ND	1300	87	ug/l	
74-97-5	Bromochloromethane	ND	1300	100	ug/l	
75-27-4	Bromodichloromethane	ND	250	120	ug/l	
75-25-2	Bromoform	ND	250	76	ug/l	
74-83-9	Bromomethane	ND	500	190	ug/l	
78-93-3	2-Butanone (MEK)	ND	1300	630	ug/l	
104-51-8	n-Butylbenzene	ND	1300	270	ug/l	
135-98-8	sec-Butylbenzene	ND	1300	100	ug/l	
98-06-6	tert-Butylbenzene	ND	1300	97	ug/l	
75-15-0	Carbon disulfide	ND	1300	110	ug/l	
56-23-5	Carbon tetrachloride	ND	250	58	ug/l	
108-90-7	Chlorobenzene	ND	250	63	ug/l	
75-00-3	Chloroethane	ND	500	93	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1300	830	ug/l	
67-66-3	Chloroform	ND	250	77	ug/l	
74-87-3	Chloromethane	ND	500	150	ug/l	
95-49-8	o-Chlorotoluene	ND	1300	96	ug/l	
106-43-4	p-Chlorotoluene	ND	1300	110	ug/l	
124-48-1	Dibromochloromethane	ND	250	65	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	60	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	39	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	78	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	500	180	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	49	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	83	ug/l	
75-35-4	1,1-Dichloroethene	ND	250	74	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	250	110	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	120	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	500	110	ug/l	
142-28-9	1,3-Dichloropropane	ND	1300	220	ug/l	
594-20-7	2,2-Dichloropropane	ND	1300	310	ug/l	
563-58-6	1,1-Dichloropropene	ND	1300	120	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	130	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	130	96	ug/l	
123-91-1	1,4-Dioxane	ND	6300	2700	ug/l	
97-63-2	Ethyl methacrylate	ND	1300	130	ug/l	
100-41-4	Ethylbenzene	ND	250	63	ug/l	
87-68-3	Hexachlorobutadiene	ND	1300	420	ug/l	
591-78-6	2-Hexanone	ND	1300	400	ug/l	
98-82-8	Isopropylbenzene	ND	1300	87	ug/l	
99-87-6	p-Isopropyltoluene	ND	1300	93	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	54	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	250	ug/l	
74-95-3	Methylene bromide	ND	1300	130	ug/l	
75-09-2	Methylene chloride	ND	500	98	ug/l	
91-20-3	Naphthalene	ND	1300	170	ug/l	
103-65-1	n-Propylbenzene	ND	1300	120	ug/l	
100-42-5	Styrene	ND	1300	73	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	110	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	130	74	ug/l	
127-18-4	Tetrachloroethene	ND	250	72	ug/l	
108-88-3	Toluene	ND	250	54	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1300	170	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	74	ug/l	
79-01-6	Trichloroethene	ND	250	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	250	140	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1300	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1300	75	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1300	45	ug/l	
108-05-4	Vinyl Acetate	ND	1300	180	ug/l	
75-01-4	Vinyl chloride	ND	250	110	ug/l	
	m,p-Xylene	ND	250	96	ug/l	
95-47-6	o-Xylene	ND	250	76	ug/l	
1330-20-7	Xylene (total)	ND	250	76	ug/l	

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

Report of Analysis

Client Sample ID:	P93D-ROX-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		67-134%
2037-26-5	Toluene-D8	102%		79-121%
460-00-4	4-Bromofluorobenzene	109%		71-133%

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

(a) 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:	P93D-ROX-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05560.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	44.0	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	P93D-ROX-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	49%		10-73%
4165-62-2	Phenol-d5	32%		10-58%
118-79-6	2,4,6-Tribromophenol	97%		15-125%
4165-60-0	Nitrobenzene-d5	75%		23-120%
321-60-8	2-Fluorobiphenyl	85%		31-102%
1718-51-0	Terphenyl-d14	100%		42-124%

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-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94085.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
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	0.0080	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0089	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0079	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	0.019	2.1	0.012	ug/l	J
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0090	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		26-121%
321-60-8	2-Fluorobiphenyl	73%		28-107%
1718-51-0	Terphenyl-d14	106%		29-129%

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

J = Indicates 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-012315		
Lab Sample ID:	MC36601-3	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45908.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		60-140%
460-00-4	Bromofluorobenzene (S)	116%		60-140%

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

J = Indicates 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-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492
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]	ND	5000	1300	ug/l	
107-02-8	Acrolein	ND	13000	3000	ug/l	
107-13-1	Acrylonitrile	ND	2500	1100	ug/l	
71-43-2	Benzene	107000	250	120	ug/l	
108-86-1	Bromobenzene	ND	2500	170	ug/l	
74-97-5	Bromochloromethane	ND	2500	210	ug/l	
75-27-4	Bromodichloromethane	ND	500	240	ug/l	
75-25-2	Bromoform	ND	500	150	ug/l	
74-83-9	Bromomethane	ND	1000	390	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	1300	ug/l	
104-51-8	n-Butylbenzene	ND	2500	540	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	210	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	190	ug/l	
75-15-0	Carbon disulfide	ND	2500	230	ug/l	
56-23-5	Carbon tetrachloride	ND	500	120	ug/l	
108-90-7	Chlorobenzene	ND	500	130	ug/l	
75-00-3	Chloroethane	ND	1000	190	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	1700	ug/l	
67-66-3	Chloroform	ND	500	150	ug/l	
74-87-3	Chloromethane	ND	1000	300	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	190	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	220	ug/l	
124-48-1	Dibromochloromethane	ND	500	130	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	120	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	79	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	160	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1000	360	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	99	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	170	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	150	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	500	220	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	240	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	220	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	450	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	630	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	240	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	210	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	190	ug/l	
123-91-1	1,4-Dioxane	ND	13000	5400	ug/l	
97-63-2	Ethyl methacrylate	ND	2500	250	ug/l	
100-41-4	Ethylbenzene	773	500	130	ug/l	
87-68-3	Hexachlorobutadiene	ND	2500	830	ug/l	
591-78-6	2-Hexanone	ND	2500	800	ug/l	
98-82-8	Isopropylbenzene	ND	2500	170	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	190	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	110	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	490	ug/l	
74-95-3	Methylene bromide	ND	2500	260	ug/l	
75-09-2	Methylene chloride	ND	1000	200	ug/l	
91-20-3	Naphthalene	ND	2500	340	ug/l	
103-65-1	n-Propylbenzene	ND	2500	250	ug/l	
100-42-5	Styrene	ND	2500	150	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	220	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	150	ug/l	
127-18-4	Tetrachloroethene	ND	500	140	ug/l	
108-88-3	Toluene	ND	500	110	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	340	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	93	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	210	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	150	ug/l	
79-01-6	Trichloroethene	ND	500	200	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	270	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2500	410	ug/l	
95-63-6	1,2,4-Trimethylbenzene	652	2500	150	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2500	90	ug/l	
108-05-4	Vinyl Acetate	ND	2500	360	ug/l	
75-01-4	Vinyl chloride	ND	500	220	ug/l	
	m,p-Xylene	342	500	190	ug/l	J
95-47-6	o-Xylene	ND	500	150	ug/l	
1330-20-7	Xylene (total)	342	500	150	ug/l	J

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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-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		67-134%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenzene	103%		71-133%

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

(a) 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:	P57-ROX-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05561.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
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	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	4.4	11	0.49	ug/l	J
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.6	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	159	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.26	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	1.3	2.1	0.27	ug/l	J
84-74-2	Di-n-butyl phthalate	0.39	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.26	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	51%		10-73%
4165-62-2	Phenol-d5	32%		10-58%
118-79-6	2,4,6-Tribromophenol	104%		15-125%
4165-60-0	Nitrobenzene-d5	75%		23-120%
321-60-8	2-Fluorobiphenyl	85%		31-102%
1718-51-0	Terphenyl-d14	100%		42-124%

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:	P57-ROX-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94086.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
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	0.59	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	0.14	0.11	0.0088	ug/l	
120-12-7	Anthracene	0.073	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.020	0.11	0.0078	ug/l	JB
86-73-7	Fluorene	0.98	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
90-12-0	1-Methylnaphthalene	38.5	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	50.7	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.62	0.053	0.011	ug/l	
129-00-0	Pyrene	0.027	0.11	0.0089	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		26-121%
321-60-8	2-Fluorobiphenyl	69%		28-107%
1718-51-0	Terphenyl-d14	106%		29-129%

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

J = Indicates 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-012315		
Lab Sample ID:	MC36601-4	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45909.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
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	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	86%		60-140%
460-00-4	Bromofluorobenzene (S)	86%		60-140%

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

J = Indicates 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-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94623.D	1000	02/02/15	TT	n/a	n/a	MSN3490
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	10000	2500	ug/l	
107-02-8	Acrolein	ND	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND	5000	2100	ug/l	
71-43-2	Benzene	304000	500	250	ug/l	
108-86-1	Bromobenzene	ND	5000	350	ug/l	
74-97-5	Bromochloromethane	ND	5000	420	ug/l	
75-27-4	Bromodichloromethane	ND	1000	470	ug/l	
75-25-2	Bromoform	ND	1000	300	ug/l	
74-83-9	Bromomethane [a]	ND	2000	770	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	390	ug/l	
75-15-0	Carbon disulfide	ND	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	230	ug/l	
108-90-7	Chlorobenzene	ND	1000	250	ug/l	
75-00-3	Chloroethane	ND	2000	370	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	3300	ug/l	
67-66-3	Chloroform	ND	1000	310	ug/l	
74-87-3	Chloromethane	ND	2000	590	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND	1000	260	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	160	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	310	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	330	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	290	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	440	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	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:	P58-ROX-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2000	450	ug/l	
142-28-9	1,3-Dichloropropane	ND	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND	5000	1300	ug/l	
563-58-6	1,1-Dichloropropene	ND	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	380	ug/l	
123-91-1	1,4-Dioxane	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND	5000	500	ug/l	
100-41-4	Ethylbenzene	1130	1000	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	1700	ug/l	
591-78-6	2-Hexanone	ND	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	220	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	990	ug/l	
74-95-3	Methylene bromide	ND	5000	520	ug/l	
75-09-2	Methylene chloride	ND	2000	390	ug/l	
91-20-3	Naphthalene	ND	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND	5000	490	ug/l	
100-42-5	Styrene	ND	5000	290	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	300	ug/l	
127-18-4	Tetrachloroethene	ND	1000	290	ug/l	
108-88-3	Toluene	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5000	190	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	420	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	300	ug/l	
79-01-6	Trichloroethene	ND	1000	400	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	714	5000	300	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5000	180	ug/l	
108-05-4	Vinyl Acetate	ND	5000	710	ug/l	
75-01-4	Vinyl chloride [a]	ND	1000	450	ug/l	
	m,p-Xylene	686	1000	380	ug/l	J
95-47-6	o-Xylene	ND	1000	300	ug/l	
1330-20-7	Xylene (total)	686	1000	300	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates 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-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-134%
2037-26-5	Toluene-D8	83%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

