Hazardous Waste Section

File Room Document Transmittal Sheet

Your Name:	Katherine O'Neal
EPA ID:	N C D 0 4 2 0 9 1 9 7 5
Facility Name:	Mallinckrodt LLC
Document Group:	Groundwater (GW)
Document Type:	Groundwater Monitoring Report (GMR)
Description:	March 2014 semi annual groundwater monitoring report
Date of Doc:	4/16/2014
Author of Doc:	

File Room Use Only

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	Month	Day	Year
Date Recieved by File Room:	5	1	2014
Date Scanned:	5	1	2014

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FORMER BASINS 1 & 2 POST-CLOSURE SEMI-ANNUAL GROUNDWATER MONITORING REPORT MARCH 2014

Prepared for
Mallinckrodt LLC
Raleigh Pharmaceutical Plant
8801 Capital Boulevard
Raleigh, NC 27616

Prepared by
SOLUTIONS-IES, INC.
1101 Nowell Road
Raleigh, NC 27607

RECEIVED
APR 2014

Solutions-IES Project No. 2014.0012.MKGR

April 16, 2014

Mallinckrodt
Pharmaceuticals

APR 2014

April 28, 2014

Ms. Katherine O'Neal
Hazardous Waste Section
North Carolina Division of Waste Management
217 West Jones St.
Raleigh, NC 27603

Re: Mallinckrodt LLC
EPA ID NCD 042 091 9175
Basin 1& 2 Post-Closure Groundwater Compliance Monitoring –~~September~~ March Sampling Event

Dear Ms. O'Neal:

Attached please find one copy of our March 2014 groundwater sampling and analysis data. This data is being submitted to fulfill the reporting requirements outlined in Section 5.2 of the Post-Closure Plan for Basins 1 and 2 located at the Mallinckrodt LLC Raleigh Pharmaceutical Plant, 8801 Capital Boulevard, Raleigh, North Carolina.

> I certify under penalty of law that this document was prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact Tim Roberts at 919-878-2895 if you have any questions concerning this report.

Sincerely,

Mallinckrodt LLC

R. Scott Warlick

Scott Warlick
Plant Manager

Attachment

cc: Karen Burke, Mallinckrodt, w/Attachments
Tim Roberts, Mallinckrodt, w/o Attachments
James Tiger, Solutions-IES, w/o Attachments

Submitted via Federal Express Tracking # 8771 0033 5329

Solutions-IES
Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
(919) 873-1060 ■ Fax (919) 873-1074
www.solutions-ies.com

April 16, 2014

Mr. Tim Roberts
Mallinckrodt LLC
Raleigh Pharmaceutical Plant
8801 Capital Blvd
Raleigh, NC 27616

Re: Former Basins 1 & 2 Post-Closure Semi-Annual Groundwater Monitoring Report
March 2014
Solutions-IES Project No. 2014.0012.MKGR

Dear Mr. Roberts:

Please find attached two copies of the Former Basins 1 & 2 Post-Closure Semi-Annual Groundwater Monitoring Report for the March 2014 monitoring event performed on March 11, 2014. One copy of this report is due to the North Carolina Department of Environment and Natural Resources, Hazardous Waste Section by April 30, 2014. One additional copy of the report has been submitted to Ms. Karen Burke of Covidien. The following documents comprise this report.

- Groundwater Sampling Forms (WW-7S, WW-9S, WW-10S and WW-10D)
- Table 1 Summary of Laboratory Analytical Results
- Table 2 Summary of QA/QC Laboratory Analytical Results
- Table 3 Summary of Groundwater Elevation Data
- Shallow Potentiometric Surface Map – March 11, 2014
- Laboratory Analytical Report
- Summary of Historical Laboratory Analytical Results (WW-7S, WW-9S, WW-10S and WW-10D)

If you have any questions or need any additional information, please feel free to contact us at (919) 873-1060.

Yours truly,

Solutions-IES

James P. Tiger

M. Tony Lieberman

James P. Tiger
Project Manager

M. Tony Lieberman
Senior Consultant

cc: Ms. Karen Burke, Covidien (Electronic Copy and Hard Copy)

APR 2014

Solutions-IES
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0012.MKGR	Date	3/11/2014
Project Name	Mallinckrodt Basins	Site/Well No.	**WW-7S**
Project Location	8801 Capital Blvd, Raleigh, NC	Weather Conditions	70s, sunny
Time Purge Began	15:45	Time Purge Ended-Sample time	16:05

WATER LEVEL MEASUREMENT

Depth to Water Below Top of Casing (TOC)	12.10 ft.	TOC Elevation	266.33 ft.
Total Depth of Well Below TOC	25.0 ft.	Screen Interval	10 ft
Pump Intake or Tubing Depth Below TOC	20.0 ft.		

WELL PURGING DATA AND FIELD PARAMETERS

X	Time of Measurement	**15:50**	**15:55**	**16:00**	**16:05**			
X	Purge Rate (mL/min)	250	250	250	250			
X	Ph (SU)	6.26	6.3	6.31	6.31			
X	Conductivity (µs/cm)	899	893	892	891			
X	Temperature (°C)	18.21	18.41	18.36	18.31			
X	Turbidity (NTUs)	6.4	4.6	4.3	4.1			
X	Water Level (ft btoc)	12.41	12.45	12.46	12.46			
X	Odor (Subjective)	Sweet	Sweet	Sweet	Sweet			
X	Color (Subjective)	Yellowish	Mostly Clear	Mostly Clear	Mostly Clear			

Comments: Retubed with 50' of 3/8 tubing for duplicate (8 VOAs)

SAMPLING METHOD

Low Flow Purge and Sampling completed with Peristaltic Pump

ANALYSIS REQUESTED

X	VOCs by 8260
X	SVOCs plus Aniline and Nitrobenzene by 8270
X	Appendix IX parameters

Remarks: Collect Dup-1

SAMPLING PERSONNEL

1. Sean Jarvah 2. 3.

Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.1 units Specific Conductance: + 5%
Turbidity: < 10 NTU

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WATER SAMPLING LOG

Project Number	2014.0012.MKGR	Date	3/11/2014
Project Name	Mallinckrodt Basins	Site/Well No.	**WW-9S**
Project Location	8801 Capital Blvd, Raleigh, NC	Weather Conditions	70s, sunny
Time Purge Began	10:55	Time Purge Ended-Sample time	11:15

WATER LEVEL MEASUREMENT

Depth to Water Below Top of Casing (TOC)	14.55 ft.	TOC Elevation	255.23 ft.
Total Depth of Well Below TOC	24.5 ft.	Screen Interval	10 ft
Pump Intake or Tubing Depth Below TOC	21.0 ft.		

WELL PURGING DATA AND FIELD PARAMETERS

X	Time of Measurement	**11:00**	**11:05**	**2:24**	**11:15**			
X	Purge Rate (mL/min)	250	250	250	250			
X	Ph (SU)	4.82	4.66	4.63	4.64			
X	Conductivity (µs/cm)	203	204	204	205			
X	Temperature (°C)	17.91	18.11	18.14	18.18			
X	Turbidity (NTUs)	8.5	4.4	4.2	3.3			
X	Water Level (ft btoc)	14.85	14.85	14.85	14.85			
X	Odor (Subjective)	None	None	None	None			
X	Color (Subjective)	Clear	Clear	Clear	Clear			

Comments:

SAMPLING METHOD

Low Flow Purge and Sampling completed with Peristaltic Pump

ANALYSIS REQUESTED

X	VOCs by 8260
X	SVOCs plus Aniline and Nitrobenzene by 8270
X	Appendix IX parameters

Remarks:

SAMPLING PERSONNEL

1. Sean Jarvah 2. 3.

Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.1 units Specific Conductance: + 5%
Turbidity: < 10 NTU

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WATER SAMPLING LOG

Project Number	2014.0012.MKGR	Date	3/11/2014
Project Name	Mallinckrodt Basins	Site/Well No.	**WW-10S**
Project Location	8801 Capital Blvd, Raleigh, NC	Weather Conditions	70s, sunny
Time Purge Began	12:15	Time Purge Ended-Sample time	12:35

WATER LEVEL MEASUREMENT

Depth to Water Below Top of Casing (TOC)	11.05	ft.	TOC Elevation	251.13 ft.
Total Depth of Well Below TOC	25	ft.	Screen Interval	10 ft
Pump Intake or Tubing Depth Below TOC	20	ft.		

WELL PURGING DATA AND FIELD PARAMETERS

X	Time of Measurement	**12:20**	**12:25**	**12:30**	**12:35**			
X	Purge Rate (mL/min)	275	275	275	275			
X	Ph (SU)	4.49	4.38	4.36	4.35			
X	Conductivity (µs/cm)	196	191	190	189			
X	Temperature (°C)	17.86	17.94	17.97	17.99			
X	Turbidity (NTUs)	4.9	3.7	3.4	3.2			
X	Water Level (ft btoc)	11.12	11.13	11.13	11.14			
X	Odor (Subjective)	None	None	None	None			
X	Color (Subjective)	Clear	Clear	Clear	Clear			

Comments:

SAMPLING METHOD

Low Flow Purge and Sampling completed with Peristaltic Pump

ANALYSIS REQUESTED

X	VOCs by 8260
X	SVOCs plus Aniline and Nitrobenzene by 8270
X	Appendix IX parameters

Remarks:

SAMPLING PERSONNEL

1. Sean Jarvah 2. 3.

Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.1 units Specific Conductance: + 5%
Turbidity: < 10 NTU

Solutions-IES
Industrial & Environmental Services

WATER SAMPLING LOG

Project Number	2014.0012.MKGR	Date	3/11/2014
Project Name	Mallinckrodt Basins	Site/Well No.	**WW-10D**
Project Location	8801 Capital Blvd, Raleigh, NC	Weather Conditions	70s, sunny
Time Purge Began	13:35	Time Purge Ended-Sample time	13:55

WATER LEVEL MEASUREMENT

Depth to Water Below Top of Casing (TOC)	11.37 ft.	TOC Elevation	251.10 ft.
Total Depth of Well Below TOC	85 ft.	Screen Interval	10 ft
Pump Intake or Tubing Depth Below TOC	80 ft.		

WELL PURGING DATA AND FIELD PARAMETERS

X	Time of Measurement	**13:40**	**13:45**	**13:50**	**13:55**			
X	Purge Rate (mL/min)	275	275	275	275			
X	Ph (SU)	4.75	6.29	6.31	6.33			
X	Conductivity (µs/cm)	2,029	2,006	2,000	1,995			
X	Temperature (°C)	17.89	18.36	18.40	18.42			
X	Turbidity (NTUs)	8.6	4.4	3.8	3.2			
X	Water Level (ft btoc)	11.51	11.51	11.52	11.52			
X	Odor (Subjective)	None	None	None	None			
X	Color (Subjective)	Pinkish	Pinkish	Pinkish	Pinkish			

Comments:

SAMPLING METHOD

Low Flow Purge and Sampling completed with Peristaltic Pump

ANALYSIS REQUESTED

X	VOCs by 8260
X	SVOCs plus Aniline and Nitrobenzene by 8270

Remarks:

SAMPLING PERSONNEL

1. Sean Jarvah 2. 3.

Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.1 units Specific Conductance: + 5%
Turbidity: < 10 NTU

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
POST-CLOSURE GROUNDWATER MONITORING FOR BASINS 1 AND 2
MALLINCKRODT LLC-RALEIGH PHARMACEUTICAL PLANT
MARCH 11, 2014
EPA ID NCD 042 091 975

Well ID	WW-7S	WW-7S Duplicate	WW-9S	WW-10S	WW-10D	NC 2L Standard	RCRA Groundwater Protection Standard
VOCs by EPA Method 8260B (µg/L)							
Benzene	**1.7**	**1.7**	<0.072	<0.072	**32**	1	1
Chlorobenzene	<0.061	<0.061	<0.061	<0.061	**0.54**	50	NE
Chloroform	<0.089	<0.089	<0.089	<0.089	<0.089	70	NE
Diisopropyl Ether	**1.9**	**1.9**	<0.043	<0.043	<0.043	70	NE
1,2-Dichloroethane	<0.14	<0.14	<0.14	<0.14	<0.14	0.4	NE
Ethylbenzene	<0.067	<0.067	<0.067	<0.067	**1.1**	600	550
Isopropylbenzene	<0.072	<0.072	<0.072	<0.072	<0.072	70	NE
4-Isopropyltoluene	<0.065	<0.065	<0.065	<0.065	<0.065	25	NE
Methylene Chloride	<0.44	<0.44	<0.44	<0.44	**1.5**	5	NE
Naphthalene	<0.098	<0.098	<0.098	<0.098	**0.66 J**	6	NE
n-Propylbenzene	<0.060	<0.060	<0.060	<0.060	<0.060	70	NE
Toluene	<0.042	<0.042	<0.042	<0.042	**0.79**	600	1,000
Vinyl Chloride	<0.16	<0.16	<0.16	<0.16	<0.16	0.03	NE
Xylenes	<0.081	<0.081	<0.081	<0.081	**4.1**	500	530
SVOCs by EPA Method 8270D (µg/L)							
Aniline	**34**	**33**	<2.5	<2.5	**9.6 J**	NE	20
4-Aminobiphenyl	**2.9 J**	**2.9 J**	<0.94	<0.92	NA	NE	NE
Total Metals by EPA Method 6010C/7470A, Appendix IX List (mg/L)							
Barium	**0.030**	**0.032**	**0.042**	**0.082**	NA	0.7	1.0
Beryllium	<0.00012	<0.00012	**0.0070**	<0.00012		0.004 [1]	NE
Cobalt	**0.066**	**0.068**	**0.058**	**0.020**		0.001 [1]	NE
Zinc	<0.0025	<0.0025	**0.037**	<0.0025		1	NE
Chlorinated Herbicides by EPA Method 3510C, Appendix IX List (µg/L)							
All Compounds	BRL	BRL	BRL	BRL	NA	NE	NE
Organochlorine Pesticides by EPA Method 8081B, Appendix IX List (µg/L)							
All Compounds	BRL	BRL	BRL	BRL	NA	NE	NE
Dioxans and Furans by EPA Method 8290, Appendix IX List (pg/L)							
Heptachlorodibenzo-p-dioxin	<0.550	<2.16	**1.30 J**	**1.24 J**	NA	NE	NE
Pentachlorodibenzofuran	**0.383 J**	<0.886	<0.305	<0.346		28,000,000 [2]	NE
Heptachlorodibenzofuran	<0.232	<1.40	**0.420 J**	<0.355		28,000,000 [2]	NE
Polychlorinated Biphenyls by EPA Method 8082A, Appendix IX List (µg/L)							
All Compounds	BRL	BRL	BRL	BRL	NA	NE	NE
Sulfide by SM4500 (mg/L)							
Sulfide	<0.45	<0.45	<0.45	<0.45	NA	NE	NE
Cyanide by EPA Method 9014 (mg/L)							
Cyanide	<0.0018	<0.0018	<0.0018	<0.0018	NA	70	NE

Notes:

Target analytes not listed were not reported above the laboratory quantitation limit.
NC 2L Standard – Title 15A NCAC 02L.0202 Groundwater Quality Standard
µg/L - Micrograms per liter
mg/L - Milligrams per liter
pg/L - Picograms per liter
Bold values represent concentrations above the laboratory reporting limit.
Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.
J - Estimated value between the laboratory method detection limit and reporting limit.
NE - Not established
NA - Not analyzed
1 - Interim Maximum Allowable Concentration (IMAC) NC 2L Standard
2 - As IMAC for dibenzofuran

TABLE 2
SUMMARY OF QA/QC LABORATORY ANALYTICAL RESULTS
POST-CLOSURE GROUNDWATER MONITORING FOR BASINS 1 AND 2
MALLINCKRODT LLC-RALEIGH PHARMACEUTICAL PLANT
MARCH 11, 2014
EPA ID NCD 042 091 975

Sample ID	Field Blank	Rinse Blank	Trip Blank
VOCs by EPA Method 8260 (µg/L)			
Acetone	<0.62	**11**	<0.62
Methyl Ethyl Ketone	<0.90	**2.7 J**	<0.90
SVOCs by EPA Method 8270 (µg/L)			
All Compounds	BRL	BRL	NA
Total Metals by EPA Method 6010C/7470A, Appendix IX List (mg/L)			
All Compounds	NA	BRL	NA
Chlorinated Herbicides by EPA Method 3510C, Appendix IX List (µg/L)			
All Compounds	NA	BRL	NA
Organochlorine Pesticides by EPA Method 8081B, Appendix IX List (µg/L)			
All Compounds	NA	BRL	NA
Dioxans and Furans by EPA Method 8290, Appendix IX List (pg/L)			
All Compounds	NA	BRL	NA
Polychlorinated Biphenyls by EPA Method 8082A, Appendix IX List (µg/L)			
All Compounds	NA	BRL	NA
Sulfide by SM4500 (mg/L)			
Sulfide	NA	<0.45	NA
Cyanide by EPA Method 9014 (mg/L)			
Cyanide	NA	<0.0018	NA

Notes:

µg/L - Micrograms per liter
mg/L - Milligrams per liter
pg/L - Picograms per liter
BRL - Below reporting limits
NA - Not analyzed

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA
POST-CLOSURE GROUNDWATER MONITORING FOR BASINS 1 AND 2
MALLINCKRODT LLC-RALEIGH PHARMACEUTICAL PLANT
MARCH 11, 2014
EPA ID NCD 042 091 975

Well ID	TOC Elevation (ft AMSL)	GW Depth (ft BTOC)	GW Elevation (ft AMSL)
MA-1	277.90	19.73	258.17
MA-3S	278.35	19.65	258.70
MA-3D	278.24	19.20	259.04
MA-4S	278.75	20.06	258.69
MA-4D	277.93	19.30	258.63
OS-5S	283.18	31.63	251.55
OS-5D	282.57	31.30	251.27
OS-6S	246.97	9.98	236.99
PZ-4	262.65	9.51	253.14
PZ-5	261.14	3.87	257.27
PZ-6	259.65	17.88	241.77
PZ-8S	261.63	8.71	252.92
PZ-8D	261.77	8.48	253.29
TP-1S	278.78	23.96	254.82
TP-1D	278.63	23.75	254.88
TP-2S	272.05	14.37	257.68
TP-4S	288.91	31.26	257.65
TP-4D	288.55	30.50	258.05
WW-1S	262.22	12.35	249.87
WW-1D	261.73	10.55	251.18
WW-2S	248.93	12.60	236.33
WW-2D	248.68	12.45	236.23
WW-7S	266.33	12.10	254.23
WW-7D	266.03	11.96	254.07
WW-9S	255.23	14.55	240.68
WW-9D	255.46	14.75	240.71
WW-10S	251.13	11.05	240.08
WW-10D	251.10	11.37	239.73
WW-11S	256.16	15.05	241.11
WW-11D	256.07	12.50	243.57

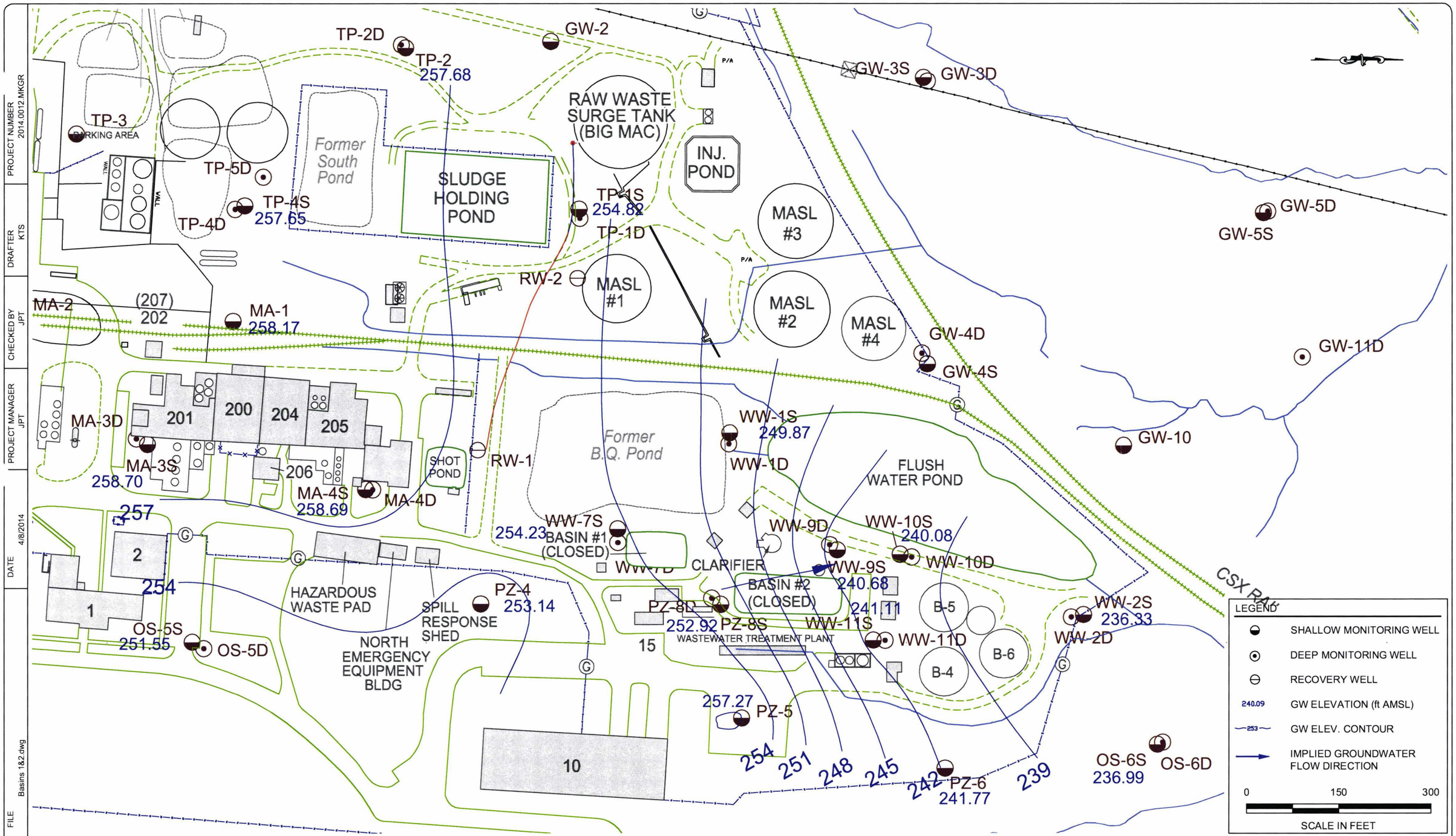
Notes:

TOC - Top of casing

GW - Groundwater

ft AMSL - Feet above mean sea level

ft BTOC - Feet below top of casing



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTE:
1) BASEMAP PROVIDED BY ARCADIS.

MALLINCKRODT LLC
RALEIGH, NORTH CAROLINA

SHALLOW POTENTIOMETRIC SURFACE MAP
POST-CLOSURE GROUNDWATER MONITORING AT FORMER BASINS 1 AND 2
MARCH 11, 2014

FIGURE: 1

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/10/2014

Solutions-IES, Inc.
James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Lab Submittal Date: 03/12/2014
Prism Work Order: 4030246

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a revised report and supercedes the original laboratory report dated 4/8/14. Additional 8260 and 8270 compounds have been added.

Method 8290 subcontracted to Cape Fear Analytical. Herbicide analysis analysis was subcontracted to ΔES. Laboratory reports are attached.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Data Qualifiers Key Reference:

A	Compound did not pass method calibration criteria. Results should be considered as estimates.
Aa	Sample received without Zn Acetate preservative. Preservative added at time of analysis.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
ICV	ICV result is above the control limits. Analyte not detected in the sample. No further action taken.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
P	Recovery outside of the QC limits due to inconsistency during extraction and chromatographic performance of this compound.
SE	Surrogate recovery outside the QC limits due to emulsion.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

04/10/2014

Prism Work Order: 4030246

'ent Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
WW-9S	4030246-01	Water	03/11/14	03/12/14
WW-10S	4030246-02	Water	03/11/14	03/12/14
Field Blank	4030246-03	Water	03/11/14	03/12/14
WW-10D	4030246-04	Water	03/11/14	03/12/14
WW-7S	4030246-05	Water	03/11/14	03/12/14
Duplicate	4030246-06	Water	03/11/14	03/12/14
Rinse Blank	4030246-07	Water	03/11/14	03/12/14
Trip Blank	4030246-08	Water	03/11/14	03/12/14

Samples were received in good condition at 4.9 degrees C unless otherwise noted.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/10/2014

Prism Work Order: 4030246

Prism ID	Client ID	Parameter	Method	Result		Units
4030246-01	WW-9S	Barium	*6010C	0.042		mg/L
4030246-01	WW-9S	Beryllium	*6010C	0.0070		mg/L
4030246-01	WW-9S	Cobalt	*6010C	0.058		mg/L
4030246-01	WW-9S	Zinc	*6010C	0.037		mg/L
4030246-02	WW-10S	Barium	*6010C	0.082		mg/L
4030246-02	WW-10S	Cobalt	*6010C	0.020		mg/L
4030246-04	WW-10D	Aniline	8270D	9.6	J	ug/L
4030246-04	WW-10D	Benzene	8260B	32		ug/L
4030246-04	WW-10D	Chlorobenzene	8260B	0.54		ug/L
4030246-04	WW-10D	Ethylbenzene	8260B	1.1		ug/L
4030246-04	WW-10D	m,p-Xylenes	8260B	3.2		ug/L
4030246-04	WW-10D	Methylene Chloride	8260B	1.5		ug/L
4030246-04	WW-10D	Naphthalene	8260B	0.66	J	ug/L
4030246-04	WW-10D	o-Xylene	8260B	0.89		ug/L
4030246-04	WW-10D	Toluene	8260B	0.79		ug/L
4030246-04	WW-10D	Xylenes, total	8260B	4.1		ug/L
4030246-05	WW-7S	4-Aminobiphenyl	8270D	2.9	J	ug/L
4030246-05	WW-7S	Aniline	8270D	34		ug/L
4030246-05	WW-7S	Barium	*6010C	0.030		mg/L
4030246-05	WW-7S	Cobalt	*6010C	0.066		mg/L
4030246-05	WW-7S	Benzene	8260B	1.7		ug/L
4030246-05	WW-7S	Isopropyl Ether	8260B	1.9		ug/L
4030246-06	Duplicate	4-Aminobiphenyl	8270D	2.9	J	ug/L
4030246-06	Duplicate	Aniline	8270D	33		ug/L
4030246-06	Duplicate	Barium	*6010C	0.032		mg/L
4030246-06	Duplicate	Cobalt	*6010C	0.068		mg/L
4030246-06	Duplicate	Benzene	8260B	1.7		ug/L
4030246-06	Duplicate	Isopropyl Ether	8260B	1.9		ug/L
4030246-07	Rinse Blank	Acetone	8260B	11		ug/L
4030246-07	Rinse Blank	Methyl Ethyl Ketone (2-Butanone)	8260B	2.7	J	ug/L

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

ˈlutions-IES, Inc.
ɔ: James P. Tiger
ı101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Cyanide	BRL	mg/L	0.0050	0.0018	1	*9014	3/21/14 10:28	CLB	P4C0410
Sulfide	BRL Aa	mg/L	2.0	0.45	1	*SM4500-S F	3/17/14 14:00	MES	P4C0324
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL	ug/L	0.050	0.0036	1	8081B	3/25/14 3:06	JMV	P4C0319
4,4'-DDE	BRL	ug/L	0.050	0.0038	1	8081B	3/25/14 3:06	JMV	P4C0319
4,4'-DDT	BRL	ug/L	0.050	0.021	1	8081B	3/25/14 3:06	JMV	P4C0319
Aldrin	BRL CCV	ug/L	0.050	0.010	1	8081B	3/25/14 3:06	JMV	P4C0319
alpha-BHC	BRL CCV	ug/L	0.050	0.0044	1	8081B	3/25/14 3:06	JMV	P4C0319
cis-Chlordane	BRL CCV	ug/L	0.050	0.0070	1	8081B	3/25/14 3:06	JMV	P4C0319
beta-BHC	BRL CCV	ug/L	0.050	0.0066	1	8081B	3/25/14 3:06	JMV	P4C0319
Chlordane	BRL	ug/L	0.50	0.14	1	8081B	3/25/14 3:06	JMV	P4C0319
delta-BHC	BRL CCV	ug/L	0.050	0.0033	1	8081B	3/25/14 3:06	JMV	P4C0319
Dieldrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 3:06	JMV	P4C0319
Endosulfan I	BRL CCV	ug/L	0.050	0.0084	1	8081B	3/25/14 3:06	JMV	P4C0319
Endosulfan II	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 3:06	JMV	P4C0319
Endosulfan Sulfate	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 3:06	JMV	P4C0319
ˈn	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 3:06	JMV	P4C0319
ɔ Aldehyde	BRL CCV	ug/L	0.050	0.0053	1	8081B	3/25/14 3:06	JMV	P4C0319
Endrin Ketone	BRL	ug/L	0.050	0.0043	1	8081B	3/25/14 3:06	JMV	P4C0319
gamma-BHC	BRL	ug/L	0.050	0.0049	1	8081B	3/25/14 3:06	JMV	P4C0319
trans-Chlordane	BRL CCV	ug/L	0.050	0.0060	1	8081B	3/25/14 3:06	JMV	P4C0319
Heptachlor	BRL	ug/L	0.050	0.0077	1	8081B	3/25/14 3:06	JMV	P4C0319
Heptachlor Epoxide	BRL CCV	ug/L	0.050	0.0046	1	8081B	3/25/14 3:06	JMV	P4C0319
Methoxychlor	BRL	ug/L	0.050	0.0087	1	8081B	3/25/14 3:06	JMV	P4C0319
Toxaphene	BRL	ug/L	0.50	0.15	1	8081B	3/25/14 3:06	JMV	P4C0319