(a) 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:	P58-ROX-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X05562.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
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	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	2.5	11	0.50	ug/l	J
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.7	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	162	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.27	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	1.9	2.1	0.28	ug/l	J
84-74-2	Di-n-butyl phthalate	0.38	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	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:	P58-ROX-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.27	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.27	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	46%		10-73%
4165-62-2	Phenol-d5	31%		10-58%
118-79-6	2,4,6-Tribromophenol	99%		15-125%
4165-60-0	Nitrobenzene-d5	71%		23-120%
321-60-8	2-Fluorobiphenyl	83%		31-102%
1718-51-0	Terphenyl-d14	96%		42-124%

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:	P58-ROX-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I94087.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
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	0.60	0.11	0.0080	ug/l	
208-96-8	Acenaphthylene	0.18	0.11	0.0089	ug/l	
120-12-7	Anthracene	0.053	0.11	0.010	ug/l	J
56-55-3	Benzo(a)anthracene	0.026	0.053	0.025	ug/l	J
50-32-8	Benzo(a)pyrene	0.020	0.11	0.016	ug/l	J
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	0.032	0.11	0.014	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	0.028	0.11	0.0079	ug/l	JB
86-73-7	Fluorene	1.1	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.022	ug/l	
90-12-0	1-Methylnaphthalene	42.8	2.1	0.013	ug/l	
91-57-6	2-Methylnaphthalene	56.5	2.1	0.012	ug/l	
85-01-8	Phenanthrene	0.64	0.053	0.011	ug/l	
129-00-0	Pyrene	0.097	0.11	0.0090	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		26-121%
321-60-8	2-Fluorobiphenyl	70%		28-107%
1718-51-0	Terphenyl-d14	102%		29-129%

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

J = Indicates 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-012315		
Lab Sample ID:	MC36601-5	**Date Sampled:**	01/23/15
Matrix:	AQ - Ground Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45910.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 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	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		60-140%
460-00-4	Bromofluorobenzene (S)	90%		60-140%

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

J = Indicates 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-012315-HCL		
Lab Sample ID:	MC36601-6	**Date Sampled:**	01/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N94605.D	1	02/02/15	TT	n/a	n/a	MSN3490
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	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	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:	TB-ROX-012315-HCL		
Lab Sample ID:	MC36601-6	**Date Sampled:**	01/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	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-012315-HCL		
Lab Sample ID:	MC36601-6	**Date Sampled:**	01/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-134%
2037-26-5	Toluene-D8	90%		79-121%
460-00-4	4-Bromofluorobenzene	97%		71-133%

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

(a) 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-012315-ST		
Lab Sample ID:	MC36601-7	**Date Sampled:**	01/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/24/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK45911.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 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	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	106%		60-140%
460-00-4	Bromofluorobenzene (S)	105%		60-140%

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

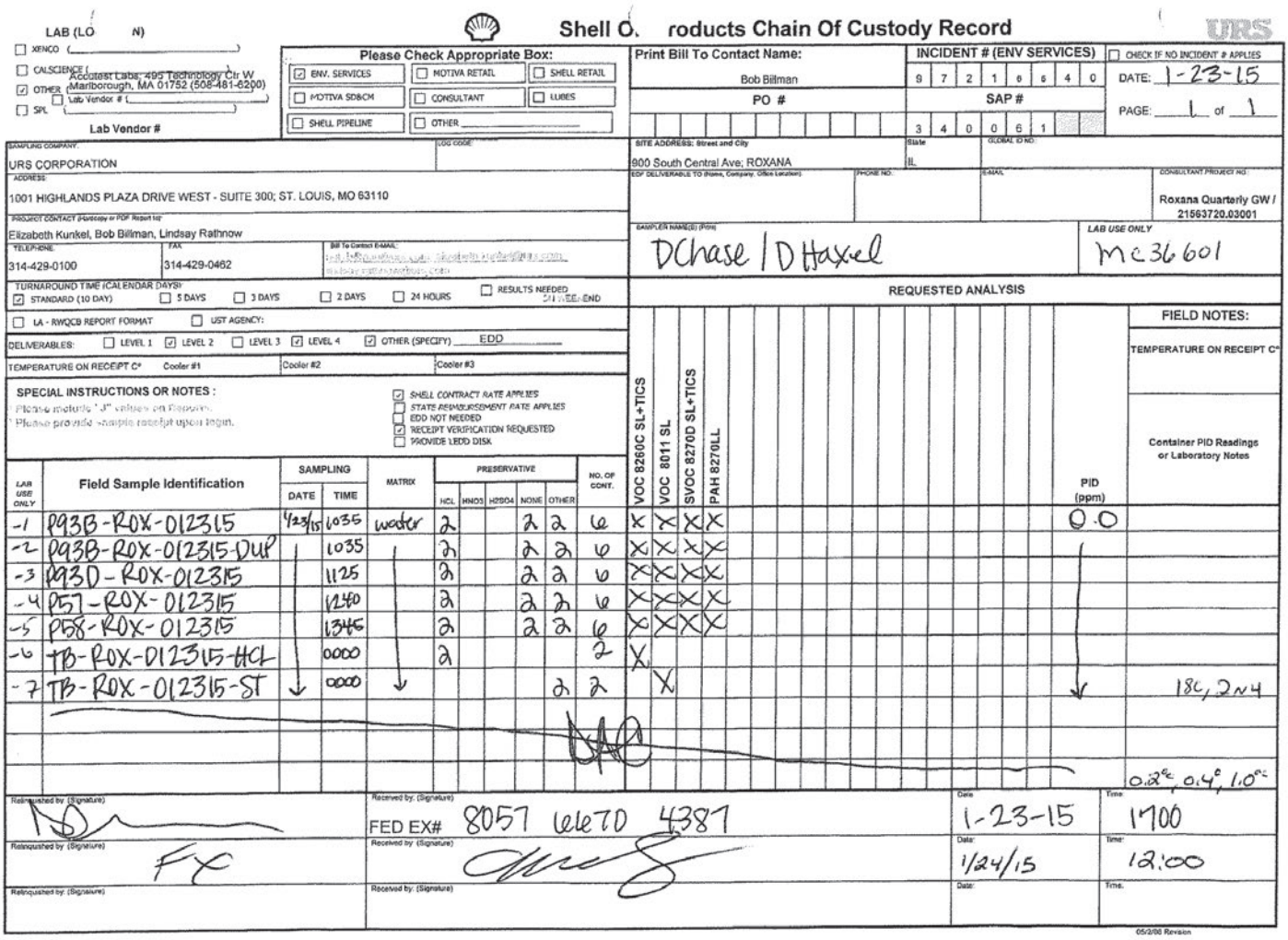
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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



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

Shell O. roducts 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): 9 7 2 1 0 5 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1-23-15
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): Elizabeth Kunkel, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL:

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 / 21563720.03001
SAMPLER NAME(S) (Print): DChase / DHaxel
LAB USE ONLY: MC36601

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED BY (MM/DD/YY)
☐ 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 Report.
Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE EDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P93B-ROX-012315	1/23/15	1035	water	2			2	2	6	X	X	X	X	0.0	
-2	P93B-ROX-012315-DUP		1035		2			2	2	6	X	X	X	X		
-3	P93D-ROX-012315		1125		2			2	2	6	X	X	X	X		
-4	P57-ROX-012315		1240		2			2	2	6	X	X	X	X		
-5	P58-ROX-012315		1345		2			2	2	6	X	X	X	X		
-6	TB-ROX-012315-HCL		0000		2					2	X					
-7	TB-ROX-012315-ST		0000						2	2		X				18C, 2N4
																0.2°C, 0.4°, 1.0°C

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Received by (Signature) FED EX# 8057 6676 4387	Date: 1-23-15	Time: 1700
Relinquished by (Signature) FC	Received by (Signature)	Date: 1/24/15	Time: 12:00
Relinquished by (Signature)	Received by (Signature)	Date:	Time:

05/2/06 Revision

5.1 5

MC36601: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC36601 **Client:** URS **Project:** ROXANA

Date / Time Received: 1/24/2015 12 00 00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1 (0 2/0 2) #2 (0 4/0 4) #3 (1/1)

Cooler Security	Y	or	N		Y	or	N
1 Custody Seals Present	☑		☐	3 COC Present	☑		☐
2 Custody Seals ntact	☑		☐	4 Smpl Dates/ ime OK	☑		☐

Cooler Temperature	Y	or	N
1 emp criteria achieved	☑		☐
2 hermometer D	G1		
3 Cooler media	ce (Bag)		
4 No Coolers	3		

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

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 H	☑		☐
2 All containers accounted or	☑		☐
3 Condition o sample	ntact		

Sample Integrity - Instructions	Y	or	N	N/A
1 Analysis requested is clear	☑		☐	
2 Bottles received or unspeci ied tests	☐		☑	
3 Su icient volume recvd or 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 01752
www/accutest.com