Surrogate	Recovery	Control Limits
Decachlorobiphenyl	*135 %*	*13-186*
Tetrachloro-m-xylene	*92 %*	*40-134*

Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1221	BRL	ug/L	1.0	0.11	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1232	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1242	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1248	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1254	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 12:27	JMV	P4C0312
Aroclor 1260	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 12:27	JMV	P4C0312

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*90 %*	*30-161*
Decachlorobiphenyl	*79 %*	*32-178*

Semivolatile Organic Compounds by GC/MS									
ˈ ˈ 4,5-Tetrachlorobenzene	BRL	ug/L	11	2.1	1	8270D	3/26/14 12:24	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:17	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
1,3,5-Trinitrobenzene	BRL	ug/L	11	2.9	1	8270D	3/26/14 12:24	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
1,3-Dinitrobenzene	BRL	ug/L	11	1.8	1	8270D	3/26/14 12:24	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	11	2.3	1	8270D	3/19/14 16:17	KC	P4C0329
1,4-Naphthoquinone	BRL	ug/L	11	2.2	1	8270D	3/26/14 12:24	KC	P4C0329
1,4-Phenylenediamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 12:24	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:17	KC	P4C0329
1-Naphthylamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 12:24	KC	P4C0329
2,3,4,6-Tetrachlorophenol	BRL	ug/L	11	2.0	1	8270D	3/26/14 12:24	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:17	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:17	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:17	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:17	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	11	1.1	1	8270D	3/19/14 16:17	KC	P4C0329
2,6-Dichlorophenol	BRL	ug/L	11	3.6	1	8270D	3/26/14 12:24	KC	P4C0329
2,6-Dinitrotoluene	BRL	ug/L	11	1.8	1	8270D	3/19/14 16:17	KC	P4C0329
2-Acetylaminofluorene	BRL	ug/L	11	2.5	1	8270D	3/26/14 12:24	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
2-Chlorophenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:17	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	11	3.0	1	8270D	3/19/14 16:17	KC	P4C0329
2-Methylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:17	KC	P4C0329
2-Naphthylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329
2-Nitroaniline	BRL	ug/L	11	2.2	1	8270D	3/19/14 16:17	KC	P4C0329
2-Nitrophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:17	KC	P4C0329
2-Picoline	BRL	ug/L	11	2.3	1	8270D	3/26/14 12:24	KC	P4C0329
3,3'-Dimethylbenzidine	BRL	ug/L	11	0.91	1	8270D	3/26/14 12:24	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.1	1	8270D	3/19/14 16:17	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:17	KC	P4C0329
3-Methylcholanthrene	BRL	ug/L	11	1.8	1	8270D	3/26/14 12:24	KC	P4C0329
3-Nitroaniline	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:17	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	3.0	1	8270D	3/19/14 16:17	KC	P4C0329
4-Aminobiphenyl	BRL	ug/L	11	0.94	1	8270D	3/26/14 12:24	KC	P4C0329
4-Bromophenyl phenyl ether	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
4-Chloroaniline	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:17	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:17	KC	P4C0329
4-Nitroaniline	BRL	ug/L	11	1.0	1	8270D	3/19/14 16:17	KC	P4C0329
4-Nitrophenol	BRL	ug/L	11	2.9	1	8270D	3/19/14 16:17	KC	P4C0329
4-Nitroquinoline-n-oxide	BRL	ug/L	11	1.6	1	8270D	3/26/14 12:24	KC	P4C0329
5-Nitro-o-toluidine	BRL	ug/L	11	1.0	1	8270D	3/26/14 12:24	KC	P4C0329

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'utions-IES, Inc.
ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
7,12-Dimethylbenz(a)anthracene	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:24	KC	P4C0329
a,a-Dimethylphenethylamine	BRL	ug/L	11	4.9	1	8270D	3/26/14 12:24	KC	P4C0329
Acenaphthene	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:17	KC	P4C0329
Acenaphthylene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:17	KC	P4C0329
Acetophenone	BRL	ug/L	11	1.4	1	8270D	3/19/14 16:17	KC	P4C0329
Aniline	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:17	KC	P4C0329
Anthracene	BRL	ug/L	11	1.4	1	8270D	3/19/14 16:17	KC	P4C0329
Aramite	BRL	ug/L	11	2.1	1	8270D	3/26/14 12:24	KC	P4C0329
Azobenzene	BRL	ug/L	11	2.0	1	8270D	3/26/14 12:24	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	11	1.1	1	8270D	3/19/14 16:17	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	11	1.2	1	8270D	3/19/14 16:17	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:17	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:17	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	11	1.2	1	8270D	3/19/14 16:17	KC	P4C0329
Benzoic Acid	BRL	ug/L	110	56	1	8270D	3/19/14 16:17	KC	P4C0329
Benzyl alcohol	BRL	ug/L	11	2.3	1	8270D	3/19/14 16:17	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:17	KC	P4C0329
Bi-(2-Chloroethyl)ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:17	KC	P4C0329
·chloroisopropyl)ether	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
..(2-Ethylhexyl)phthalate	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	11	1.7	1	8270D	3/19/14 16:17	KC	P4C0329
Chlorobenzilate	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:24	KC	P4C0329
Chrysene	BRL	ug/L	11	1.3	1	8270D	3/19/14 16:17	KC	P4C0329
Diallate	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
Dibenzofuran	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:17	KC	P4C0329
Diethyl phthalate	BRL	ug/L	11	1.6	1	8270D	3/19/14 16:17	KC	P4C0329
Dimethoate	BRL	ug/L	11	2.1	1	8270D	3/26/14 12:24	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	11	1.9	1	8270D	3/19/14 16:17	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:17	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:17	KC	P4C0329
Dinoseb	BRL	ug/L	11	2.3	1	8270D	3/26/14 12:24	KC	P4C0329
Diphenylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329
Disulfoton	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:24	KC	P4C0329
Ethyl Methanesulfonate	BRL	ug/L	11	2.7	1	8270D	3/26/14 12:24	KC	P4C0329
Famphur	BRL A	ug/L	11	5.8	1	8270D	3/26/14 12:24	KC	P4C0329
Fluoranthene	BRL	ug/L	11	1.1	1	8270D	3/19/14 16:17	KC	P4C0329
Fluorene	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:17	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	11	1.6	1	8270D	3/19/14 16:17	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:17	KC	P4C0329
Hexachloroethane	BRL	ug/L	11	2.2	1	8270D	3/19/14 16:17	KC	P4C0329
Hexachlorophene	BRL	ug/L	1100	560	1	8270D	3/26/14 12:24	KC	P4C0329

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Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachloropropene	BRL	ug/L	11	3.2	1	8270D	3/26/14 12:24	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	1.8	1	8270D	3/19/14 16:17	KC	P4C0329
Isodrin	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:24	KC	P4C0329
Isophorone	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:17	KC	P4C0329
Isosafrole	BRL	ug/L	11	3.1	1	8270D	3/26/14 12:24	KC	P4C0329
Kepone	BRL	ug/L	11	5.7	1	8270D	3/26/14 12:24	KC	P4C0329
Methapyrilene	BRL	ug/L	56	13	1	8270D	3/26/14 12:24	KC	P4C0329
Methyl Methanesulfonate	BRL	ug/L	11	5.6	1	8270D	3/26/14 12:24	KC	P4C0329
Methyl parathion	BRL	ug/L	11	1.9	1	8270D	3/26/14 12:24	KC	P4C0329
Naphthalene	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
Nitrobenzene	BRL	ug/L	11	2.2	1	8270D	3/19/14 16:17	KC	P4C0329
N-Nitrosodibutylamine	BRL	ug/L	11	3.5	1	8270D	3/26/14 12:24	KC	P4C0329
N-Nitrosodiethylamine	BRL	ug/L	11	2.8	1	8270D	3/26/14 12:24	KC	P4C0329
N-Nitrosodimethylamine	BRL	ug/L	11	3.6	1	8270D	3/19/14 16:17	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:17	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	11	1.7	1	8270D	3/19/14 16:17	KC	P4C0329
N-Nitrosomethylethylamine	BRL	ug/L	11	2.6	1	8270D	3/26/14 12:24	KC	P4C0329
N-Nitrosomorpholine	BRL	ug/L	11	3.2	1	8270D	3/19/14 16:17	KC	P4C0329
N-Nitrosopiperidine	BRL	ug/L	11	3.2	1	8270D	3/26/14 12:24	KC	P4C0329
N-Nitrosopyrrolidine	BRL	ug/L	11	3.0	1	8270D	3/26/14 12:24	KC	P4C0329
O,O,O-Triethyl phosphorothioate	BRL	ug/L	11	2.9	1	8270D	3/26/14 12:24	KC	P4C0329
o-Toluidine	BRL	ug/L	11	2.4	1	8270D	3/26/14 12:24	KC	P4C0329
Parathion	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329
p-Dimethylaminoazobenzene	BRL	ug/L	11	1.0	1	8270D	3/26/14 12:24	KC	P4C0329
Pentachlorobenzene	BRL	ug/L	11	3.1	1	8270D	3/26/14 12:24	KC	P4C0329
Pentachloroethane	BRL	ug/L	11	2.3	1	8270D	3/26/14 12:24	KC	P4C0329
Pentachloronitrobenzene	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:24	KC	P4C0329
Pentachlorophenol	BRL	ug/L	11	1.9	1	8270D	3/19/14 16:17	KC	P4C0329
Phenacetin	BRL	ug/L	11	1.7	1	8270D	3/26/14 12:24	KC	P4C0329
Phenanthrene	BRL	ug/L	11	1.3	1	8270D	3/19/14 16:17	KC	P4C0329
Phenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:17	KC	P4C0329
Phorate	BRL	ug/L	11	1.3	1	8270D	3/26/14 12:24	KC	P4C0329
Pronamide	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:24	KC	P4C0329
Pyrene	BRL	ug/L	11	1.6	1	8270D	3/19/14 16:17	KC	P4C0329
Pyridine	BRL	ug/L	11	3.7	1	8270D	3/19/14 16:17	KC	P4C0329
Safrole	BRL	ug/L	11	3.4	1	8270D	3/26/14 12:24	KC	P4C0329
Sulfotepp	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329
Thionazin	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:24	KC	P4C0329

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*111 %*	*49-109*	*SR*
2-Fluorobiphenyl	*92 %*	*55-96*	
2-Fluorophenol	*56 %*	*27-74*	
Nitrobenzene-d5	*84 %*	*53-99*	

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

'utions-IES, Inc.
.ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Phenol-d5				*33 %*	*11-52*	
			Terphenyl-d14				*104 %*	*42-133*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	3/17/14 15:20	MEH	P4C0305
Antimony	BRL	mg/L	0.010	0.0011	1	*6010C	3/26/14 17:48	BGM	P4C0300
Arsenic	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 17:48	BGM	P4C0300
Barium	**0.042**	**mg/L**	**0.010**	**0.0031**	**1**	***6010C**	**3/26/14 17:48**	**BGM**	**P4C0300**
Beryllium	**0.0070**	**mg/L**	**0.0020**	**0.00012**	**1**	***6010C**	**3/28/14 14:44**	**BGM**	**P4C0300**
Cadmium	BRL	mg/L	0.0010	0.000039	1	*6010C	3/26/14 17:48	BGM	P4C0300
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010C	3/26/14 17:48	BGM	P4C0300
Cobalt	**0.058**	**mg/L**	**0.0050**	**0.00015**	**1**	***6010C**	**3/26/14 17:48**	**BGM**	**P4C0300**
Copper	BRL	mg/L	0.010	0.0010	1	*6010C	3/26/14 17:48	BGM	P4C0300
Lead	BRL	mg/L	0.0050	0.00039	1	*6010C	3/26/14 17:48	BGM	P4C0300
Nickel	BRL	mg/L	0.010	0.00024	1	*6010C	3/26/14 17:48	BGM	P4C0300
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	3/26/14 17:48	BGM	P4C0300
Silver	BRL	mg/L	0.0050	0.00012	1	*6010C	3/26/14 17:48	BGM	P4C0300
Thallium	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 17:48	BGM	P4C0300
	BRL	mg/L	0.050	0.00076	1	*6010C	3/26/14 17:48	BGM	P4C0300
;ium	BRL	mg/L	0.0050	0.00017	1	*6010C	3/26/14 17:48	BGM	P4C0300
Zinc	**0.037**	**mg/L**	**0.030**	**0.0025**	**1**	***6010C**	**3/26/14 17:48**	**BGM**	**P4C0300**
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/15/14 23:33	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/15/14 23:33	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/15/14 23:33	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:33	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/15/14 23:33	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/15/14 23:33	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/15/14 23:33	VHL	P4C0314
ichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/15/14 23:33	VHL	P4C0314

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/15/14 23:33	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/15/14 23:33	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/15/14 23:33	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/15/14 23:33	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/15/14 23:33	VHL	P4C0314
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/15/14 23:33	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/15/14 23:33	VHL	P4C0314
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/15/14 23:33	VHL	P4C0314
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/15/14 23:33	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:33	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/15/14 23:33	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/15/14 23:33	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/15/14 23:33	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/15/14 23:33	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/15/14 23:33	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/15/14 23:33	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:33	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/15/14 23:33	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/15/14 23:33	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/15/14 23:33	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/15/14 23:33	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/15/14 23:33	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:33	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/15/14 23:33	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/15/14 23:33	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/15/14 23:33	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/15/14 23:33	VHL	P4C0314
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/15/14 23:33	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/15/14 23:33	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/15/14 23:33	VHL	P4C0314
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/15/14 23:33	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/15/14 23:33	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/15/14 23:33	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/15/14 23:33	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/15/14 23:33	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/15/14 23:33	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/15/14 23:33	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/15/14 23:33	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/15/14 23:33	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/15/14 23:33	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/15/14 23:33	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/15/14 23:33	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/15/14 23:33	VHL	P4C0314

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

'utions-IES, Inc.
.ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-9S
Prism Sample ID: 4030246-01
Prism Work Order: 4030246
Time Collected: 03/11/14 11:15
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/15/14 23:33	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/15/14 23:33	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/15/14 23:33	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/15/14 23:33	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/15/14 23:33	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*107 %*	*77-123*

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Cyanide	BRL	mg/L	0.0050	0.0018	1	*9014	3/21/14 10:28	CLB	P4C0410
Sulfide	BRL Aa	mg/L	2.0	0.45	1	*SM4500-S F	3/17/14 14:00	MES	P4C0324
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL	ug/L	0.050	0.0036	1	8081B	3/25/14 3:49	JMV	P4C0319
4,4'-DDE	BRL	ug/L	0.050	0.0038	1	8081B	3/25/14 3:49	JMV	P4C0319
4,4'-DDT	BRL	ug/L	0.050	0.021	1	8081B	3/25/14 3:49	JMV	P4C0319
Aldrin	BRL CCV	ug/L	0.050	0.010	1	8081B	3/25/14 3:49	JMV	P4C0319
alpha-BHC	BRL CCV	ug/L	0.050	0.0044	1	8081B	3/25/14 3:49	JMV	P4C0319
cis-Chlordane	BRL CCV	ug/L	0.050	0.0070	1	8081B	3/25/14 3:49	JMV	P4C0319
beta-BHC	BRL CCV	ug/L	0.050	0.0066	1	8081B	3/25/14 3:49	JMV	P4C0319
Chlordane	BRL	ug/L	0.50	0.14	1	8081B	3/25/14 3:49	JMV	P4C0319
delta-BHC	BRL CCV	ug/L	0.050	0.0033	1	8081B	3/25/14 3:49	JMV	P4C0319
Dieldrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 3:49	JMV	P4C0319
Endosulfan I	BRL CCV	ug/L	0.050	0.0084	1	8081B	3/25/14 3:49	JMV	P4C0319
Endosulfan II	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 3:49	JMV	P4C0319
Endosulfan Sulfate	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 3:49	JMV	P4C0319
Endrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 3:49	JMV	P4C0319
Endrin Aldehyde	BRL CCV	ug/L	0.050	0.0053	1	8081B	3/25/14 3:49	JMV	P4C0319
Endrin Ketone	BRL	ug/L	0.050	0.0043	1	8081B	3/25/14 3:49	JMV	P4C0319
gamma-BHC	BRL	ug/L	0.050	0.0049	1	8081B	3/25/14 3:49	JMV	P4C0319
trans-Chlordane	BRL CCV	ug/L	0.050	0.0060	1	8081B	3/25/14 3:49	JMV	P4C0319
Heptachlor	BRL	ug/L	0.050	0.0077	1	8081B	3/25/14 3:49	JMV	P4C0319
Heptachlor Epoxide	BRL CCV	ug/L	0.050	0.0046	1	8081B	3/25/14 3:49	JMV	P4C0319
Methoxychlor	BRL	ug/L	0.050	0.0087	1	8081B	3/25/14 3:49	JMV	P4C0319
Toxaphene	BRL	ug/L	0.50	0.15	1	8081B	3/25/14 3:49	JMV	P4C0319

Surrogate	Recovery	Control Limits
Decachlorobiphenyl	*134 %*	*13-186*
Tetrachloro-m-xylene	*94 %*	*40-134*

Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1221	BRL	ug/L	1.0	0.11	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1232	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1242	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1248	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1254	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 14:24	JMV	P4C0312
Aroclor 1260	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 14:24	JMV	P4C0312

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*89 %*	*30-161*
Decachlorobiphenyl	*68 %*	*32-178*

Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/26/14 12:46	KC	P4C0329

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Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
1,3,5-Trinitrobenzene	BRL	ug/L	11	2.8	1	8270D	3/26/14 12:46	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
1,3-Dinitrobenzene	BRL	ug/L	11	1.8	1	8270D	3/26/14 12:46	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	11	2.2	1	8270D	3/19/14 16:39	KC	P4C0329
1,4-Naphthoquinone	BRL	ug/L	11	2.2	1	8270D	3/26/14 12:46	KC	P4C0329
1,4-Phenylenediamine	BRL	ug/L	11	1.5	1	8270D	3/26/14 12:46	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
1-Naphthylamine	BRL	ug/L	11	1.5	1	8270D	3/26/14 12:46	KC	P4C0329
2,3,4,6-Tetrachlorophenol	BRL	ug/L	11	1.9	1	8270D	3/26/14 12:46	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:39	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:39	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	11	1.0	1	8270D	3/19/14 16:39	KC	P4C0329
[illegible]-Dichlorophenol	BRL	ug/L	11	3.5	1	8270D	3/26/14 12:46	KC	P4C0329
[illegible]initrotoluene	BRL	ug/L	11	1.8	1	8270D	3/19/14 16:39	KC	P4C0329
2-[illegible]cetylaminofluorene	BRL	ug/L	11	2.5	1	8270D	3/26/14 12:46	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
2-Chlorophenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:39	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	11	2.9	1	8270D	3/19/14 16:39	KC	P4C0329
2-Methylphenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:39	KC	P4C0329
2-Naphthylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:46	KC	P4C0329
2-Nitroaniline	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:39	KC	P4C0329
2-Nitrophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
2-Picoline	BRL	ug/L	11	2.2	1	8270D	3/26/14 12:46	KC	P4C0329
3,3'-Dimethylbenzidine	BRL	ug/L	11	0.89	1	8270D	3/26/14 12:46	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.1	1	8270D	3/19/14 16:39	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:39	KC	P4C0329
3-Methylcholanthrene	BRL	ug/L	11	1.7	1	8270D	3/26/14 12:46	KC	P4C0329
3-Nitroaniline	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:39	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	2.9	1	8270D	3/19/14 16:39	KC	P4C0329
4-Aminobiphenyl	BRL	ug/L	11	0.92	1	8270D	3/26/14 12:46	KC	P4C0329
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.9	1	8270D	3/19/14 16:39	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
4-Chloroaniline	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:39	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
4-Nitroaniline	BRL	ug/L	11	1.0	1	8270D	3/19/14 16:39	KC	P4C0329
4-Nitrophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 16:39	KC	P4C0329
4-Nitroquinoline-n-oxide	BRL	ug/L	11	1.5	1	8270D	3/26/14 12:46	KC	P4C0329
5-Nitro-o-toluidine	BRL	ug/L	11	1.0	1	8270D	3/26/14 12:46	KC	P4C0329

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
7,12-Dimethylbenz(a)anthracene	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:46	KC	P4C0329
a,a-Dimethylphenethylamine	BRL	ug/L	11	4.7	1	8270D	3/26/14 12:46	KC	P4C0329
Acenaphthene	BRL	ug/L	11	2.3	1	8270D	3/19/14 16:39	KC	P4C0329
Acenaphthylene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
Acetophenone	BRL	ug/L	11	1.4	1	8270D	3/19/14 16:39	KC	P4C0329
Aniline	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
Anthracene	BRL	ug/L	11	1.4	1	8270D	3/19/14 16:39	KC	P4C0329
Aramite	BRL	ug/L	11	2.0	1	8270D	3/26/14 12:46	KC	P4C0329
Azobenzene	BRL	ug/L	11	2.0	1	8270D	3/26/14 12:46	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	11	1.0	1	8270D	3/19/14 16:39	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	11	1.2	1	8270D	3/19/14 16:39	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:39	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:39	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	11	1.2	1	8270D	3/19/14 16:39	KC	P4C0329
Benzoic Acid	BRL	ug/L	110	55	1	8270D	3/19/14 16:39	KC	P4C0329
Benzyl alcohol	BRL	ug/L	11	2.3	1	8270D	3/19/14 16:39	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:39	KC	P4C0329
Bis(2-Chloroethyl)ether	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	2.6	1	8270D	3/19/14 16:39	KC	P4C0329
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.9	1	8270D	3/19/14 16:39	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	11	1.7	1	8270D	3/19/14 16:39	KC	P4C0329
Chlorobenzilate	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:46	KC	P4C0329
Chrysene	BRL	ug/L	11	1.3	1	8270D	3/19/14 16:39	KC	P4C0329
Diallate	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:46	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.9	1	8270D	3/19/14 16:39	KC	P4C0329
Dibenzofuran	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:39	KC	P4C0329
Diethyl phthalate	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:39	KC	P4C0329
Dimethoate	BRL	ug/L	11	2.1	1	8270D	3/26/14 12:46	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	11	1.8	1	8270D	3/19/14 16:39	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:39	KC	P4C0329
Dinoseb	BRL	ug/L	11	2.2	1	8270D	3/26/14 12:46	KC	P4C0329
Diphenylamine	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:46	KC	P4C0329
Disulfoton	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:46	KC	P4C0329
Ethyl Methanesulfonate	BRL	ug/L	11	2.7	1	8270D	3/26/14 12:46	KC	P4C0329
Famphur	BRL A	ug/L	11	5.6	1	8270D	3/26/14 12:46	KC	P4C0329
Fluoranthene	BRL	ug/L	11	1.0	1	8270D	3/19/14 16:39	KC	P4C0329
Fluorene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:39	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	11	2.0	1	8270D	3/19/14 16:39	KC	P4C0329
Hexachloroethane	BRL	ug/L	11	2.1	1	8270D	3/19/14 16:39	KC	P4C0329
Hexachlorophene	BRL	ug/L	1100	550	1	8270D	3/26/14 12:46	KC	P4C0329

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`utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachloropropene	BRL	ug/L	11	3.2	1	8270D	3/26/14 12:46	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	1.7	1	8270D	3/19/14 16:39	KC	P4C0329
Isodrin	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:46	KC	P4C0329
Isophorone	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
Isosafrole	BRL	ug/L	11	3.1	1	8270D	3/26/14 12:46	KC	P4C0329
Kepone	BRL	ug/L	11	5.6	1	8270D	3/26/14 12:46	KC	P4C0329
Methapyrilene	BRL	ug/L	55	13	1	8270D	3/26/14 12:46	KC	P4C0329
Methyl Methanesulfonate	BRL	ug/L	11	5.5	1	8270D	3/26/14 12:46	KC	P4C0329
Methyl parathion	BRL	ug/L	11	1.8	1	8270D	3/26/14 12:46	KC	P4C0329
Naphthalene	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
Nitrobenzene	BRL	ug/L	11	2.2	1	8270D	3/19/14 16:39	KC	P4C0329
N-Nitrosodibutylamine	BRL	ug/L	11	3.4	1	8270D	3/26/14 12:46	KC	P4C0329
N-Nitrosodiethylamine	BRL	ug/L	11	2.7	1	8270D	3/19/14 16:39	KC	P4C0329
N-Nitrosodimethylamine	BRL	ug/L	11	3.5	1	8270D	3/19/14 16:39	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.5	1	8270D	3/19/14 16:39	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	11	1.7	1	8270D	3/19/14 16:39	KC	P4C0329
N-Nitrosomethylethylamine	BRL	ug/L	11	2.5	1	8270D	3/26/14 12:46	KC	P4C0329
''trosomorpholine	BRL	ug/L	11	3.2	1	8270D	3/19/14 16:39	KC	P4C0329
osopiperidine	BRL	ug/L	11	3.2	1	8270D	3/26/14 12:46	KC	P4C0329
N-Nitrosopyrrolidine	BRL	ug/L	11	2.9	1	8270D	3/26/14 12:46	KC	P4C0329
O,O,O-Triethyl phosphorothioate	BRL	ug/L	11	2.8	1	8270D	3/26/14 12:46	KC	P4C0329
o-Toluidine	BRL	ug/L	11	2.4	1	8270D	3/26/14 12:46	KC	P4C0329
Parathion	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:46	KC	P4C0329
p-Dimethylaminoazobenzene	BRL	ug/L	11	1.0	1	8270D	3/26/14 12:46	KC	P4C0329
Pentachlorobenzene	BRL	ug/L	11	3.1	1	8270D	3/26/14 12:46	KC	P4C0329
Pentachloroethane	BRL	ug/L	11	2.3	1	8270D	3/26/14 12:46	KC	P4C0329
Pentachloronitrobenzene	BRL	ug/L	11	1.4	1	8270D	3/26/14 12:46	KC	P4C0329
Pentachlorophenol	BRL	ug/L	11	1.8	1	8270D	3/19/14 16:39	KC	P4C0329
Phenacetin	BRL	ug/L	11	1.7	1	8270D	3/26/14 12:46	KC	P4C0329
Phenanthrene	BRL	ug/L	11	1.3	1	8270D	3/19/14 16:39	KC	P4C0329
Phenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 16:39	KC	P4C0329
Phorate	BRL	ug/L	11	1.3	1	8270D	3/26/14 12:46	KC	P4C0329
Pronamide	BRL	ug/L	11	1.1	1	8270D	3/26/14 12:46	KC	P4C0329
Pyrene	BRL	ug/L	11	1.5	1	8270D	3/19/14 16:39	KC	P4C0329
Pyridine	BRL	ug/L	11	3.6	1	8270D	3/19/14 16:39	KC	P4C0329
Safrole	BRL	ug/L	11	3.3	1	8270D	3/26/14 12:46	KC	P4C0329
Sulfotepp	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:46	KC	P4C0329
Thionazin	BRL	ug/L	11	1.2	1	8270D	3/26/14 12:46	KC	P4C0329

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*103 %*	*49-109*
2-Fluorobiphenyl	*85 %*	*55-96*
2-Fluorophenol	*46 %*	*27-74*
Nitrobenzene-d5	*77 %*	*53-99*