MC36601: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36601

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36601-1 Collected: 23-JAN-15 10:35 By: DCDH Received: 24-JAN-15 By: BA P93B-ROX-012315						
MC36601-1	SW846 8011	30-JAN-15 04:06	NK	28-JAN-15	MT	V8011SL
MC36601-1	SW846 8270D BY SIM	30-JAN-15 10:21	MR	26-JAN-15	AZ	B8270SIMSL
MC36601-1	SW846 8270D	30-JAN-15 13:58	MR	26-JAN-15	AZ	AB8270SL+
MC36601-1	SW846 8260C	02-FEB-15 18:17	TT			V8260SL+
MC36601-1	SW846 8260C	05-FEB-15 20:01	JB			V8260SL+
MC36601-2 Collected: 23-JAN-15 10:35 By: DCDH Received: 24-JAN-15 By: BA P93B-ROX-012315-DUP						
MC36601-2	SW846 8011	30-JAN-15 04:25	NK	28-JAN-15	MT	V8011SL
MC36601-2	SW846 8270D BY SIM	30-JAN-15 10:47	MR	26-JAN-15	AZ	B8270SIMSL
MC36601-2	SW846 8270D	30-JAN-15 14:18	MR	26-JAN-15	AZ	AB8270SL+
MC36601-2	SW846 8260C	02-FEB-15 18:45	TT			V8260SL+
MC36601-2	SW846 8260C	05-FEB-15 20:29	JB			V8260SL+
MC36601-3 Collected: 23-JAN-15 11:25 By: DCDH Received: 24-JAN-15 By: BA P93D-ROX-012315						
MC36601-3	SW846 8011	30-JAN-15 04:43	NK	28-JAN-15	MT	V8011SL
MC36601-3	SW846 8270D BY SIM	30-JAN-15 11:13	MR	26-JAN-15	AZ	B8270SIMSL
MC36601-3	SW846 8270D	30-JAN-15 14:39	MR	26-JAN-15	AZ	AB8270SL+
MC36601-3	SW846 8260C	05-FEB-15 11:32	JB			V8260SL+
MC36601-4 Collected: 23-JAN-15 12:40 By: DCDH Received: 24-JAN-15 By: BA P57-ROX-012315						
MC36601-4	SW846 8011	30-JAN-15 05:01	NK	28-JAN-15	MT	V8011SL
MC36601-4	SW846 8270D BY SIM	30-JAN-15 11:36	MR	26-JAN-15	AZ	B8270SIMSL
MC36601-4	SW846 8270D	30-JAN-15 15:00	MR	26-JAN-15	AZ	AB8270SL+
MC36601-4	SW846 8260C	05-FEB-15 13:25	JB			V8260SL+
MC36601-5 Collected: 23-JAN-15 13:45 By: DCDH Received: 24-JAN-15 By: BA P58-ROX-012315						
MC36601-5	SW846 8011	30-JAN-15 05:19	NK	28-JAN-15	MT	V8011SL
MC36601-5	SW846 8270D BY SIM	30-JAN-15 12:00	MR	26-JAN-15	AZ	B8270SIMSL
MC36601-5	SW846 8270D	30-JAN-15 15:20	MR	26-JAN-15	AZ	AB8270SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC36601

URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC36601-5	SW846 8260C	02-FEB-15 20:09	TT			V8260SL+
MC36601-6 Collected: 23-JAN-15 00:00 By: DCDH Received: 24-JAN-15 By: BA TB-ROX-012315-HCL						
MC36601-6	SW846 8260C	02-FEB-15 11:40	TT			V8260SL+
MC36601-7 Collected: 23-JAN-15 00:00 By: DCDH Received: 24-JAN-15 By: BA TB-ROX-012315-ST						
MC36601-7	SW846 8011	30-JAN-15 05:38	NK	28-JAN-15	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36601-1.2	Walk In Ref #22	Alireza Zeighami	01/26/15 13:17	Retrieve from Storage
MC36601-1.2	Alireza Zeighami		01/30/15 07:02	Depleted
MC36601-1.3	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-1.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36601-1.5	VOC Ref #2	Jaclyn Bergeron	02/05/15 09:41	Retrieve from Storage
MC36601-1.5	Jaclyn Bergeron	GCMSN	02/05/15 09:41	Load on Instrument
MC36601-1.5	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36601-1.5	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:54	Return to Storage
MC36601-1.5	Scott Parsick		04/15/15 12:23	Disposed
MC36601-1.6	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-1.6	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-1.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-1.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36601-1.6	Scott Parsick		04/15/15 12:23	Disposed
MC36601-2.2	Walk In Ref #22	Alireza Zeighami	01/26/15 13:17	Retrieve from Storage
MC36601-2.2	Alireza Zeighami		01/30/15 07:02	Depleted
MC36601-2.4	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-2.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36601-2.5	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-2.5	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-2.5	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-2.5	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36601-2.5	Scott Parsick		04/15/15 12:23	Disposed
MC36601-2.6	VOC Ref #2	Jaclyn Bergeron	02/05/15 09:41	Retrieve from Storage
MC36601-2.6	Jaclyn Bergeron	GCMSN	02/05/15 09:41	Load on Instrument
MC36601-2.6	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36601-2.6	Jaclyn Bergeron	VOC Ref #2	02/06/15 08:54	Return to Storage
MC36601-2.6	Scott Parsick		04/15/15 12:23	Disposed
MC36601-3.2	Walk In Ref #22	Alireza Zeighami	01/26/15 13:17	Retrieve from Storage
MC36601-3.2	Alireza Zeighami		01/30/15 07:02	Depleted
MC36601-3.3	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-3.3	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36601-3.5	VOC Ref #3	Jaclyn Bergeron	02/05/15 09:36	Retrieve from Storage
MC36601-3.5	Jaclyn Bergeron	GCMSN	02/05/15 09:36	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36601-3.5	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36601-3.5	Jaclyn Bergeron	VOC Ref #3	02/06/15 08:54	Return to Storage
MC36601-3.5	Scott Parsick		04/15/15 12:23	Disposed
MC36601-3.6	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-3.6	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-3.6	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-3.6	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36601-3.6	Scott Parsick		04/15/15 12:23	Disposed
MC36601-4.1	Walk In Ref #22	Alireza Zeighami	01/26/15 13:17	Retrieve from Storage
MC36601-4.1	Alireza Zeighami		01/30/15 07:02	Depleted
MC36601-4.4	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-4.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36601-4.5	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-4.5	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-4.5	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-4.5	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36601-4.5	Scott Parsick		04/15/15 12:23	Disposed
MC36601-4.6	VOC Ref #3	Jaclyn Bergeron	02/05/15 09:36	Retrieve from Storage
MC36601-4.6	Jaclyn Bergeron	GCMSN	02/05/15 09:36	Load on Instrument
MC36601-4.6	GCMSN	Jaclyn Bergeron	02/06/15 08:53	Unload from Instrument
MC36601-4.6	Jaclyn Bergeron	VOC Ref #3	02/06/15 08:54	Return to Storage
MC36601-4.6	Scott Parsick		04/15/15 12:23	Disposed
MC36601-5.1	Walk In Ref #22	Alireza Zeighami	01/26/15 13:17	Retrieve from Storage
MC36601-5.1	Alireza Zeighami		01/30/15 07:02	Depleted
MC36601-5.4	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-5.4	Marc Tahtamoni		02/12/15 20:37	Depleted
MC36601-5.5	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-5.5	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-5.5	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-5.5	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage
MC36601-5.5	Scott Parsick		04/15/15 12:23	Disposed
MC36601-6.1	VOC Ref #2	Tomasz Torski	02/02/15 10:39	Retrieve from Storage
MC36601-6.1	Tomasz Torski	GCMSN	02/02/15 10:40	Load on Instrument
MC36601-6.1	GCMSN	Jaclyn Bergeron	02/03/15 09:13	Unload from Instrument
MC36601-6.1	Jaclyn Bergeron	VOC Ref #2	02/03/15 09:13	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL
Received: 01/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC36601-6.1	Scott Parsick		04/15/15 12:23	Disposed
MC36601-7.1	VOC Ref #2	Marc Tahtamoni	01/28/15 14:41	Retrieve from Storage
MC36601-7.1	Marc Tahtamoni		02/12/15 20:37	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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB	N94604.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	94%	79-121%
460-00-4	4-Bromofluorobenzene	92%	71-133%

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

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-MB	N94689.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.18	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-MB1	N94689.D	1	02/05/15	TT	n/a	n/a	MSN3490

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

MC36585-2MS, MC36585-2MSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	67-134%
2037-26-5	Toluene-D8	100%	79-121%
460-00-4	4-Bromofluorobenzene	100%	71-133%

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

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	68.1	136	10-147
107-02-8	Acrolein	250	237	95	10-170
107-13-1	Acrylonitrile	50	48.0	96	51-154
71-43-2	Benzene	50	52.2	104	74-127
108-86-1	Bromobenzene	50	54.5	109	77-124
74-97-5	Bromochloromethane	50	60.0	120	76-128
75-27-4	Bromodichloromethane	50	54.2	108	68-156
75-25-2	Bromoform	50	65.5	131	70-134
74-83-9	Bromomethane	50	45.3	91	14-180
78-93-3	2-Butanone (MEK)	50	72.4	145	23-148
104-51-8	n-Butylbenzene	50	59.3	119	75-140
135-98-8	sec-Butylbenzene	50	50.1	100	74-139
98-06-6	tert-Butylbenzene	50	47.8	96	71-141
75-15-0	Carbon disulfide	50	49.4	99	45-156
56-23-5	Carbon tetrachloride	50	57.3	115	67-152
108-90-7	Chlorobenzene	50	54.4	109	76-121
75-00-3	Chloroethane	50	49.3	99	54-177
110-75-8	2-Chloroethyl vinyl ether	50	50.4	101	36-178
67-66-3	Chloroform	50	54.4	109	68-139
74-87-3	Chloromethane	50	35.8	72	33-171
95-49-8	o-Chlorotoluene	50	48.3	97	76-131
106-43-4	p-Chlorotoluene	50	49.3	99	76-130
124-48-1	Dibromochloromethane	50	57.2	114	82-130
95-50-1	1,2-Dichlorobenzene	50	55.9	112	81-127
541-73-1	1,3-Dichlorobenzene	50	53.4	107	80-124
106-46-7	1,4-Dichlorobenzene	50	55.6	111	78-124
75-71-8	Dichlorodifluoromethane	50	46.6	93	10-185
75-34-3	1,1-Dichloroethane	50	49.1	98	69-140
107-06-2	1,2-Dichloroethane	50	47.6	95	64-149
75-35-4	1,1-Dichloroethene	50	48.5	97	58-142
156-59-2	cis-1,2-Dichloroethene	50	54.0	108	68-129
156-60-5	trans-1,2-Dichloroethene	50	54.2	108	61-133
78-87-5	1,2-Dichloropropane	50	50.4	101	74-135
142-28-9	1,3-Dichloropropane	50	55.7	111	76-121
594-20-7	2,2-Dichloropropane	50	57.2	114	62-157
563-58-6	1,1-Dichloropropene	50	48.6	97	72-138