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Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Phenol-d5			28 %		11-52	
			Terphenyl-d14			104 %		42-133	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	3/17/14 16:37	MEH	P4C0305
Antimony	BRL	mg/L	0.010	0.0011	1	*6010C	3/26/14 18:14	BGM	P4C0300
Arsenic	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:14	BGM	P4C0300
Barium	**0.082**	**mg/L**	**0.010**	**0.0031**	**1**	***6010C**	**3/26/14 18:14**	**BGM**	**P4C0300**
Beryllium	BRL	mg/L	0.0020	0.00012	1	*6010C	3/26/14 18:14	BGM	P4C0300
Cadmium	BRL	mg/L	0.0010	0.000039	1	*6010C	3/26/14 18:14	BGM	P4C0300
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010C	3/26/14 18:14	BGM	P4C0300
Cobalt	**0.020**	**mg/L**	**0.0050**	**0.00015**	**1**	***6010C**	**3/26/14 18:14**	**BGM**	**P4C0300**
Copper	BRL	mg/L	0.010	0.0010	1	*6010C	3/26/14 18:14	BGM	P4C0300
Lead	BRL	mg/L	0.0050	0.00039	1	*6010C	3/26/14 18:14	BGM	P4C0300
Nickel	BRL	mg/L	0.010	0.00024	1	*6010C	3/26/14 18:14	BGM	P4C0300
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	3/26/14 18:14	BGM	P4C0300
Silver	BRL	mg/L	0.0050	0.00012	1	*6010C	3/26/14 18:14	BGM	P4C0300
Thallium	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:14	BGM	P4C0300
Tin	BRL	mg/L	0.050	0.00076	1	*6010C	3/26/14 18:14	BGM	P4C0300
Vanadium	BRL	mg/L	0.0050	0.00017	1	*6010C	3/26/14 18:14	BGM	P4C0300
Zinc	BRL	mg/L	0.030	0.0025	1	*6010C	3/26/14 18:14	BGM	P4C0300
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/15/14 23:58	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/15/14 23:58	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/15/14 23:58	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:58	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/15/14 23:58	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/15/14 23:58	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/15/14 23:58	VHL	P4C0314
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/15/14 23:58	VHL	P4C0314

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Laboratory Report

04/10/2014

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Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/15/14 23:58	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/15/14 23:58	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/15/14 23:58	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/15/14 23:58	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/15/14 23:58	VHL	P4C0314
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/15/14 23:58	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/15/14 23:58	VHL	P4C0314
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/15/14 23:58	VHL	P4C0314
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/15/14 23:58	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:58	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/15/14 23:58	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/15/14 23:58	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/15/14 23:58	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/15/14 23:58	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/15/14 23:58	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/15/14 23:58	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:58	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/15/14 23:58	VHL	P4C0314
omethane	BRL	ug/L	0.50	0.11	1	8260B	3/15/14 23:58	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/15/14 23:58	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/15/14 23:58	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/15/14 23:58	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/15/14 23:58	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/15/14 23:58	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/15/14 23:58	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/15/14 23:58	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/15/14 23:58	VHL	P4C0314
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/15/14 23:58	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/15/14 23:58	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/15/14 23:58	VHL	P4C0314
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/15/14 23:58	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/15/14 23:58	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/15/14 23:58	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/15/14 23:58	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/15/14 23:58	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/15/14 23:58	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/15/14 23:58	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/15/14 23:58	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/15/14 23:58	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/15/14 23:58	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/15/14 23:58	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/15/14 23:58	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/15/14 23:58	VHL	P4C0314

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10S
Prism Sample ID: 4030246-02
Prism Work Order: 4030246
Time Collected: 03/11/14 12:35
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/15/14 23:58	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/15/14 23:58	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/15/14 23:58	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/15/14 23:58	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/15/14 23:58	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*108 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

`utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Field Blank
Prism Sample ID: 4030246-03
Prism Work Order: 4030246
Time Collected: 03/11/14 13:30
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	3/19/14 17:00	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:00	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:00	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	3/19/14 17:00	KC	P4C0329
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:00	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:00	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	3/19/14 17:00	KC	P4C0329
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
-oaniline	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:00	KC	P4C0329
ophenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:00	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	3/19/14 17:00	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	3/19/14 17:00	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	3/19/14 17:00	KC	P4C0329
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:00	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	3/19/14 17:00	KC	P4C0329
4-Nitrophenol	BRL	ug/L	10	2.6	1	8270D	3/19/14 17:00	KC	P4C0329
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:00	KC	P4C0329
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
Aniline	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
Anthracene	BRL	ug/L	10	1.2	1	8270D	3/19/14 17:00	KC	P4C0329
Azobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	3/19/14 17:00	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	3/19/14 17:00	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:00	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:00	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	3/19/14 17:00	KC	P4C0329
Benzoic Acid	BRL	ug/L	100	50	1	8270D	3/19/14 17:00	KC	P4C0329
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:00	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
?-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:00	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Field Blank
Prism Sample ID: 4030246-03
Prism Work Order: 4030246
Time Collected: 03/11/14 13:30
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	3/19/14 17:00	KC	P4C0329
Chrysene	BRL	ug/L	10	1.2	1	8270D	3/19/14 17:00	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:00	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:00	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:00	KC	P4C0329
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	3/19/14 17:00	KC	P4C0329
Fluorene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:00	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:00	KC	P4C0329
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:00	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:00	KC	P4C0329
Isophorone	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:00	KC	P4C0329
Naphthalene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	3/19/14 17:00	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:00	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:00	KC	P4C0329
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:00	KC	P4C0329
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	3/19/14 17:00	KC	P4C0329
Phenol	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:00	KC	P4C0329
Pyrene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:00	KC	P4C0329

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*73 %*	*49-109*
2-Fluorobiphenyl	*85 %*	*55-96*
2-Fluorophenol	*44 %*	*27-74*
Nitrobenzene-d5	*80 %*	*53-99*
Phenol-d5	*28 %*	*11-52*
Terphenyl-d14	*97 %*	*42-133*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 0:24	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 0:24	VHL	P4C0314

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'utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Field Blank
Prism Sample ID: 4030246-03
Prism Work Order: 4030246
Time Collected: 03/11/14 13:30
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 0:24	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:24	VHL	P4C0314
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 0:24	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 0:24	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 0:24	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 0:24	VHL	P4C0314
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 0:24	VHL	P4C0314
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 0:24	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 0:24	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 0:24	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 0:24	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/16/14 0:24	VHL	P4C0314
·lein	BRL	ug/L	20	1.1	1	8260B	3/16/14 0:24	VHL	P4C0314
onitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 0:24	VHL	P4C0314
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 0:24	VHL	P4C0314
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 0:24	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:24	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 0:24	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 0:24	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 0:24	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 0:24	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 0:24	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 0:24	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:24	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 0:24	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 0:24	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 0:24	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 0:24	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 0:24	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:24	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 0:24	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/16/14 0:24	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 0:24	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 0:24	VHL	P4C0314
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 0:24	VHL	P4C0314
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 0:24	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 0:24	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/16/14 0:24	VHL	P4C0314

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Field Blank
Prism Sample ID: 4030246-03
Prism Work Order: 4030246
Time Collected: 03/11/14 13:30
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 0:24	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/16/14 0:24	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 0:24	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/16/14 0:24	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 0:24	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 0:24	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/16/14 0:24	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 0:24	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 0:24	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 0:24	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 0:24	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/16/14 0:24	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 0:24	VHL	P4C0314
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 0:24	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 0:24	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 0:24	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 0:24	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 0:24	VHL	P4C0314
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	3/16/14 0:24	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*109 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10D
Prism Sample ID: 4030246-04
Prism Work Order: 4030246
Time Collected: 03/11/14 13:55
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:22	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	3/19/14 17:22	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:22	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:22	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:22	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	10	0.97	1	8270D	3/19/14 17:22	KC	P4C0329
2,6-Dinitrotoluene	BRL	ug/L	10	1.7	1	8270D	3/19/14 17:22	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
2-Chlorophenol	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	10	2.7	1	8270D	3/19/14 17:22	KC	P4C0329
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
·oaniline	BRL	ug/L	10	2.0	1	8270D	3/19/14 17:22	KC	P4C0329
ophenol	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:22	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.98	1	8270D	3/19/14 17:22	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
3-Nitroaniline	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:22	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	3/19/14 17:22	KC	P4C0329
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
4-Chloroaniline	BRL	ug/L	10	2.6	1	8270D	3/19/14 17:22	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:22	KC	P4C0329
4-Nitroaniline	BRL	ug/L	10	0.93	1	8270D	3/19/14 17:22	KC	P4C0329
4-Nitrophenol	BRL	ug/L	10	2.6	1	8270D	3/19/14 17:22	KC	P4C0329
Acenaphthene	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
Acenaphthylene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
Aniline	**9.6 J**	**ug/L**	**10**	**2.3**	**1**	**8270D**	**3/19/14 17:22**	**KC**	**P4C0329**
Anthracene	BRL	ug/L	10	1.3	1	8270D	3/19/14 17:22	KC	P4C0329
Azobenzene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	10	0.97	1	8270D	3/19/14 17:22	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	3/19/14 17:22	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:22	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	3/19/14 17:22	KC	P4C0329
Benzoic Acid	BRL	ug/L	100	51	1	8270D	3/19/14 17:22	KC	P4C0329
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	3/19/14 17:22	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
·?-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:22	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10D
Prism Sample ID: 4030246-04
Prism Work Order: 4030246
Time Collected: 03/11/14 13:55
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:22	KC	P4C0329
Chrysene	BRL	ug/L	10	1.2	1	8270D	3/19/14 17:22	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:22	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	10	1.7	1	8270D	3/19/14 17:22	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:22	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:22	KC	P4C0329
Fluoranthene	BRL	ug/L	10	0.96	1	8270D	3/19/14 17:22	KC	P4C0329
Fluorene	BRL	ug/L	10	1.9	1	8270D	3/19/14 17:22	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:22	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	3/19/14 17:22	KC	P4C0329
Hexachloroethane	BRL	ug/L	10	2.0	1	8270D	3/19/14 17:22	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:22	KC	P4C0329
Isophorone	BRL	ug/L	10	2.5	1	8270D	3/19/14 17:22	KC	P4C0329
Naphthalene	BRL	ug/L	10	2.3	1	8270D	3/19/14 17:22	KC	P4C0329
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	3/19/14 17:22	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.4	1	8270D	3/19/14 17:22	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	3/19/14 17:22	KC	P4C0329
Pentachlorophenol	BRL	ug/L	10	1.7	1	8270D	3/19/14 17:22	KC	P4C0329
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	3/19/14 17:22	KC	P4C0329
Phenol	BRL	ug/L	10	2.2	1	8270D	3/19/14 17:22	KC	P4C0329
Pyrene	BRL	ug/L	10	1.4	1	8270D	3/19/14 17:22	KC	P4C0329

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*71 %*	*49-109*	
2-Fluorobiphenyl	*91 %*	*55-96*	
2-Fluorophenol	*24 %*	*27-74*	*SE*
Nitrobenzene-d5	*84 %*	*53-99*	
Phenol-d5	*24 %*	*11-52*	
Terphenyl-d14	*100 %*	*42-133*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 0:49	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 0:49	VHL	P4C0314

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`utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10D
Prism Sample ID: 4030246-04
Prism Work Order: 4030246
Time Collected: 03/11/14 13:55
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 0:49	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:49	VHL	P4C0314
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 0:49	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 0:49	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 0:49	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 0:49	VHL	P4C0314
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 0:49	VHL	P4C0314
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 0:49	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 0:49	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 0:49	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 0:49	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/16/14 0:49	VHL	P4C0314
›lein	BRL	ug/L	20	1.1	1	8260B	3/16/14 0:49	VHL	P4C0314
›nitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 0:49	VHL	P4C0314
Benzene	**32**	**ug/L**	**0.50**	**0.072**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 0:49	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:49	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 0:49	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 0:49	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 0:49	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 0:49	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 0:49	VHL	P4C0314
Chlorobenzene	**0.54**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:49	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 0:49	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 0:49	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 0:49	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 0:49	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 0:49	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 0:49	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 0:49	VHL	P4C0314
Ethylbenzene	**1.1**	**ug/L**	**0.50**	**0.067**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 0:49	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 0:49	VHL	P4C0314
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 0:49	VHL	P4C0314
m,p-Xylenes	**3.2**	**ug/L**	**1.0**	**0.081**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 0:49	VHL	P4C0314
›hyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/16/14 0:49	VHL	P4C0314

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Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-10D
Prism Sample ID: 4030246-04
Prism Work Order: 4030246
Time Collected: 03/11/14 13:55
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 0:49	VHL	P4C0314
Methylene Chloride	**1.5**	**ug/L**	**1.0**	**0.44**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 0:49	VHL	P4C0314
Naphthalene	**0.66 J**	**ug/L**	**1.0**	**0.098**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 0:49	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 0:49	VHL	P4C0314
o-Xylene	**0.89**	**ug/L**	**0.50**	**0.046**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 0:49	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 0:49	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 0:49	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 0:49	VHL	P4C0314
Toluene	**0.79**	**ug/L**	**0.50**	**0.042**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 0:49	VHL	P4C0314
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 0:49	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 0:49	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 0:49	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 0:49	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 0:49	VHL	P4C0314
Xylenes, total	**4.1**	**ug/L**	**3.0**	**0.13**	**1**	**8260B**	**3/16/14 0:49**	**VHL**	**P4C0314**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*108 %*	*77-123*

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

'utions-IES, Inc.
n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Cyanide	BRL	mg/L	0.0050	0.0018	1	*9014	3/21/14 10:28	CLB	P4C0410
Sulfide	BRL Aa	mg/L	2.0	0.45	1	*SM4500-S F	3/17/14 14:00	MES	P4C0324
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL	ug/L	0.050	0.0036	1	8081B	3/25/14 5:14	JMV	P4C0319
4,4'-DDE	BRL	ug/L	0.050	0.0038	1	8081B	3/25/14 5:14	JMV	P4C0319
4,4'-DDT	BRL	ug/L	0.050	0.021	1	8081B	3/25/14 5:14	JMV	P4C0319
Aldrin	BRL CCV	ug/L	0.050	0.010	1	8081B	3/25/14 5:14	JMV	P4C0319
alpha-BHC	BRL CCV	ug/L	0.050	0.0044	1	8081B	3/25/14 5:14	JMV	P4C0319
cis-Chlordane	BRL CCV	ug/L	0.050	0.0070	1	8081B	3/25/14 5:14	JMV	P4C0319
beta-BHC	BRL CCV	ug/L	0.050	0.0066	1	8081B	3/25/14 5:14	JMV	P4C0319
Chlordane	BRL	ug/L	0.50	0.14	1	8081B	3/25/14 5:14	JMV	P4C0319
delta-BHC	BRL CCV	ug/L	0.050	0.0033	1	8081B	3/25/14 5:14	JMV	P4C0319
Dieldrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 5:14	JMV	P4C0319
Endosulfan I	BRL CCV	ug/L	0.050	0.0084	1	8081B	3/25/14 5:14	JMV	P4C0319
Endosulfan II	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 5:14	JMV	P4C0319
Endosulfan Sulfate	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 5:14	JMV	P4C0319
n	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 5:14	JMV	P4C0319
n Aldehyde	BRL CCV	ug/L	0.050	0.0053	1	8081B	3/25/14 5:14	JMV	P4C0319
Endrin Ketone	BRL	ug/L	0.050	0.0043	1	8081B	3/25/14 5:14	JMV	P4C0319
gamma-BHC	BRL	ug/L	0.050	0.0049	1	8081B	3/25/14 5:14	JMV	P4C0319
trans-Chlordane	BRL CCV	ug/L	0.050	0.0060	1	8081B	3/25/14 5:14	JMV	P4C0319
Heptachlor	BRL	ug/L	0.050	0.0077	1	8081B	3/25/14 5:14	JMV	P4C0319
Heptachlor Epoxide	BRL CCV	ug/L	0.050	0.0046	1	8081B	3/25/14 5:14	JMV	P4C0319
Methoxychlor	BRL	ug/L	0.050	0.0087	1	8081B	3/25/14 5:14	JMV	P4C0319
Toxaphene	BRL	ug/L	0.50	0.15	1	8081B	3/25/14 5:14	JMV	P4C0319

Surrogate	Recovery	Control Limits
Decachlorobiphenyl	*129 %*	*13-186*
Tetrachloro-m-xylene	*89 %*	*40-134*

Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1221	BRL	ug/L	1.0	0.11	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1232	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1242	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1248	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1254	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 15:53	JMV	P4C0312
Aroclor 1260	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 15:53	JMV	P4C0312

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*90 %*	*30-161*
Decachlorobiphenyl	*63 %*	*32-178*

Semivolatile Organic Compounds by GC/MS									
4,5-Tetrachlorobenzene	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:07	KC	P4C0329

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	11	2.6	1	8270D	3/19/14 17:43	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
1,3,5-Trinitrobenzene	BRL	ug/L	11	2.9	1	8270D	3/26/14 13:07	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
1,3-Dinitrobenzene	BRL	ug/L	11	1.9	1	8270D	3/26/14 13:07	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	11	2.3	1	8270D	3/19/14 17:43	KC	P4C0329
1,4-Naphthoquinone	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:07	KC	P4C0329
1,4-Phenylenediamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:07	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	11	2.9	1	8270D	3/19/14 17:43	KC	P4C0329
1-Naphthylamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:07	KC	P4C0329
2,3,4,6-Tetrachlorophenol	BRL	ug/L	11	2.0	1	8270D	3/26/14 13:07	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 17:43	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 17:43	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	11	1.1	1	8270D	3/19/14 17:43	KC	P4C0329
2,6-Dichlorophenol	BRL	ug/L	11	3.7	1	8270D	3/26/14 13:07	KC	P4C0329
2,6-Dinitrotoluene	BRL	ug/L	11	1.9	1	8270D	3/19/14 17:43	KC	P4C0329
2-Acetylaminofluorene	BRL	ug/L	11	2.6	1	8270D	3/26/14 13:07	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	11	2.6	1	8270D	3/26/14 13:07	KC	P4C0329
2-Chlorophenol	BRL	ug/L	11	2.5	1	8270D	3/19/14 17:43	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	11	3.0	1	8270D	3/19/14 17:43	KC	P4C0329
2-Methylphenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
2-Naphthylamine	BRL	ug/L	11	1.3	1	8270D	3/26/14 13:07	KC	P4C0329
2-Nitroaniline	BRL	ug/L	11	2.2	1	8270D	3/19/14 17:43	KC	P4C0329
2-Nitrophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
2-Picoline	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:07	KC	P4C0329
3,3´-Dimethylbenzidine	BRL	ug/L	11	0.93	1	8270D	3/26/14 13:07	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.1	1	8270D	3/19/14 17:43	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 17:43	KC	P4C0329
3-Methylcholanthrene	BRL	ug/L	11	1.8	1	8270D	3/26/14 13:07	KC	P4C0329
3-Nitroaniline	BRL	ug/L	11	1.5	1	8270D	3/19/14 17:43	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	3.1	1	8270D	3/19/14 17:43	KC	P4C0329
4-Aminobiphenyl	**2.9 J**	**ug/L**	**11**	**0.96**	**1**	**8270D**	**3/26/14 13:07**	**KC**	**P4C0329**
4-Bromophenyl phenyl ether	BRL	ug/L	11	2.0	1	8270D	3/19/14 17:43	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 17:43	KC	P4C0329
4-Chloroaniline	BRL	ug/L	11	2.9	1	8270D	3/19/14 17:43	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
4-Nitroaniline	BRL	ug/L	11	1.0	1	8270D	3/19/14 17:43	KC	P4C0329
4-Nitrophenol	BRL	ug/L	11	2.9	1	8270D	3/19/14 17:43	KC	P4C0329
4-Nitroquinoline-n-oxide	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:07	KC	P4C0329
5-Nitro-o-toluidine	BRL	ug/L	11	1.0	1	8270D	3/26/14 13:07	KC	P4C0329

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'utions-IES, Inc.
ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
7,12-Dimethylbenz(a)anthracene	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:07	KC	P4C0329
a,a-Dimethylphenethylamine	BRL	ug/L	11	5.0	1	8270D	3/26/14 13:07	KC	P4C0329
Acenaphthene	BRL	ug/L	11	2.4	1	8270D	3/19/14 17:43	KC	P4C0329
Acenaphthylene	BRL	ug/L	11	2.6	1	8270D	3/19/14 17:43	KC	P4C0329
Acetophenone	BRL	ug/L	11	1.4	1	8270D	3/19/14 17:43	KC	P4C0329
Aniline	**34**	**ug/L**	**11**	**2.6**	**1**	**8270D**	**3/19/14 17:43**	**KC**	**P4C0329**
Anthracene	BRL	ug/L	11	1.4	1	8270D	3/19/14 17:43	KC	P4C0329
Aramite	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:07	KC	P4C0329
Azobenzene	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:07	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	11	1.1	1	8270D	3/19/14 17:43	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	11	1.3	1	8270D	3/19/14 17:43	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	11	1.6	1	8270D	3/19/14 17:43	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	11	2.5	1	8270D	3/19/14 17:43	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	11	1.3	1	8270D	3/19/14 17:43	KC	P4C0329
Benzoic Acid	BRL	ug/L	110	57	1	8270D	3/19/14 17:43	KC	P4C0329
Benzyl alcohol	BRL	ug/L	11	2.4	1	8270D	3/19/14 17:43	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.5	1	8270D	3/19/14 17:43	KC	P4C0329
Bi-(2-Chloroethyl)ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
chloroisopropyl)ether	BRL	ug/L	11	2.7	1	8270D	3/19/14 17:43	KC	P4C0329
(2-Ethylhexyl)phthalate	BRL	ug/L	11	2.0	1	8270D	3/19/14 17:43	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	11	1.8	1	8270D	3/19/14 17:43	KC	P4C0329
Chlorobenzilate	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:07	KC	P4C0329
Chrysene	BRL	ug/L	11	1.4	1	8270D	3/19/14 17:43	KC	P4C0329
Diallate	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:07	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	11	2.0	1	8270D	3/19/14 17:43	KC	P4C0329
Dibenzofuran	BRL	ug/L	11	2.5	1	8270D	3/19/14 17:43	KC	P4C0329
Diethyl phthalate	BRL	ug/L	11	1.6	1	8270D	3/19/14 17:43	KC	P4C0329
Dimethoate	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:07	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	11	1.9	1	8270D	3/19/14 17:43	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	11	2.2	1	8270D	3/19/14 17:43	KC	P4C0329
Dinoseb	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:07	KC	P4C0329
Diphenylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:07	KC	P4C0329
Disulfoton	BRL	ug/L	11	1.1	1	8270D	3/26/14 13:07	KC	P4C0329
Ethyl Methanesulfonate	BRL	ug/L	11	2.8	1	8270D	3/26/14 13:07	KC	P4C0329
Famphur	BRL A	ug/L	11	5.9	1	8270D	3/26/14 13:07	KC	P4C0329
Fluoranthene	BRL	ug/L	11	1.1	1	8270D	3/19/14 17:43	KC	P4C0329
Fluorene	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	11	1.6	1	8270D	3/19/14 17:43	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	11	2.6	1	8270D	3/19/14 17:43	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	11	2.1	1	8270D	3/19/14 17:43	KC	P4C0329
Hexachloroethane	BRL	ug/L	11	2.2	1	8270D	3/19/14 17:43	KC	P4C0329
Hexachlorophene	BRL	ug/L	1100	570	1	8270D	3/26/14 13:07	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachloropropene	BRL	ug/L	11	3.3	1	8270D	3/26/14 13:07	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	1.8	1	8270D	3/19/14 17:43	KC	P4C0329
Isodrin	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:07	KC	P4C0329
Isophorone	BRL	ug/L	11	2.8	1	8270D	3/26/14 13:07	KC	P4C0329
Isosafrole	BRL	ug/L	11	3.2	1	8270D	3/26/14 13:07	KC	P4C0329
Kepone	BRL	ug/L	11	5.9	1	8270D	3/26/14 13:07	KC	P4C0329
Methapyrilene	BRL	ug/L	57	14	1	8270D	3/26/14 13:07	KC	P4C0329
Methyl Methanesulfonate	BRL	ug/L	11	5.7	1	8270D	3/26/14 13:07	KC	P4C0329
Methyl parathion	BRL	ug/L	11	1.9	1	8270D	3/26/14 13:07	KC	P4C0329
Naphthalene	BRL	ug/L	11	2.6	1	8270D	3/19/14 17:43	KC	P4C0329
Nitrobenzene	BRL	ug/L	11	2.3	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitrosodibutylamine	BRL	ug/L	11	3.6	1	8270D	3/26/14 13:07	KC	P4C0329
N-Nitrosodiethylamine	BRL	ug/L	11	2.8	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitrosodimethylamine	BRL	ug/L	11	3.7	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.7	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	11	1.8	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitrosomethylethylamine	BRL	ug/L	11	2.7	1	8270D	3/26/14 13:07	KC	P4C0329
N-Nitrosomorpholine	BRL	ug/L	11	3.3	1	8270D	3/19/14 17:43	KC	P4C0329
N-Nitrosopiperidine	BRL	ug/L	11	3.3	1	8270D	3/26/14 13:07	KC	P4C0329
N-Nitrosopyrrolidine	BRL	ug/L	11	3.0	1	8270D	3/26/14 13:07	KC	P4C0329
O,O,O-Triethyl phosphorothioate	BRL	ug/L	11	2.9	1	8270D	3/26/14 13:07	KC	P4C0329
o-Toluidine	BRL	ug/L	11	2.5	1	8270D	3/26/14 13:07	KC	P4C0329
Parathion	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:07	KC	P4C0329
p-Dimethylaminoazobenzene	BRL	ug/L	11	1.1	1	8270D	3/26/14 13:07	KC	P4C0329
Pentachlorobenzene	BRL	ug/L	11	3.2	1	8270D	3/26/14 13:07	KC	P4C0329
Pentachloroethane	BRL	ug/L	11	2.4	1	8270D	3/26/14 13:07	KC	P4C0329
Pentachloronitrobenzene	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:07	KC	P4C0329
Pentachlorophenol	BRL	ug/L	11	1.9	1	8270D	3/19/14 17:43	KC	P4C0329
Phenacetin	BRL	ug/L	11	1.7	1	8270D	3/26/14 13:07	KC	P4C0329
Phenanthrene	BRL	ug/L	11	1.4	1	8270D	3/19/14 17:43	KC	P4C0329
Phenol	BRL	ug/L	11	2.5	1	8270D	3/19/14 17:43	KC	P4C0329
Phorate	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:07	KC	P4C0329
Pronamide	BRL	ug/L	11	1.1	1	8270D	3/26/14 13:07	KC	P4C0329
Pyrene	BRL	ug/L	11	1.6	1	8270D	3/19/14 17:43	KC	P4C0329
Pyridine	BRL	ug/L	11	3.8	1	8270D	3/19/14 17:43	KC	P4C0329
Safrole	BRL	ug/L	11	3.4	1	8270D	3/26/14 13:07	KC	P4C0329
Sulfotepp	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:07	KC	P4C0329
Thionazin	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:07	KC	P4C0329

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*77 %*	*49-109*
2-Fluorobiphenyl	*90 %*	*55-96*
2-Fluorophenol	*37 %*	*27-74*
Nitrobenzene-d5	*88 %*	*53-99*

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Laboratory Report

04/10/2014

'utions-IES, Inc.
.n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Phenol-d5				*31 %*	*11-52*	
			Terphenyl-d14				*105 %*	*42-133*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	3/17/14 16:40	MEH	P4C0305
Antimony	BRL	mg/L	0.010	0.0011	1	*6010C	3/26/14 18:21	BGM	P4C0300
Arsenic	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:21	BGM	P4C0300
Barium	**0.030**	**mg/L**	**0.010**	**0.0031**	**1**	***6010C**	**3/26/14 18:21**	**BGM**	**P4C0300**
Beryllium	BRL	mg/L	0.0020	0.00012	1	*6010C	3/26/14 18:21	BGM	P4C0300
Cadmium	BRL	mg/L	0.0010	0.000039	1	*6010C	3/26/14 18:21	BGM	P4C0300
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010C	3/26/14 18:21	BGM	P4C0300
Cobalt	**0.066**	**mg/L**	**0.0050**	**0.00015**	**1**	***6010C**	**3/26/14 18:21**	**BGM**	**P4C0300**
Copper	BRL	mg/L	0.010	0.0010	1	*6010C	3/26/14 18:21	BGM	P4C0300
Lead	BRL	mg/L	0.0050	0.00039	1	*6010C	3/26/14 18:21	BGM	P4C0300
Nickel	BRL	mg/L	0.010	0.00024	1	*6010C	3/26/14 18:21	BGM	P4C0300
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	3/26/14 18:21	BGM	P4C0300
Silver	BRL	mg/L	0.0050	0.00012	1	*6010C	3/26/14 18:21	BGM	P4C0300
Thallium	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:21	BGM	P4C0300
	BRL	mg/L	0.050	0.00076	1	*6010C	3/26/14 18:21	BGM	P4C0300
dium	BRL	mg/L	0.0050	0.00017	1	*6010C	3/26/14 18:21	BGM	P4C0300
Zinc	BRL	mg/L	0.030	0.0025	1	*6010C	3/26/14 18:21	BGM	P4C0300
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 1:14	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 1:14	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 1:14	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:14	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 1:14	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 1:14	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 1:14	VHL	P4C0314
ichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 1:14	VHL	P4C0314