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	56.5	113	75-138
10061-02-6	trans-1,3-Dichloropropene	50	48.8	98	70-150
123-91-1	1,4-Dioxane	250	273	109	52-165
97-63-2	Ethyl methacrylate	50	57.2	114	62-138
100-41-4	Ethylbenzene	50	55.4	111	75-129
87-68-3	Hexachlorobutadiene	50	66.0	132	59-150
591-78-6	2-Hexanone	50	64.5	129	28-137
98-82-8	Isopropylbenzene	50	49.0	98	76-138
99-87-6	p-Isopropyltoluene	50	55.5	111	77-137
1634-04-4	Methyl Tert Butyl Ether	50	64.7	129	62-134
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.0	100	48-153
74-95-3	Methylene bromide	50	54.9	110	74-134
75-09-2	Methylene chloride	50	49.4	99	62-134
91-20-3	Naphthalene	50	73.2	146	32-196
103-65-1	n-Propylbenzene	50	48.9	98	74-138
100-42-5	Styrene	50	65.2	130	75-131
630-20-6	1,1,1,2-Tetrachloroethane	50	62.6	125	78-129
79-34-5	1,1,2,2-Tetrachloroethane	50	61.9	124	64-132
127-18-4	Tetrachloroethene	50	58.0	116	68-133
108-88-3	Toluene	50	48.9	98	75-134
87-61-6	1,2,3-Trichlorobenzene	50	66.5	133	51-169
120-82-1	1,2,4-Trichlorobenzene	50	59.7	119	62-146
71-55-6	1,1,1-Trichloroethane	50	52.4	105	66-152
79-00-5	1,1,2-Trichloroethane	50	53.1	106	70-138
79-01-6	Trichloroethene	50	54.5	109	70-131
75-69-4	Trichlorofluoromethane	50	51.7	103	43-168
96-18-4	1,2,3-Trichloropropane	50	62.8	126	61-134
95-63-6	1,2,4-Trimethylbenzene	50	51.9	104	76-133
108-67-8	1,3,5-Trimethylbenzene	50	53.4	107	72-131
108-05-4	Vinyl Acetate	50	109	218* [a]	10-200
75-01-4	Vinyl chloride	50	37.2	74	32-182
	m,p-Xylene	100	118	118	74-129
95-47-6	o-Xylene	50	59.5	119	77-127
1330-20-7	Xylene (total)	150	178	119	75-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3490-BS	N94601.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	67-134%
2037-26-5	Toluene-D8	91%	79-121%
460-00-4	4-Bromofluorobenzene	89%	71-133%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	28.3	57	28.4	57	23	10-147/25
107-02-8	Acrolein	250	272	109	277	111	2	10-170/25
107-13-1	Acrylonitrile	50	54.6	109	51.4	103	6	51-154/25
71-43-2	Benzene	50	48.2	96	47.4	95	2	74-127/25
108-86-1	Bromobenzene	50	46.5	93	45.0	90	3	77-124/25
74-97-5	Bromochloromethane	50	49.8	100	51.3	103	3	76-128/25
75-27-4	Bromodichloromethane	50	51.1	102	50.9	102	0	68-156/25
75-25-2	Bromoform	50	52.3	105	51.4	103	2	70-134/25
74-83-9	Bromomethane	50	46.4	93	45.2	90	3	14-180/25
78-93-3	2-Butanone (MEK)	50	50.6	101	49.2	98	3	23-148/25
104-51-8	n-Butylbenzene	50	49.8	100	49.6	99	0	75-140/25
135-98-8	sec-Butylbenzene	50	46.0	92	45.5	91	1	74-139/25
98-06-6	tert-Butylbenzene	50	44.3	89	44.1	88	0	71-141/25
75-15-0	Carbon disulfide	50	44.6	89	45.0	90	1	45-156/25
56-23-5	Carbon tetrachloride	50	51.8	104	51.2	102	1	67-152/25
108-90-7	Chlorobenzene	50	43.9	88	44.1	88	0	76-121/25
75-00-3	Chloroethane	50	46.9	94	47.3	95	1	54-177/25
110-75-8	2-Chloroethyl vinyl ether	50	50.8	102	51.6	103	2	36-178/25
67-66-3	Chloroform	50	47.1	94	47.7	95	1	68-139/25
74-87-3	Chloromethane	50	42.1	84	40.4	81	4	33-171/25
95-49-8	o-Chlorotoluene	50	43.2	86	43.5	87	1	76-131/25
106-43-4	p-Chlorotoluene	50	46.0	92	45.6	91	1	76-130/25
124-48-1	Dibromochloromethane	50	50.3	101	51.6	103	3	82-130/25
95-50-1	1,2-Dichlorobenzene	50	46.1	92	45.3	91	2	81-127/25
541-73-1	1,3-Dichlorobenzene	50	44.3	89	44.1	88	0	80-124/25
106-46-7	1,4-Dichlorobenzene	50	45.8	92	45.5	91	1	78-124/25
75-71-8	Dichlorodifluoromethane	50	39.4	79	38.4	77	3	10-185/25
75-34-3	1,1-Dichloroethane	50	45.1	90	45.4	91	1	69-140/25
107-06-2	1,2-Dichloroethane	50	49.2	98	48.3	97	2	64-149/25
75-35-4	1,1-Dichloroethene	50	46.3	93	46.6	93	1	58-142/25
156-59-2	cis-1,2-Dichloroethene	50	46.3	93	46.6	93	1	68-129/25
156-60-5	trans-1,2-Dichloroethene	50	45.7	91	46.0	92	1	61-133/25
78-87-5	1,2-Dichloropropane	50	49.9	100	50.6	101	1	74-135/25
142-28-9	1,3-Dichloropropane	50	49.0	98	51.2	102	4	76-121/25
594-20-7	2,2-Dichloropropane	50	51.0	102	54.4	109	6	62-157/25
563-58-6	1,1-Dichloropropene	50	46.3	93	46.7	93	1	72-138/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

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	56.0	112	56.3	113	1	75-138/25
10061-02-6	trans-1,3-Dichloropropene	50	55.0	110	54.4	109	1	70-150/25
123-91-1	1,4-Dioxane	250	275	110	248	99	10	52-165/25
97-63-2	Ethyl methacrylate	50	56.9	114	56.2	112	1	62-138/25
100-41-4	Ethylbenzene	50	45.9	92	47.1	94	3	75-129/25
87-68-3	Hexachlorobutadiene	50	52.1	104	51.7	103	1	59-150/25
591-78-6	2-Hexanone	50	52.6	105	52.3	105	1	28-137/25
98-82-8	Isopropylbenzene	50	43.9	88	43.3	87	1	76-138/25
99-87-6	p-Isopropyltoluene	50	47.6	95	47.5	95	0	77-137/25
1634-04-4	Methyl Tert Butyl Ether	50	51.2	102	51.5	103	1	62-134/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	56.5	113	54.5	109	4	48-153/25
74-95-3	Methylene bromide	50	50.3	101	49.5	99	2	74-134/25
75-09-2	Methylene chloride	50	46.0	92	46.3	93	1	62-134/25
91-20-3	Naphthalene	50	50.5	101	49.0	98	3	32-196/25
103-65-1	n-Propylbenzene	50	44.9	90	45.3	91	1	74-138/25
100-42-5	Styrene	50	47.2	94	48.6	97	3	75-131/25
630-20-6	1,1,1,2-Tetrachloroethane	50	49.6	99	50.3	101	1	78-129/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.5	97	48.3	97	0	64-132/25
127-18-4	Tetrachloroethene	50	46.4	93	47.1	94	1	68-133/25
108-88-3	Toluene	50	47.0	94	46.5	93	1	75-134/25
87-61-6	1,2,3-Trichlorobenzene	50	46.4	93	47.6	95	3	51-169/25
120-82-1	1,2,4-Trichlorobenzene	50	50.8	102	51.6	103	2	62-146/25
71-55-6	1,1,1-Trichloroethane	50	48.9	98	49.7	99	2	66-152/25
79-00-5	1,1,2-Trichloroethane	50	50.9	102	50.5	101	1	70-138/25
79-01-6	Trichloroethene	50	50.3	101	49.9	100	1	70-131/25
75-69-4	Trichlorofluoromethane	50	47.5	95	47.7	95	0	43-168/25
96-18-4	1,2,3-Trichloropropane	50	54.1	108	53.2	106	2	61-134/25
95-63-6	1,2,4-Trimethylbenzene	50	45.6	91	45.4	91	0	76-133/25
108-67-8	1,3,5-Trimethylbenzene	50	49.7	99	49.0	98	1	72-131/25
108-05-4	Vinyl Acetate	50	94.0	188	92.9	186	1	10-200/25
75-01-4	Vinyl chloride	50	45.1	90	46.0	92	2	32-182/25
	m,p-Xylene	100	85.9	86	88.8	89	3	74-129/25
95-47-6	o-Xylene	50	41.9	84	43.0	86	3	77-127/25
1330-20-7	Xylene (total)	150	128	85	132	88	3	75-128/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3492-BS	N94686.D	1	02/05/15	JB	n/a	n/a	MSN3492
MSN3492-BSD	N94687.D	1	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	67-134%
2037-26-5	Toluene-D8	102%	102%	79-121%
460-00-4	4-Bromofluorobenzene	97%	97%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	MC36585-2 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		250	152	61	250	138	55	10	10-135/30
107-02-8	Acrolein	ND		1250	1510	121	1250	1310	105	14	10-165/30
107-13-1	Acrylonitrile	ND		250	290	116	250	229	92	24	43-165/30
71-43-2	Benzene	ND		250	233	93	250	229	92	2	69-136/30
108-86-1	Bromobenzene	ND		250	211	84	250	221	88	5	74-127/30
74-97-5	Bromochloromethane	ND		250	253	101	250	245	98	3	73-134/30
75-27-4	Bromodichloromethane	ND		250	243	97	250	239	96	2	63-163/30
75-25-2	Bromoform	ND		250	254	102	250	237	95	7	61-140/30
74-83-9	Bromomethane	ND		250	223	89	250	263	105	16	10-175/30
78-93-3	2-Butanone (MEK)	ND		250	269	108	250	217	87	21	19-130/30
104-51-8	n-Butylbenzene	ND		250	230	92	250	238	95	3	65-147/30
135-98-8	sec-Butylbenzene	ND		250	212	85	250	224	90	6	72-143/30
98-06-6	tert-Butylbenzene	ND		250	205	82	250	214	86	4	66-146/30
75-15-0	Carbon disulfide	ND		250	229	92	250	222	89	3	33-170/30
56-23-5	Carbon tetrachloride	ND		250	247	99	250	248	99	0	61-163/30
108-90-7	Chlorobenzene	ND		250	220	88	250	217	87	1	73-127/30
75-00-3	Chloroethane	ND		250	254	102	250	253	101	0	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	248	99	250	242	97	2	10-200/30
67-66-3	Chloroform	ND		250	238	95	250	230	92	3	65-146/30
74-87-3	Chloromethane	ND		250	202	81	250	216	86	7	23-176/30
95-49-8	o-Chlorotoluene	ND		250	205	82	250	214	86	4	67-142/30
106-43-4	p-Chlorotoluene	ND		250	214	86	250	225	90	5	70-137/30
124-48-1	Dibromochloromethane	ND		250	246	98	250	240	96	2	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		250	211	84	250	217	87	3	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		250	204	82	250	213	85	4	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		250	206	82	250	216	86	5	75-126/30
75-71-8	Dichlorodifluoromethane	ND		250	199	80	250	223	89	11	10-184/30
75-34-3	1,1-Dichloroethane	ND		250	230	92	250	222	89	4	66-148/30
107-06-2	1,2-Dichloroethane	ND		250	240	96	250	227	91	6	59-157/30
75-35-4	1,1-Dichloroethene	ND		250	234	94	250	226	90	3	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		250	238	95	250	233	93	2	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		250	233	93	250	225	90	3	57-142/30
78-87-5	1,2-Dichloropropane	ND		250	244	98	250	237	95	3	70-142/30
142-28-9	1,3-Dichloropropane	ND		250	246	98	250	237	95	4	73-126/30
594-20-7	2,2-Dichloropropane	ND		250	281	112	250	263	105	7	45-168/30
563-58-6	1,1-Dichloropropene	ND		250	222	89	250	224	90	1	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Compound	MC36585-2 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		250	272	109	250	263	105	3	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	266	106	250	251	100	6	64-153/30
123-91-1	1,4-Dioxane	ND		1250	1200	96	1250	1160	93	3	38-165/30
97-63-2	Ethyl methacrylate	ND		250	282	113	250	258	103	9	54-149/30
100-41-4	Ethylbenzene	ND		250	227	91	250	223	89	2	67-141/30
87-68-3	Hexachlorobutadiene	ND		250	241	96	250	249	100	3	52-152/30
591-78-6	2-Hexanone	ND		250	269	108	250	219	88	20	25-118/30
98-82-8	Isopropylbenzene	ND		250	207	83	250	218	87	5	71-144/30
99-87-6	p-Isopropyltoluene	ND		250	222	89	250	232	93	4	72-141/30
1634-04-4	Methyl Tert Butyl Ether	1.7		250	266	106	250	235	93	12	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	285	114	250	241	96	17	46-158/30
74-95-3	Methylene bromide	ND		250	244	98	250	227	91	7	70-141/30
75-09-2	Methylene chloride	ND		250	236	94	250	231	92	2	58-143/30
91-20-3	Naphthalene	ND		250	235	94	250	177	71	28	19-200/30
103-65-1	n-Propylbenzene	ND		250	214	86	250	222	89	4	67-145/30
100-42-5	Styrene	ND		250	226	90	250	231	92	2	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	241	96	250	236	94	2	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	235	94	250	229	92	3	61-137/30
127-18-4	Tetrachloroethene	ND		250	221	88	250	223	89	1	64-139/30
108-88-3	Toluene	ND		250	230	92	250	229	92	0	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	231	92	250	182	73	24	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	242	97	250	212	85	13	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		250	251	100	250	238	95	5	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		250	246	98	250	235	94	5	65-145/30
79-01-6	Trichloroethene	ND		250	241	96	250	237	95	2	64-139/30
75-69-4	Trichlorofluoromethane	ND		250	264	106	250	250	100	5	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		250	262	105	250	248	99	5	53-137/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	210	84	250	220	88	5	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	225	90	250	241	96	7	68-135/30
108-05-4	Vinyl Acetate	ND		250	488	195	250	420	168	15	10-200/30
75-01-4	Vinyl chloride	ND		250	240	96	250	249	100	4	25-187/30
	m,p-Xylene	ND		500	419	84	500	415	83	1	67-138/30
95-47-6	o-Xylene	ND		250	202	81	250	203	81	0	72-135/30
1330-20-7	Xylene (total)	ND		750	621	83	750	618	82	0	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36585-2MS	N94692.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2MSD	N94693.D	5	02/05/15	TT	n/a	n/a	MSN3490
MC36585-2	N94609.D	1	02/02/15	TT	n/a	n/a	MSN3490