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 1:14	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 1:14	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 1:14	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 1:14	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/16/14 1:14	VHL	P4C0314
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/16/14 1:14	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 1:14	VHL	P4C0314
Benzene	**1.7**	**ug/L**	**0.50**	**0.072**	**1**	**8260B**	**3/16/14 1:14**	**VHL**	**P4C0314**
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 1:14	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:14	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 1:14	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 1:14	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 1:14	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 1:14	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 1:14	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 1:14	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:14	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 1:14	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 1:14	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 1:14	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 1:14	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 1:14	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:14	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 1:14	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/16/14 1:14	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 1:14	VHL	P4C0314
Isopropyl Ether	**1.9**	**ug/L**	**0.50**	**0.043**	**1**	**8260B**	**3/16/14 1:14**	**VHL**	**P4C0314**
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 1:14	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 1:14	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/16/14 1:14	VHL	P4C0314
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 1:14	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/16/14 1:14	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 1:14	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/16/14 1:14	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 1:14	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 1:14	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/16/14 1:14	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 1:14	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 1:14	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 1:14	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 1:14	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/16/14 1:14	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 1:14	VHL	P4C0314

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Laboratory Report

04/10/2014

utions-IES, Inc.
n: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: WW-7S
Prism Sample ID: 4030246-05
Prism Work Order: 4030246
Time Collected: 03/11/14 16:05
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 1:14	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 1:14	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 1:14	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 1:14	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 1:14	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*107 %*	*77-123*

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Laboratory Report

04/10/2014

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Cyanide	BRL	mg/L	0.0050	0.0018	1	*9014	3/21/14 10:28	CLB	P4C0410
Sulfide	BRL Aa	mg/L	2.0	0.45	1	*SM4500-S F	3/17/14 14:00	MES	P4C0324
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL	ug/L	0.050	0.0036	1	8081B	3/25/14 5:57	JMV	P4C0319
4,4'-DDE	BRL	ug/L	0.050	0.0038	1	8081B	3/25/14 5:57	JMV	P4C0319
4,4'-DDT	BRL	ug/L	0.050	0.021	1	8081B	3/25/14 5:57	JMV	P4C0319
Aldrin	BRL CCV	ug/L	0.050	0.010	1	8081B	3/25/14 5:57	JMV	P4C0319
alpha-BHC	BRL CCV	ug/L	0.050	0.0044	1	8081B	3/25/14 5:57	JMV	P4C0319
cis-Chlordane	BRL CCV	ug/L	0.050	0.0070	1	8081B	3/25/14 5:57	JMV	P4C0319
beta-BHC	BRL CCV	ug/L	0.050	0.0066	1	8081B	3/25/14 5:57	JMV	P4C0319
Chlordane	BRL	ug/L	0.50	0.14	1	8081B	3/25/14 5:57	JMV	P4C0319
delta-BHC	BRL CCV	ug/L	0.050	0.0033	1	8081B	3/25/14 5:57	JMV	P4C0319
Dieldrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 5:57	JMV	P4C0319
Endosulfan I	BRL CCV	ug/L	0.050	0.0084	1	8081B	3/25/14 5:57	JMV	P4C0319
Endosulfan II	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 5:57	JMV	P4C0319
Endosulfan Sulfate	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 5:57	JMV	P4C0319
Endrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 5:57	JMV	P4C0319
Endrin Aldehyde	BRL CCV	ug/L	0.050	0.0053	1	8081B	3/25/14 5:57	JMV	P4C0319
Endrin Ketone	BRL	ug/L	0.050	0.0043	1	8081B	3/25/14 5:57	JMV	P4C0319
gamma-BHC	BRL	ug/L	0.050	0.0049	1	8081B	3/25/14 5:57	JMV	P4C0319
trans-Chlordane	BRL CCV	ug/L	0.050	0.0060	1	8081B	3/25/14 5:57	JMV	P4C0319
Heptachlor	BRL	ug/L	0.050	0.0077	1	8081B	3/25/14 5:57	JMV	P4C0319
Heptachlor Epoxide	BRL CCV	ug/L	0.050	0.0046	1	8081B	3/25/14 5:57	JMV	P4C0319
Methoxychlor	BRL	ug/L	0.050	0.0087	1	8081B	3/25/14 5:57	JMV	P4C0319
Toxaphene	BRL	ug/L	0.50	0.15	1	8081B	3/25/14 5:57	JMV	P4C0319

Surrogate	Recovery	Control Limits
Decachlorobiphenyl	*110 %*	*13-186*
Tetrachloro-m-xylene	*90 %*	*40-134*

Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1221	BRL	ug/L	1.0	0.11	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1232	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1242	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1248	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1254	BRL	ug/L	0.50	0.16	1	8082A	3/18/14 16:35	JMV	P4C0312
Aroclor 1260	BRL	ug/L	0.50	0.14	1	8082A	3/18/14 16:35	JMV	P4C0312

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*91 %*	*30-161*
Decachlorobiphenyl	*64 %*	*32-178*

Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:29	KC	P4C0329

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

'utions-IES, Inc.
.ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	11	2.5	1	8270D	3/19/14 18:05	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
1,3,5-Trinitrobenzene	BRL	ug/L	11	2.9	1	8270D	3/26/14 13:29	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
1,3-Dinitrobenzene	BRL	ug/L	11	1.8	1	8270D	3/26/14 13:29	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	11	2.3	1	8270D	3/19/14 18:05	KC	P4C0329
1,4-Naphthoquinone	BRL	ug/L	11	2.2	1	8270D	3/26/14 13:29	KC	P4C0329
1,4-Phenylenediamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:29	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
1-Naphthylamine	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:29	KC	P4C0329
2,3,4,6-Tetrachlorophenol	BRL	ug/L	11	2.0	1	8270D	3/26/14 13:29	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 18:05	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 18:05	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	11	1.1	1	8270D	3/19/14 18:05	KC	P4C0329
2,6-Dichlorophenol	BRL	ug/L	11	3.6	1	8270D	3/26/14 13:29	KC	P4C0329
nitrotoluene	BRL	ug/L	11	1.8	1	8270D	3/19/14 18:05	KC	P4C0329
.. .cetylaminofluorene	BRL	ug/L	11	2.5	1	8270D	3/26/14 13:29	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
2-Chlorophenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 18:05	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	11	3.0	1	8270D	3/19/14 18:05	KC	P4C0329
2-Methylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 18:05	KC	P4C0329
2-Naphthylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329
2-Nitroaniline	BRL	ug/L	11	2.2	1	8270D	3/19/14 18:05	KC	P4C0329
2-Nitrophenol	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
2-Picoline	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:29	KC	P4C0329
3,3'-Dimethylbenzidine	BRL	ug/L	11	0.91	1	8270D	3/26/14 13:29	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.1	1	8270D	3/19/14 18:05	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	11	2.7	1	8270D	3/19/14 18:05	KC	P4C0329
3-Methylcholanthrene	BRL	ug/L	11	1.8	1	8270D	3/26/14 13:29	KC	P4C0329
3-Nitroaniline	BRL	ug/L	11	1.5	1	8270D	3/19/14 18:05	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	3.0	1	8270D	3/19/14 18:05	KC	P4C0329
4-Aminobiphenyl	**2.9 J**	**ug/L**	**11**	**0.94**	**1**	**8270D**	**3/26/14 13:29**	**KC**	**P4C0329**
4-Bromophenyl phenyl ether	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
4-Chloroaniline	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 18:05	KC	P4C0329
4-Nitroaniline	BRL	ug/L	11	1.0	1	8270D	3/19/14 18:05	KC	P4C0329
4-Nitrophenol	BRL	ug/L	11	2.9	1	8270D	3/19/14 18:05	KC	P4C0329
4-Nitroquinoline-n-oxide	BRL	ug/L	11	1.6	1	8270D	3/26/14 13:29	KC	P4C0329
5-Nitro-o-toluidine	BRL	ug/L	11	1.0	1	8270D	3/26/14 13:29	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
7,12-Dimethylbenz(a)anthracene	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:29	KC	P4C0329
a,a-Dimethylphenethylamine	BRL	ug/L	11	4.9	1	8270D	3/26/14 13:29	KC	P4C0329
Acenaphthene	BRL	ug/L	11	2.4	1	8270D	3/19/14 18:05	KC	P4C0329
Acenaphthylene	BRL	ug/L	11	2.5	1	8270D	3/19/14 18:05	KC	P4C0329
Acetophenone	BRL	ug/L	11	1.4	1	8270D	3/19/14 18:05	KC	P4C0329
Aniline	**33**	**ug/L**	**11**	**2.5**	**1**	**8270D**	**3/19/14 18:05**	**KC**	**P4C0329**
Anthracene	BRL	ug/L	11	1.4	1	8270D	3/19/14 18:05	KC	P4C0329
Aramite	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:29	KC	P4C0329
Azobenzene	BRL	ug/L	11	2.0	1	8270D	3/26/14 13:29	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	11	1.1	1	8270D	3/19/14 18:05	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	11	1.2	1	8270D	3/19/14 18:05	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	11	1.5	1	8270D	3/19/14 18:05	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	11	2.4	1	8270D	3/19/14 18:05	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	11	1.2	1	8270D	3/19/14 18:05	KC	P4C0329
Benzoic Acid	BRL	ug/L	110	56	1	8270D	3/19/14 18:05	KC	P4C0329
Benzyl alcohol	BRL	ug/L	11	2.3	1	8270D	3/19/14 18:05	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.4	1	8270D	3/19/14 18:05	KC	P4C0329
Bis(2-Chloroethyl)ether	BRL	ug/L	11	2.1	1	8270D	3/19/14 18:05	KC	P4C0329
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	11	1.7	1	8270D	3/19/14 18:05	KC	P4C0329
Chlorobenzilate	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:29	KC	P4C0329
Chrysene	BRL	ug/L	11	1.3	1	8270D	3/19/14 18:05	KC	P4C0329
Diallate	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
Dibenzofuran	BRL	ug/L	11	2.5	1	8270D	3/19/14 18:05	KC	P4C0329
Diethyl phthalate	BRL	ug/L	11	1.6	1	8270D	3/19/14 18:05	KC	P4C0329
Dimethoate	BRL	ug/L	11	2.1	1	8270D	3/26/14 13:29	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	11	1.9	1	8270D	3/19/14 18:05	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 18:05	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	11	2.1	1	8270D	3/19/14 18:05	KC	P4C0329
Dinoseb	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:29	KC	P4C0329
Diphenylamine	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329
Disulfoton	BRL	ug/L	11	1.1	1	8270D	3/26/14 13:29	KC	P4C0329
Ethyl Methanesulfonate	BRL	ug/L	11	2.7	1	8270D	3/26/14 13:29	KC	P4C0329
Famphur	BRL A	ug/L	11	5.8	1	8270D	3/26/14 13:29	KC	P4C0329
Fluoranthene	BRL	ug/L	11	1.1	1	8270D	3/19/14 18:05	KC	P4C0329
Fluorene	BRL	ug/L	11	2.1	1	8270D	3/19/14 18:05	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	11	1.6	1	8270D	3/19/14 18:05	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	11	2.0	1	8270D	3/19/14 18:05	KC	P4C0329
Hexachloroethane	BRL	ug/L	11	2.2	1	8270D	3/19/14 18:05	KC	P4C0329
Hexachlorophene	BRL	ug/L	1100	560	1	8270D	3/26/14 13:29	KC	P4C0329

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`olutions-IES, Inc.
n: James P. Tiger
101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachloropropene	BRL	ug/L	11	3.2	1	8270D	3/26/14 13:29	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	1.8	1	8270D	3/19/14 18:05	KC	P4C0329
Isodrin	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:29	KC	P4C0329
Isophorone	BRL	ug/L	11	2.7	1	8270D	3/19/14 18:05	KC	P4C0329
Isosafrole	BRL	ug/L	11	3.1	1	8270D	3/26/14 13:29	KC	P4C0329
Kepone	BRL	ug/L	11	5.7	1	8270D	3/26/14 13:29	KC	P4C0329
Methapyrilene	BRL	ug/L	56	13	1	8270D	3/26/14 13:29	KC	P4C0329
Methyl Methanesulfonate	BRL	ug/L	11	5.6	1	8270D	3/26/14 13:29	KC	P4C0329
Methyl parathion	BRL	ug/L	11	1.9	1	8270D	3/26/14 13:29	KC	P4C0329
Naphthalene	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
Nitrobenzene	BRL	ug/L	11	2.2	1	8270D	3/19/14 18:05	KC	P4C0329
N-Nitrosodibutylamine	BRL	ug/L	11	3.5	1	8270D	3/26/14 13:29	KC	P4C0329
N-Nitrosodiethylamine	BRL	ug/L	11	2.8	1	8270D	3/19/14 18:05	KC	P4C0329
N-Nitrosodimethylamine	BRL	ug/L	11	3.6	1	8270D	3/19/14 18:05	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.6	1	8270D	3/19/14 18:05	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	11	1.7	1	8270D	3/19/14 18:05	KC	P4C0329
N-Nitrosomethylethylamine	BRL	ug/L	11	2.6	1	8270D	3/26/14 13:29	KC	P4C0329
N-Nitrosomorpholine	BRL	ug/L	11	3.2	1	8270D	3/19/14 18:05	KC	P4C0329
rosopiperidine	BRL	ug/L	11	3.2	1	8270D	3/26/14 13:29	KC	P4C0329
rosopyrrolidine	BRL	ug/L	11	3.0	1	8270D	3/26/14 13:29	KC	P4C0329
O,O,O-Triethyl phosphorothioate	BRL	ug/L	11	2.9	1	8270D	3/26/14 13:29	KC	P4C0329
o-Toluidine	BRL	ug/L	11	2.4	1	8270D	3/26/14 13:29	KC	P4C0329
Parathion	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329
p-Dimethylaminoazobenzene	BRL	ug/L	11	1.0	1	8270D	3/26/14 13:29	KC	P4C0329
Pentachlorobenzene	BRL	ug/L	11	3.1	1	8270D	3/26/14 13:29	KC	P4C0329
Pentachloroethane	BRL	ug/L	11	2.3	1	8270D	3/26/14 13:29	KC	P4C0329
Pentachloronitrobenzene	BRL	ug/L	11	1.4	1	8270D	3/26/14 13:29	KC	P4C0329
Pentachlorophenol	BRL	ug/L	11	1.9	1	8270D	3/19/14 18:05	KC	P4C0329
Phenacetin	BRL	ug/L	11	1.7	1	8270D	3/26/14 13:29	KC	P4C0329
Phenanthrene	BRL	ug/L	11	1.3	1	8270D	3/19/14 18:05	KC	P4C0329
Phenol	BRL	ug/L	11	2.4	1	8270D	3/19/14 18:05	KC	P4C0329
Phorate	BRL	ug/L	11	1.3	1	8270D	3/26/14 13:29	KC	P4C0329
Pronamide	BRL	ug/L	11	1.1	1	8270D	3/26/14 13:29	KC	P4C0329
Pyrene	BRL	ug/L	11	1.6	1	8270D	3/19/14 18:05	KC	P4C0329
Pyridine	BRL	ug/L	11	3.7	1	8270D	3/19/14 18:05	KC	P4C0329
Safrole	BRL	ug/L	11	3.4	1	8270D	3/26/14 13:29	KC	P4C0329
Sulfotepp	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329
Thionazin	BRL	ug/L	11	1.2	1	8270D	3/26/14 13:29	KC	P4C0329