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

MC36601-1, MC36601-2, MC36601-5, MC36601-6

CAS No.	Surrogate Recoveries	MS	MSD	MC36585-2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	99%	67-134%
2037-26-5	Toluene-D8	100%	100%	97%	79-121%
460-00-4	4-Bromofluorobenzene	97%	99%	96%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Compound	MC36601-4 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		25000	16900	68	25000	16000	64	5	10-135/30
107-02-8	Acrolein	ND		125000	140000	112	125000	140000	112	0	10-165/30
107-13-1	Acrylonitrile	ND		25000	28300	113	25000	25700	103	10	43-165/30
71-43-2	Benzene	107000		25000	125000	72	25000	125000	72	0	69-136/30
108-86-1	Bromobenzene	ND		25000	21500	86	25000	21600	86	0	74-127/30
74-97-5	Bromochloromethane	ND		25000	26000	104	25000	24800	99	5	73-134/30
75-27-4	Bromodichloromethane	ND		25000	24400	98	25000	24500	98	0	63-163/30
75-25-2	Bromoform	ND		25000	24600	98	25000	24200	97	2	61-140/30
74-83-9	Bromomethane	ND		25000	22000	88	25000	23900	96	8	10-175/30
78-93-3	2-Butanone (MEK)	ND		25000	25600	102	25000	24800	99	3	19-130/30
104-51-8	n-Butylbenzene	ND		25000	23100	92	25000	23300	93	1	65-147/30
135-98-8	sec-Butylbenzene	ND		25000	21900	88	25000	21600	86	1	72-143/30
98-06-6	tert-Butylbenzene	ND		25000	21200	85	25000	20900	84	1	66-146/30
75-15-0	Carbon disulfide	ND		25000	23100	92	25000	22500	90	3	33-170/30
56-23-5	Carbon tetrachloride	ND		25000	24200	97	25000	23900	96	1	61-163/30
108-90-7	Chlorobenzene	ND		25000	21600	86	25000	21600	86	0	73-127/30
75-00-3	Chloroethane	ND		25000	24700	99	25000	24500	98	1	56-176/30
110-75-8	2-Chloroethyl vinyl ether	ND		25000	25200	101	25000	24900	100	1	10-200/30
67-66-3	Chloroform	ND		25000	23700	95	25000	23300	93	2	65-146/30
74-87-3	Chloromethane	ND		25000	19400	78	25000	21600	86	11	23-176/30
95-49-8	o-Chlorotoluene	ND		25000	20900	84	25000	20700	83	1	67-142/30
106-43-4	p-Chlorotoluene	ND		25000	21600	86	25000	21500	86	0	70-137/30
124-48-1	Dibromochloromethane	ND		25000	24300	97	25000	24000	96	1	76-135/30
95-50-1	1,2-Dichlorobenzene	ND		25000	21600	86	25000	21600	86	0	74-134/30
541-73-1	1,3-Dichlorobenzene	ND		25000	20900	83	25000	20500	81	2	76-128/30
106-46-7	1,4-Dichlorobenzene	ND		25000	20900	83	25000	21600	86	3	75-126/30
75-71-8	Dichlorodifluoromethane	ND		25000	19100	76	25000	20500	82	7	10-184/30
75-34-3	1,1-Dichloroethane	ND		25000	22800	91	25000	22500	90	1	66-148/30
107-06-2	1,2-Dichloroethane	ND		25000	23700	95	25000	23500	94	1	59-157/30
75-35-4	1,1-Dichloroethene	ND		25000	23500	94	25000	23300	93	1	54-152/30
156-59-2	cis-1,2-Dichloroethene	ND		25000	23600	94	25000	24000	96	2	58-142/30
156-60-5	trans-1,2-Dichloroethene	ND		25000	23500	94	25000	23300	93	1	57-142/30
78-87-5	1,2-Dichloropropane	ND		25000	24700	99	25000	24400	98	1	70-142/30
142-28-9	1,3-Dichloropropane	ND		25000	25400	102	25000	24200	97	5	73-126/30
594-20-7	2,2-Dichloropropane	ND		25000	24600	98	25000	24100	96	2	45-168/30
563-58-6	1,1-Dichloropropene	ND		25000	22200	89	25000	22100	88	0	69-146/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Compound	MC36601-4 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		25000	26400	106	25000	26300	105	0	69-140/30
10061-02-6	trans-1,3-Dichloropropene	ND		25000	25200	101	25000	25800	103	2	64-153/30
123-91-1	1,4-Dioxane	ND		125000	142000	114	125000	131000	105	8	38-165/30
97-63-2	Ethyl methacrylate	ND		25000	33500	134	25000	27300	109	20	54-149/30
100-41-4	Ethylbenzene	773		25000	22800	88	25000	23000	89	1	67-141/30
87-68-3	Hexachlorobutadiene	ND		25000	24100	96	25000	24200	97	0	52-152/30
591-78-6	2-Hexanone	ND		25000	25800	103	25000	24900	100	4	25-118/30
98-82-8	Isopropylbenzene	ND		25000	21000	84	25000	20900	84	0	71-144/30
99-87-6	p-Isopropyltoluene	ND		25000	22300	89	25000	22900	92	3	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND		25000	25300	101	25000	25000	100	1	48-149/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25000	28100	112	25000	26700	107	5	46-158/30
74-95-3	Methylene bromide	ND		25000	24400	98	25000	24300	97	0	70-141/30
75-09-2	Methylene chloride	ND		25000	24100	96	25000	23800	95	1	58-143/30
91-20-3	Naphthalene	ND		25000	21400	86	25000	22800	91	6	19-200/30
103-65-1	n-Propylbenzene	ND		25000	21700	87	25000	21600	86	0	67-145/30
100-42-5	Styrene	ND		25000	25500	102	25000	24700	99	3	54-150/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		25000	23600	94	25000	23300	93	1	74-135/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		25000	24000	96	25000	22900	92	5	61-137/30
127-18-4	Tetrachloroethene	ND		25000	21800	87	25000	21500	86	1	64-139/30
108-88-3	Toluene	ND		25000	26500	106	25000	22700	91	15	72-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		25000	21100	84	25000	22300	89	6	40-170/30
120-82-1	1,2,4-Trichlorobenzene	ND		25000	22500	90	25000	24200	97	7	54-147/30
71-55-6	1,1,1-Trichloroethane	ND		25000	24700	99	25000	24300	97	2	61-164/30
79-00-5	1,1,2-Trichloroethane	ND		25000	24600	98	25000	24800	99	1	65-145/30
79-01-6	Trichloroethene	ND		25000	24200	97	25000	23800	95	2	64-139/30
75-69-4	Trichlorofluoromethane	ND		25000	24700	99	25000	24200	97	2	34-180/30
96-18-4	1,2,3-Trichloropropane	ND		25000	26200	105	25000	25100	100	4	53-137/30
95-63-6	1,2,4-Trimethylbenzene	652	J	25000	22200	86	25000	22100	86	0	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND		25000	23600	94	25000	23400	93	1	68-135/30
108-05-4	Vinyl Acetate	ND		25000	48200	193	25000	47600	190	1	10-200/30
75-01-4	Vinyl chloride	ND		25000	22100	88	25000	22500	90	2	25-187/30
	m,p-Xylene	342	J	50000	41300	82	50000	41400	82	0	67-138/30
95-47-6	o-Xylene	ND		25000	20200	81	25000	20500	82	1	72-135/30
1330-20-7	Xylene (total)	342	J	75000	61500	82	75000	61900	82	1	67-139/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC36601-4MS	N94707.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4MSD	N94708.D	500	02/05/15	JB	n/a	n/a	MSN3492
MC36601-4	N94695.D	500	02/05/15	JB	n/a	n/a	MSN3492

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4

CAS No.	Surrogate Recoveries	MS	MSD	MC36601-4	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	67-134%
2037-26-5	Toluene-D8	99%	100%	100%	79-121%
460-00-4	4-Bromofluorobenzene	97%	97%	103%	71-133%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3490-CC3452	**Injection Date:**	02/02/15
Lab File ID:	N94600.D	**Injection Time:**	09:20
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	283152	9.11	395047	9.98	210958	13.23	196265	15.79	108649	6.71
Upper Limit [a]	566304	9.61	790094	10.48	421916	13.73	392530	16.29	217298	7.21
Lower Limit [b]	141576	8.61	197524	9.48	105479	12.73	98133	15.29	54325	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3490-BS	294644	9.11	444197	9.98	203211	13.23	197138	15.79	96790	6.71
MSN3490-MB	290920	9.11	404662	9.98	179460	13.23	164129	15.79	108506	6.74
MC36601-6	288077	9.11	423944	9.98	195003	13.23	162170	15.79	112585	6.73
ZZZZZZ	288438	9.12	418467	9.98	188620	13.24	160767	15.79	99252	6.74
ZZZZZZ	286835	9.12	414795	9.98	188118	13.24	156639	15.79	93791	6.73
MC36585-2	284407	9.12	383324	9.98	190027	13.24	160767	15.79	96620	6.73
ZZZZZZ	270233	9.12	382964	9.98	174130	13.24	160681	15.79	102537	6.74
ZZZZZZ	282566	9.11	419074	9.98	190853	13.24	166420	15.79	98277	6.73
ZZZZZZ	284455	9.12	412857	9.98	192314	13.24	159820	15.79	108196	6.74
ZZZZZZ	269963	9.11	385642	9.98	178219	13.24	167523	15.79	108977	6.73
ZZZZZZ	262594	9.12	382071	9.98	172721	13.24	153149	15.79	82079	6.74
ZZZZZZ	262154	9.12	386327	9.98	176463	13.23	151159	15.79	77493	6.74
ZZZZZZ	257326	9.11	371786	9.98	173259	13.23	153716	15.79	77730	6.73
MC36601-1	282993	9.12	430229	9.98	197477	13.24	160247	15.79	88418	6.74
MC36601-2	286342	9.11	429133	9.98	199098	13.23	151428	15.79	87383	6.74
MC36601-5	281127	9.12	376148	9.99	149581	13.24	133567	15.79	85221	6.74

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSN3492-CC3491	**Injection Date:**	02/05/15
Lab File ID:	N94686.D	**Injection Time:**	09:11
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
Upper Limit [a]	794274	9.62	1216106	10.48	736190	13.73	515180	16.29	464370	7.21
Lower Limit [b]	198569	8.62	304027	9.48	184048	12.73	128795	15.29	116093	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3492-BS	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
MSN3490-BS1	397137	9.12	608053	9.98	368095	13.23	257590	15.79	232185	6.71
MSN3492-BSD	395673	9.11	614415	9.98	363153	13.23	259866	15.79	222591	6.71
MSN3492-MB	381294	9.12	601320	9.99	345430	13.24	231732	15.79	250742	6.74
MSN3490-MB1	381294	9.12	601320	9.99	345430	13.24	231732	15.79	250742	6.74
ZZZZZZ	377925	9.12	605037	9.98	352968	13.23	237537	15.79	256625	6.73
MC36601-3	378485	9.11	594809	9.98	346944	13.23	212631	15.79	154037	6.75
MC36585-2MS	373914	9.12	599550	9.98	356884	13.23	261113	15.79	241909	6.71
MC36585-2MSD	401125	9.11	633183	9.98	374129	13.23	256843	15.79	185874	6.71
ZZZZZZ	384426	9.11	598241	9.98	348241	13.23	235202	15.79	207729	6.74
MC36601-4	387808	9.11	616213	9.98	359089	13.23	233753	15.79	247771	6.74
ZZZZZZ	379494	9.11	591228	9.98	338627	13.23	215528	15.79	165908	6.75
ZZZZZZ	382083	9.11	597327	9.98	356994	13.23	231889	15.79	265979	6.73
ZZZZZZ	381321	9.11	596199	9.98	331495	13.24	202479	15.79	148963	6.75
ZZZZZZ	378328	9.12	601055	9.98	348223	13.24	230924	15.79	258863	6.73
ZZZZZZ	381899	9.12	609890	9.98	340067	13.23	219418	15.79	224420	6.75
ZZZZZZ	377534	9.12	589330	9.98	336034	13.23	211978	15.79	176284	6.74
ZZZZZZ	376516	9.12	598139	9.98	343937	13.24	233950	15.79	223536	6.74
ZZZZZZ	370678	9.11	585258	9.98	333034	13.24	224371	15.79	231304	6.74
ZZZZZZ	374034	9.12	589859	9.99	342745	13.23	221844	15.79	205353	6.74
ZZZZZZ	377782	9.12	600244	9.99	341856	13.23	222068	15.79	210599	6.74
ZZZZZZ	375525	9.12	606070	9.99	344137	13.23	227483	15.79	266536	6.74
MC36601-4MS	377271	9.11	609031	9.98	364472	13.23	255386	15.79	226252	6.71
MC36601-4MSD	383355	9.12	613031	9.98	371230	13.23	265072	15.79	215806	6.71
MC36601-1	392088	9.11	627338	9.98	356295	13.23	238798	15.79	214057	6.74
MC36601-2	394535	9.11	616512	9.98	354978	13.23	232680	15.79	204243	6.74

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36601-1	N94709.D	102	101	102
MC36601-1	N94619.D	100	98	98
MC36601-2	N94710.D	99	99	104
MC36601-2	N94620.D	100	88	99
MC36601-3	N94691.D	98	102	109
MC36601-4	N94695.D	100	100	103
MC36601-5	N94623.D	99	83	96
MC36601-6	N94605.D	99	90	97
MC36585-2MS	N94692.D	101	100	97
MC36585-2MSD	N94693.D	98	100	99
MC36601-4MS	N94707.D	100	99	97
MC36601-4MSD	N94708.D	100	100	97
MSN3490-BS	N94601.D	103	91	89
MSN3490-MB	N94604.D	100	94	92
MSN3492-BS	N94686.D	100	102	97
MSN3492-BSD	N94687.D	100	102	97
MSN3492-MB	N94689.D	100	100	100
MSN3490-MB1	N94689.D	100	100	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-134%
S2 = Toluene-D8	79-121%
S3 = 4-Bromofluorobenzene	71-133%

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-MB	X05549.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.25	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-MB	X05549.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.25	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	10-73%
4165-62-2	Phenol-d5	37%	10-58%
118-79-6	2,4,6-Tribromophenol	93%	15-125%
4165-60-0	Nitrobenzene-d5	72%	23-120%
321-60-8	2-Fluorobiphenyl	81%	31-102%
1718-51-0	Terphenyl-d14	107%	42-124%

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

Method Blank Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41817-MB	I94078.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	0.019	0.10	0.0074	ug/l	J
86-73-7	Fluorene	0.023	0.10	0.015	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.012	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
85-01-8	Phenanthrene	0.034	0.050	0.011	ug/l	J
129-00-0	Pyrene	0.017	0.10	0.0085	ug/l	J

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	81%	26-121%
321-60-8	2-Fluorobiphenyl	70%	28-107%
1718-51-0	Terphenyl-d14	112%	29-129%

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-BS	X05550.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	10.4	21	10-67
95-57-8	2-Chlorophenol	50	32.5	65	47-99
59-50-7	4-Chloro-3-methyl phenol	50	31.6	63	51-112
120-83-2	2,4-Dichlorophenol	50	36.5	73	51-110
105-67-9	2,4-Dimethylphenol	50	29.5	59	31-108
51-28-5	2,4-Dinitrophenol	50	35.6	71	10-121
534-52-1	4,6-Dinitro-o-cresol	50	43.4	87	35-135
95-48-7	2-Methylphenol	50	29.0	58	20-112
	3&4-Methylphenol	100	50.9	51	19-102
88-75-5	2-Nitrophenol	50	35.4	71	50-109
100-02-7	4-Nitrophenol	50	15.2	30	10-95
87-86-5	Pentachlorophenol	50	31.8	64	28-117
108-95-2	Phenol	50	13.8	28	21-49
95-95-4	2,4,5-Trichlorophenol	50	40.5	81	56-112
88-06-2	2,4,6-Trichlorophenol	50	36.8	74	54-112
62-53-3	Aniline	50	19.3	39	30-81
101-55-3	4-Bromophenyl phenyl ether	50	40.9	82	56-125
85-68-7	Butyl benzyl phthalate	50	39.0	78	59-138
100-51-6	Benzyl Alcohol	50	16.9	34	19-101
91-58-7	2-Chloronaphthalene	50	37.1	74	54-110
106-47-8	4-Chloroaniline	50	29.1	58	47-99
111-91-1	bis(2-Chloroethoxy)methane	50	32.3	65	50-116
111-44-4	bis(2-Chloroethyl)ether	50	28.2	56	45-123
108-60-1	bis(2-Chloroisopropyl)ether	50	29.3	59	28-160
7005-72-3	4-Chlorophenyl phenyl ether	50	37.1	74	57-117
122-66-7	1,2-Diphenylhydrazine	50	32.2	64	60-120
121-14-2	2,4-Dinitrotoluene	50	36.2	72	62-121
606-20-2	2,6-Dinitrotoluene	50	35.2	70	61-115
91-94-1	3,3'-Dichlorobenzidine	50	36.7	73	49-137
132-64-9	Dibenzofuran	50	37.2	74	56-105
84-74-2	Di-n-butyl phthalate	50	39.1	78	63-119
117-84-0	Di-n-octyl phthalate	50	39.3	79	52-160
84-66-2	Diethyl phthalate	50	36.8	74	44-127
131-11-3	Dimethyl phthalate	50	36.8	74	10-138
117-81-7	bis(2-Ethylhexyl)phthalate	50	39.2	78	63-145
118-74-1	Hexachlorobenzene	50	40.8	82	49-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-BS	X05550.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	20.5	41	10-89
67-72-1	Hexachloroethane	50	26.0	52	22-86
78-59-1	Isophorone	50	27.3	55	52-115
88-74-4	2-Nitroaniline	50	36.4	73	59-118
99-09-2	3-Nitroaniline	50	35.8	72	57-110
100-01-6	4-Nitroaniline	50	35.7	71	54-118
98-95-3	Nitrobenzene	50	28.8	58	50-117
62-75-9	n-Nitrosodimethylamine	50	24.2	48	15-83
621-64-7	N-Nitroso-di-n-propylamine	50	27.8	56	47-131
86-30-6	N-Nitrosodiphenylamine	50	37.3	75	59-109
110-86-1	Pyridine	50	8.0	16* [a]	19-69

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	10-73%
4165-62-2	Phenol-d5	31%	10-58%
118-79-6	2,4,6-Tribromophenol	91%	15-125%
4165-60-0	Nitrobenzene-d5	67%	23-120%
321-60-8	2-Fluorobiphenyl	75%	31-102%
1718-51-0	Terphenyl-d14	104%	42-124%

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41817-BS	I94079.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	33.1	66	45-116
208-96-8	Acenaphthylene	50	34.1	68	34-110
120-12-7	Anthracene	50	36.6	73	50-117
56-55-3	Benzo(a)anthracene	50	43.0	86	55-139
50-32-8	Benzo(a)pyrene	50	42.8	86	48-131
205-99-2	Benzo(b)fluoranthene	50	43.4	87	49-141
191-24-2	Benzo(g,h,i)perylene	50	42.7	85	60-130
207-08-9	Benzo(k)fluoranthene	50	36.9	74	49-133
218-01-9	Chrysene	50	39.9	80	52-128
53-70-3	Dibenzo(a,h)anthracene	50	41.6	83	60-136
206-44-0	Fluoranthene	50	40.1	80	46-132
86-73-7	Fluorene	50	34.9	70	53-120
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.7	85	57-134
90-12-0	1-Methylnaphthalene	50	30.3	61	41-105
91-57-6	2-Methylnaphthalene	50	30.9	62	36-111
85-01-8	Phenanthrene	50	35.5	71	50-120
129-00-0	Pyrene	50	41.4	83	48-127

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	74%	26-121%
321-60-8	2-Fluorobiphenyl	68%	28-107%
1718-51-0	Terphenyl-d14	107%	29-129%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-MS	X05551.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
OP41816-MSD	X05552.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
MC36600-13	X05553.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	MC36600-13 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		50	9.9	20* [a]	50	11.7	23* [a]	17	30-130/20
95-57-8	2-Chlorophenol	ND		50	35.1	70	50	35.4	71	1	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	33.2	66	50	33.7	67	1	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	38.9	78	50	39.3	79	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	31.1	62	50	31.8	64	2	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	35.2	70	50	37.6	75	7	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	42.7	85	50	45.5	91	6	30-130/20
95-48-7	2-Methylphenol	ND		50	31.0	62	50	31.4	63	1	30-130/20
	3&4-Methylphenol	ND		100	54.5	55	100	55.7	56	2	30-130/20
88-75-5	2-Nitrophenol	ND		50	38.8	78	50	38.3	77	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	14.9	30	50	15.9	32	6	30-130/20
87-86-5	Pentachlorophenol	ND		50	31.6	63	50	34.0	68	7	30-130/20
108-95-2	Phenol	ND		50	14.9	30	50	15.1	30	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	41.2	82	50	41.3	83	0	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	38.9	78	50	39.7	79	2	30-130/20
62-53-3	Aniline	ND		50	27.4	55	50	21.4	43	25* [b]	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	43.6	87	50	44.8	90	3	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	40.3	81	50	41.6	83	3	40-140/20
100-51-6	Benzyl Alcohol	ND		50	20.8	42	50	20.8	42	0	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	41.7	83	50	41.6	83	0	40-140/20
106-47-8	4-Chloroaniline	ND		50	32.5	65	50	31.2	62	4	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	37.2	74	50	36.5	73	2	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	32.3	65	50	31.9	64	1	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	33.4	67	50	32.6	65	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	41.1	82	50	41.3	83	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	34.5	69	50	35.4	71	3	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	38.5	77	50	39.7	79	3	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	37.9	76	50	38.8	78	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	38.9	78	50	40.9	82	5	40-140/20
132-64-9	Dibenzofuran	ND		50	40.7	81	50	40.6	81	0	40-140/20
84-74-2	Di-n-butyl phthalate	ND		50	40.2	80	50	42.1	84	5	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	40.0	80	50	42.2	84	5	40-140/20
84-66-2	Diethyl phthalate	ND		50	38.2	76	50	38.9	78	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	39.3	79	50	39.9	80	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	41.2	82	50	41.8	84	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	42.9	86	50	44.3	89	3	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41816-MS	X05551.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
OP41816-MSD	X05552.D	1	01/30/15	MR	01/26/15	OP41816	MSX181
MC36600-13	X05553.D	1	01/30/15	MR	01/26/15	OP41816	MSX181

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	MC36600-13 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	23.8	48	50	23.4	47	2	40-140/20
67-72-1	Hexachloroethane	ND		50	31.0	62	50	30.1	60	3	40-140/20
78-59-1	Isophorone	ND		50	31.1	62	50	30.6	61	2	40-140/20
88-74-4	2-Nitroaniline	ND		50	39.7	79	50	39.7	79	0	40-140/20
99-09-2	3-Nitroaniline	ND		50	37.7	75	50	37.8	76	0	40-140/20
100-01-6	4-Nitroaniline	ND		50	37.0	74	50	38.2	76	3	40-140/20
98-95-3	Nitrobenzene	ND		50	32.8	66	50	32.2	64	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	27.4	55	50	27.8	56	1	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	31.9	64	50	32.2	64	1	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	38.6	77	50	40.7	81	5	40-140/20
110-86-1	Pyridine	ND		50	14.6	29* c	50	10.3	21* c	35* b	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-13	Limits
367-12-4	2-Fluorophenol	51%	51%	52%	10-73%
4165-62-2	Phenol-d5	34%	34%	36%	10-58%
118-79-6	2,4,6-Tribromophenol	93%	96%	97%	15-125%
4165-60-0	Nitrobenzene-d5	73%	72%	76%	23-120%
321-60-8	2-Fluorobiphenyl	82%	81%	84%	31-102%
1718-51-0	Terphenyl-d14	104%	106%	109%	42-124%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41817-MS	I94080.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
OP41817-MSD	I94081.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510
MC36600-14	I94082.D	1	01/30/15	MR	01/26/15	OP41817	MSI3510

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5

CAS No.	Compound	MC36600-14 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	36.8	74	50	36.9	74	0	36-124/20
208-96-8	Acenaphthylene	ND		50	38.1	76	50	37.8	76	1	25-116/20
120-12-7	Anthracene	ND		50	37.9	76	50	38.7	77	2	42-122/20
56-55-3	Benzo(a)anthracene	ND		50	44.4	89	50	46.5	93	5	45-145/20
50-32-8	Benzo(a)pyrene	ND		50	44.1	88	50	45.8	92	4	40-136/20
205-99-2	Benzo(b)fluoranthene	ND		50	44.5	89	50	42.7	85	4	41-148/20
191-24-2	Benzo(g,h,i)perylene	ND		50	43.5	87	50	46.0	92	6	48-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	37.5	75	50	43.4	87	15	45-131/20
218-01-9	Chrysene	ND		50	40.8	82	50	43.0	86	5	41-135/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	42.5	85	50	44.6	89	5	49-144/20
206-44-0	Fluoranthene	ND		50	41.4	83	50	43.0	86	4	38-136/20
86-73-7	Fluorene	ND		50	37.6	75	50	38.0	76	1	43-127/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	43.6	87	50	45.7	91	5	45-142/20
90-12-0	1-Methylnaphthalene	ND		50	34.4	69	50	34.3	69	0	29-116/20
91-57-6	2-Methylnaphthalene	ND		50	35.4	71	50	35.0	70	1	27-117/20
85-01-8	Phenanthrene	ND		50	37.0	74	50	37.9	76	2	41-126/20
129-00-0	Pyrene	ND		50	42.6	85	50	43.9	88	3	41-131/20

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-14	Limits
4165-60-0	Nitrobenzene-d5	81%	80%	84%	26-121%
321-60-8	2-Fluorobiphenyl	73%	73%	73%	28-107%
1718-51-0	Terphenyl-d14	106%	109%	114%	29-129%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSI3510-CC3483	**Injection Date:**	01/30/15
Lab File ID:	I94077.D	**Injection Time:**	08:00
Instrument ID:	GCMSI	**Method:**	SW846 8270D 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	239723	3.65	482600	4.69	284341	6.21	506603	7.53	375508	10.30	954618	11.74
Upper Limit [a]	479446	4.15	965200	5.19	568682	6.71	1013206	8.03	751016	10.80	1909236	12.24
Lower Limit [b]	119862	3.15	241300	4.19	142171	5.71	253302	7.03	187754	9.80	477309	11.24

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
OP41817-MB	274263	3.65	556742	4.69	324837	6.21	567958	7.53	419218	10.30	1057404	11.74
OP41817-BS	281329	3.65	582983	4.69	329747	6.21	604195	7.54	441107	10.30	1077118	11.74
OP41817-MS	265898	3.65	554879	4.69	314846	6.21	577312	7.54	419407	10.30	1028077	11.74
OP41817-MSD	264839	3.65	547997	4.69	312550	6.21	570816	7.54	417832	10.30	1020128	11.74
MC36600-14	250223	3.65	508070	4.69	298086	6.21	525067	7.53	384805	10.30	973124	11.74
MC36601-1	262492	3.65	543437	4.69	312942	6.21	551359	7.53	406139	10.30	1010894	11.74
MC36601-2	261529	3.66	544996	4.69	316914	6.21	550331	7.53	403728	10.30	983201	11.74
MC36601-3	258695	3.65	539858	4.69	313381	6.21	550759	7.53	406722	10.30	1015799	11.74
MC36601-4	269312	3.66	555999	4.70	346381	6.21	580131	7.54	422923	10.30	1025775	11.74
MC36601-5	270599	3.66	570653	4.70	329450	6.21	586327	7.53	429874	10.30	1051480	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

(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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX181-CC176	**Injection Date:**	01/30/15
Lab File ID:	X05548.D	**Injection Time:**	10:28
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	560463	4.19	2037955	5.25	1142957	6.78	1879508	8.08	1793648	10.68	1642900	12.40
Upper Limit [a]	1120926	4.69	4075910	5.75	2285914	7.28	3759016	8.58	3587296	11.18	3285800	12.90
Lower Limit [b]	280232	3.69	1018978	4.75	571479	6.28	939754	7.58	896824	10.18	821450	11.90

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
OP41816-MB	563867	4.19	2027143	5.25	1116230	6.78	1847415	8.07	1748850	10.68	1583441	12.40
OP41816-BS	579080	4.19	2035668	5.25	1116990	6.78	1861291	8.08	1771940	10.68	1619442	12.40
OP41816-MS	563622	4.19	1979060	5.25	1099980	6.78	1819244	8.07	1719422	10.68	1589730	12.40
OP41816-MSD	561097	4.19	1993907	5.25	1104007	6.78	1802132	8.08	1748576	10.68	1585068	12.40
MC36600-13	523990	4.19	1896460	5.25	1051180	6.78	1732307	8.07	1678117	10.67	1537759	12.39
ZZZZZZ	560594	4.19	2007208	5.25	1121613	6.78	1867531	8.07	1825255	10.67	1663458	12.39
ZZZZZZ	592711	4.19	2112281	5.25	1170134	6.78	1942982	8.07	1824091	10.67	1671694	12.39
ZZZZZZ	550897	4.19	1965058	5.25	1098583	6.78	1815392	8.07	1721732	10.67	1591744	12.39
ZZZZZZ	552538	4.19	1970616	5.25	1108526	6.78	1832881	8.07	1752243	10.67	1612410	12.40
MC36601-1	543410	4.19	1947231	5.25	1096097	6.78	1796308	8.07	1718720	10.67	1594266	12.39
MC36601-2	556582	4.19	1975293	5.25	1102913	6.78	1798803	8.07	1693630	10.67	1563801	12.40
MC36601-3	519480	4.19	1867001	5.25	1053715	6.78	1736821	8.07	1716809	10.67	1613153	12.40
MC36601-4	538255	4.20	1914558	5.25	1072524	6.78	1739496	8.07	1678123	10.67	1561933	12.40
MC36601-5	556623	4.20	1969615	5.25	1098983	6.78	1791975	8.07	1735313	10.67	1612998	12.40
OP41841-MB	554921	4.19	1993481	5.25	1119756	6.78	1795758	8.07	1658041	10.67	1475444	12.39
OP41841-BS	561269	4.19	1967615	5.25	1075019	6.78	1740842	8.07	1598004	10.68	1421178	12.40
OP41841-BSD	574378	4.19	1999953	5.25	1119441	6.78	1804941	8.07	1654665	10.68	1465902	12.39
ZZZZZZ	600760	4.19	2090756	5.25	1122082	6.78	1786382	8.07	1594080	10.67	1469126	12.40
ZZZZZZ	664454	4.19	2315497	5.25	1230823	6.78	1983491	8.07	1804354	10.68	1648398	12.40
ZZZZZZ	571141	4.19	1991249	5.25	1086475	6.78	1749524	8.07	1582979	10.67	1424167	12.40
ZZZZZZ	582454	4.19	2041389	5.25	1096905	6.78	1758941	8.07	1615468	10.67	1465726	12.40
ZZZZZZ	609708	4.19	2134090	5.25	1164775	6.78	1860943	8.07	1709403	10.67	1545761	12.39
ZZZZZZ	590833	4.19	2051373	5.25	1104732	6.78	1762928	8.07	1592907	10.67	1455256	12.40
ZZZZZZ	607194	4.19	2115100	5.25	1148535	6.78	1843467	8.07	1661948	10.67	1520055	12.40
ZZZZZZ	612611	4.19	2161344	5.25	1180050	6.78	1882909	8.07	1696423	10.67	1517920	12.40
ZZZZZZ	686908	4.19	2363970	5.25	1277150	6.78	2025607	8.07	1845567	10.67	1660146	12.40
ZZZZZZ	611944	4.19	2130439	5.25	1155395	6.78	1853527	8.07	1684319	10.67	1533130	12.40

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	MSX181-CC176	**Injection Date:**	01/30/15
Lab File ID:	X05548.D	**Injection Time:**	10:28
Instrument ID:	GCMSX	**Method:**	SW846 8270D

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

(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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC36601-1	X05558.D	38	26	78	54	67	79
MC36601-2	X05559.D	51	33	103	76	91	104
MC36601-3	X05560.D	49	32	97	75	85	100
MC36601-4	X05561.D	51	32	104	75	85	100
MC36601-5	X05562.D	46	31	99	71	83	96
OP41816-BS	X05550.D	47	31	91	67	75	104
OP41816-MB	X05549.D	53	37	93	72	81	107
OP41816-MS	X05551.D	51	34	93	73	82	104
OP41816-MSD	X05552.D	51	34	96	72	81	106

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-73%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	15-125%
S4 = Nitrobenzene-d5	23-120%
S5 = 2-Fluorobiphenyl	31-102%
S6 = Terphenyl-d14	42-124%

Semivolatile Surrogate Recovery Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC36601-1	I94083.D	62	59	83
MC36601-2	I94084.D	85	78	109
MC36601-3	I94085.D	81	73	106
MC36601-4	I94086.D	83	69	106
MC36601-5	I94087.D	78	70	102
OP41817-BS	I94079.D	74	68	107
OP41817-MB	I94078.D	81	70	112
OP41817-MS	I94080.D	81	73	106
OP41817-MSD	I94081.D	80	73	109

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	26-121%
S2 = 2-Fluorobiphenyl	28-107%
S3 = Terphenyl-d14	29-129%

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-MB	BK45895.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5, MC36601-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	106%	60-140%
460-00-4	Bromofluorobenzene (S)	101%	60-140%

Blank Spike Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-BS	BK45896.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5, MC36601-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.083	117	45-149
106-93-4	1,2-Dibromoethane	0.071	0.080	113	51-149

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	86%	60-140%
460-00-4	Bromofluorobenzene (S)	82%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41840-MS	BK45897.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
OP41840-MSD	BK45898.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428
MC36600-24	BK45899.D	1	01/30/15	NK	01/28/15	OP41840	GBK1428

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

MC36601-1, MC36601-2, MC36601-3, MC36601-4, MC36601-5, MC36601-7

CAS No.	Compound	MC36600-24 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	0.070	99	0.071	0.070	99	0	31-169/30
106-93-4	1,2-Dibromoethane	ND		0.071	0.067	94	0.071	0.067	94	0	34-175/30

CAS No.	Surrogate Recoveries	MS	MSD	MC36600-24	Limits
460-00-4	Bromofluorobenzene (S)	87%	98%	89%	60-140%
460-00-4	Bromofluorobenzene (S)	98%	111%	85%	60-140%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 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]
MC36601-1	BK45906.D	104	113
MC36601-2	BK45907.D	101	108
MC36601-3	BK45908.D	113	116
MC36601-4	BK45909.D	86	86
MC36601-5	BK45910.D	87	90
MC36601-7	BK45911.D	106	105
OP41840-BS	BK45896.D	86	82
OP41840-MB	BK45895.D	106	101
OP41840-MS	BK45897.D	87	98
OP41840-MSD	BK45898.D	98	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	60-140%

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

GC Surrogate Retention Time Summary

Job Number: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1428-CC1427	**Injection Date:**	01/30/15
Lab File ID:	BK45894A.D	**Injection Time:**	00:21
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP41840-MB	BK45895.D	01/30/15	00:40	4.45	4.64
OP41840-BS	BK45896.D	01/30/15	00:58	4.45	4.64
OP41840-MS	BK45897.D	01/30/15	01:17	4.45	4.64
OP41840-MSD	BK45898.D	01/30/15	01:35	4.45	4.64
MC36600-24	BK45899.D	01/30/15	01:54	4.45	4.64
ZZZZZZ	BK45900.D	01/30/15	02:13	4.45	4.64
ZZZZZZ	BK45901.D	01/30/15	02:32	4.45	4.64
ZZZZZZ	BK45902.D	01/30/15	02:51	4.45	4.64
ZZZZZZ	BK45903.D	01/30/15	03:09	4.45	4.64
ZZZZZZ	BK45904.D	01/30/15	03:28	4.45	4.64

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: MC36601
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 1Q15 GW/ 21563720.03001 900 South Central Avenue, Roxana, IL

Check Std:	GBK1428-CC1427	**Injection Date:**	01/30/15
Lab File ID:	BK45905.D	**Injection Time:**	03:47
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.45	4.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC36601-1	BK45906.D	01/30/15	04:06	4.45	4.64
MC36601-2	BK45907.D	01/30/15	04:25	4.45	4.64
MC36601-3	BK45908.D	01/30/15	04:43	4.45	4.64
MC36601-4	BK45909.D	01/30/15	05:01	4.44	4.64
MC36601-5	BK45910.D	01/30/15	05:19	4.44	4.64
MC36601-7	BK45911.D	01/30/15	05:38	4.45	4.64
GBK1428-ECC1428	BK45912.D	01/30/15	05:56	4.45	4.64

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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