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*99 %*	*49-109*
2-Fluorobiphenyl	*86 %*	*55-96*
2-Fluorophenol	*54 %*	*27-74*
Nitrobenzene-d5	*84 %*	*53-99*

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1101 Nowell Road
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Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Phenol-d5				*35 %*	*11-52*	
			Terphenyl-d14				*97 %*	*42-133*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	3/17/14 16:44	MEH	P4C0305
Antimony	BRL	mg/L	0.010	0.0011	1	*6010C	3/26/14 18:28	BGM	P4C0300
Arsenic	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:28	BGM	P4C0300
Barium	**0.032**	**mg/L**	**0.010**	**0.0031**	**1**	***6010C**	**3/26/14 18:28**	**BGM**	**P4C0300**
Beryllium	BRL	mg/L	0.0020	0.00012	1	*6010C	3/26/14 18:28	BGM	P4C0300
Cadmium	BRL	mg/L	0.0010	0.000039	1	*6010C	3/26/14 18:28	BGM	P4C0300
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010C	3/26/14 18:28	BGM	P4C0300
Cobalt	**0.068**	**mg/L**	**0.0050**	**0.00015**	**1**	***6010C**	**3/26/14 18:28**	**BGM**	**P4C0300**
Copper	BRL	mg/L	0.010	0.0010	1	*6010C	3/26/14 18:28	BGM	P4C0300
Lead	BRL	mg/L	0.0050	0.00039	1	*6010C	3/26/14 18:28	BGM	P4C0300
Nickel	BRL	mg/L	0.010	0.00024	1	*6010C	3/26/14 18:28	BGM	P4C0300
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	3/26/14 18:28	BGM	P4C0300
Silver	BRL	mg/L	0.0050	0.00012	1	*6010C	3/26/14 18:28	BGM	P4C0300
Thallium	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:28	BGM	P4C0300
Tin	BRL	mg/L	0.050	0.00076	1	*6010C	3/26/14 18:28	BGM	P4C0300
Vanadium	BRL	mg/L	0.0050	0.00017	1	*6010C	3/26/14 18:28	BGM	P4C0300
Zinc	BRL	mg/L	0.030	0.0025	1	*6010C	3/26/14 18:28	BGM	P4C0300
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 1:39	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 1:39	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 1:39	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:39	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 1:39	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 1:39	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 1:39	VHL	P4C0314
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 1:39	VHL	P4C0314

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lutions-IES, Inc.
n: James P. Tiger
101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 1:39	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 1:39	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 1:39	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 1:39	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/16/14 1:39	VHL	P4C0314
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/16/14 1:39	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 1:39	VHL	P4C0314
Benzene	**1.7**	**ug/L**	**0.50**	**0.072**	**1**	**8260B**	**3/16/14 1:39**	**VHL**	**P4C0314**
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 1:39	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:39	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 1:39	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 1:39	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 1:39	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 1:39	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 1:39	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 1:39	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:39	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 1:39	VHL	P4C0314
omethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 1:39	VHL	P4C0314
,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 1:39	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 1:39	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 1:39	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 1:39	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 1:39	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/16/14 1:39	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 1:39	VHL	P4C0314
Isopropyl Ether	**1.9**	**ug/L**	**0.50**	**0.043**	**1**	**8260B**	**3/16/14 1:39**	**VHL**	**P4C0314**
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 1:39	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 1:39	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/16/14 1:39	VHL	P4C0314
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 1:39	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/16/14 1:39	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 1:39	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/16/14 1:39	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 1:39	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 1:39	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/16/14 1:39	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 1:39	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 1:39	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 1:39	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 1:39	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/16/14 1:39	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 1:39	VHL	P4C0314

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 4030246-06
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 1:39	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 1:39	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 1:39	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 1:39	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 1:39	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*111 %*	*77-123*

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Laboratory Report

04/10/2014

-lutions-IES, Inc.
n: James P. Tiger
101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Cyanide	BRL	mg/L	0.0050	0.0018	1	*9014	3/21/14 10:28	CLB	P4C0410
Sulfide	BRL Aa	mg/L	2.0	0.45	1	*SM4500-S F	3/17/14 14:00	MES	P4C0324
Organochlorine Pesticides by GC/ECD									
4,4'-DDD	BRL	ug/L	0.050	0.0036	1	8081B	3/25/14 6:40	JMV	P4C0319
4,4'-DDE	BRL	ug/L	0.050	0.0038	1	8081B	3/25/14 6:40	JMV	P4C0319
4,4'-DDT	BRL	ug/L	0.050	0.021	1	8081B	3/25/14 6:40	JMV	P4C0319
Aldrin	BRL CCV	ug/L	0.050	0.010	1	8081B	3/25/14 6:40	JMV	P4C0319
alpha-BHC	BRL CCV	ug/L	0.050	0.0044	1	8081B	3/25/14 6:40	JMV	P4C0319
cis-Chlordane	BRL CCV	ug/L	0.050	0.0070	1	8081B	3/25/14 6:40	JMV	P4C0319
beta-BHC	BRL CCV	ug/L	0.050	0.0066	1	8081B	3/25/14 6:40	JMV	P4C0319
Chlordane	BRL	ug/L	0.50	0.14	1	8081B	3/25/14 6:40	JMV	P4C0319
delta-BHC	BRL CCV	ug/L	0.050	0.0033	1	8081B	3/25/14 6:40	JMV	P4C0319
Dieldrin	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 6:40	JMV	P4C0319
Endosulfan I	BRL CCV	ug/L	0.050	0.0084	1	8081B	3/25/14 6:40	JMV	P4C0319
Endosulfan II	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 6:40	JMV	P4C0319
Endosulfan Sulfate	BRL CCV	ug/L	0.050	0.0047	1	8081B	3/25/14 6:40	JMV	P4C0319
in	BRL	ug/L	0.050	0.0046	1	8081B	3/25/14 6:40	JMV	P4C0319
n Aldehyde	BRL CCV	ug/L	0.050	0.0053	1	8081B	3/25/14 6:40	JMV	P4C0319
Endrin Ketone	BRL	ug/L	0.050	0.0043	1	8081B	3/25/14 6:40	JMV	P4C0319
gamma-BHC	BRL	ug/L	0.050	0.0049	1	8081B	3/25/14 6:40	JMV	P4C0319
trans-Chlordane	BRL CCV	ug/L	0.050	0.0060	1	8081B	3/25/14 6:40	JMV	P4C0319
Heptachlor	BRL	ug/L	0.050	0.0077	1	8081B	3/25/14 6:40	JMV	P4C0319
Heptachlor Epoxide	BRL CCV	ug/L	0.050	0.0046	1	8081B	3/25/14 6:40	JMV	P4C0319
Methoxychlor	BRL	ug/L	0.050	0.0087	1	8081B	3/25/14 6:40	JMV	P4C0319
Toxaphene	BRL	ug/L	0.50	0.15	1	8081B	3/25/14 6:40	JMV	P4C0319

Surrogate	Recovery	Control Limits
Decachlorobiphenyl	*143 %*	*13-186*
Tetrachloro-m-xylene	*81 %*	*40-134*

Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	ug/L	0.50	0.16	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1221	BRL	ug/L	1.0	0.11	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1232	BRL	ug/L	0.50	0.16	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1242	BRL	ug/L	0.50	0.14	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1248	BRL	ug/L	0.50	0.14	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1254	BRL	ug/L	0.50	0.16	1	8082A	3/19/14 10:29	JMV	P4C0312
Aroclor 1260	BRL	ug/L	0.50	0.14	1	8082A	3/19/14 10:29	JMV	P4C0312

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*86 %*	*30-161*
Decachlorobiphenyl	*80 %*	*32-178*

Semivolatile Organic Compounds by GC/MS									
4,5-Tetrachlorobenzene	BRL	ug/L	14	2.5	1	8270D	3/26/14 13:50	KC	P4C0329

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	14	3.0	1	8270D	3/19/14 18:26	KC	P4C0329
1,2-Dichlorobenzene	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
1,3,5-Trinitrobenzene	BRL	ug/L	14	3.4	1	8270D	3/26/14 13:50	KC	P4C0329
1,3-Dichlorobenzene	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
1,3-Dinitrobenzene	BRL	ug/L	14	2.2	1	8270D	3/19/14 18:26	KC	P4C0329
1,4-Dichlorobenzene	BRL	ug/L	14	2.7	1	8270D	3/19/14 18:26	KC	P4C0329
1,4-Naphthoquinone	BRL	ug/L	14	2.7	1	8270D	3/26/14 13:50	KC	P4C0329
1,4-Phenylenediamine	BRL	ug/L	14	1.9	1	8270D	3/26/14 13:50	KC	P4C0329
1-Methylnaphthalene	BRL	ug/L	14	3.4	1	8270D	3/19/14 18:26	KC	P4C0329
1-Naphthylamine	BRL	ug/L	14	1.9	1	8270D	3/26/14 13:50	KC	P4C0329
2,3,4,6-Tetrachlorophenol	BRL	ug/L	14	2.4	1	8270D	3/26/14 13:50	KC	P4C0329
2,4,5-Trichlorophenol	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
2,4,6-Trichlorophenol	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
2,4-Dichlorophenol	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
2,4-Dimethylphenol	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
2,4-Dinitrophenol	BRL	ug/L	14	3.2	1	8270D	3/19/14 18:26	KC	P4C0329
2,4-Dinitrotoluene	BRL	ug/L	14	1.3	1	8270D	3/19/14 18:26	KC	P4C0329
2,6-Dichlorophenol	BRL	ug/L	14	4.3	1	8270D	3/26/14 13:50	KC	P4C0329
2,6-Dinitrotoluene	BRL	ug/L	14	2.2	1	8270D	3/19/14 18:26	KC	P4C0329
2-Acetylaminofluorene	BRL	ug/L	14	3.0	1	8270D	3/26/14 13:50	KC	P4C0329
2-Chloronaphthalene	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
2-Chlorophenol	BRL	ug/L	14	2.9	1	8270D	3/19/14 18:26	KC	P4C0329
2-Methylnaphthalene	BRL	ug/L	14	3.6	1	8270D	3/19/14 18:26	KC	P4C0329
2-Methylphenol	BRL	ug/L	14	3.2	1	8270D	3/19/14 18:26	KC	P4C0329
2-Naphthylamine	BRL	ug/L	14	1.5	1	8270D	3/26/14 13:50	KC	P4C0329
2-Nitroaniline	BRL	ug/L	14	2.6	1	8270D	3/19/14 18:26	KC	P4C0329
2-Nitrophenol	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
2-Picoline	BRL	ug/L	14	2.7	1	8270D	3/26/14 13:50	KC	P4C0329
3,3'-Dimethylbenzidine	BRL	ug/L	14	1.1	1	8270D	3/26/14 13:50	KC	P4C0329
3,3'-Dichlorobenzidine	BRL	ug/L	14	1.3	1	8270D	3/19/14 18:26	KC	P4C0329
3/4-Methylphenol	BRL	ug/L	14	3.2	1	8270D	3/19/14 18:26	KC	P4C0329
3-Methylcholanthrene	BRL	ug/L	14	2.1	1	8270D	3/26/14 13:50	KC	P4C0329
3-Nitroaniline	BRL	ug/L	14	1.8	1	8270D	3/19/14 18:26	KC	P4C0329
4,6-Dinitro-2-methylphenol	BRL	ug/L	14	3.6	1	8270D	3/19/14 18:26	KC	P4C0329
4-Aminobiphenyl	BRL	ug/L	14	1.1	1	8270D	3/26/14 13:50	KC	P4C0329
4-Bromophenyl phenyl ether	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
4-Chloro-3-methylphenol	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
4-Chloroaniline	BRL	ug/L	14	3.4	1	8270D	3/19/14 18:26	KC	P4C0329
4-Chlorophenyl phenyl ether	BRL	ug/L	14	2.5	1	8270D	3/19/14 18:26	KC	P4C0329
4-Nitroaniline	BRL	ug/L	14	1.2	1	8270D	3/19/14 18:26	KC	P4C0329
4-Nitrophenol	BRL	ug/L	14	3.5	1	8270D	3/19/14 18:26	KC	P4C0329
4-Nitroquinoline-n-oxide	BRL	ug/L	14	1.9	1	8270D	3/26/14 13:50	KC	P4C0329
5-Nitro-o-toluidine	BRL	ug/L	14	1.2	1	8270D	3/26/14 13:50	KC	P4C0329

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lutions-IES, Inc.
1: James P. Tiger
101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
7,12-Dimethylbenz(a)anthracene	BRL	ug/L	14	1.7	1	8270D	3/26/14 13:50	KC	P4C0329
a,a-Dimethylphenethylamine	BRL	ug/L	14	5.8	1	8270D	3/26/14 13:50	KC	P4C0329
Acenaphthene	BRL	ug/L	14	2.9	1	8270D	3/19/14 18:26	KC	P4C0329
Acenaphthylene	BRL	ug/L	14	3.0	1	8270D	3/19/14 18:26	KC	P4C0329
Acetophenone	BRL	ug/L	14	1.7	1	8270D	3/19/14 18:26	KC	P4C0329
Aniline	BRL	ug/L	14	3.0	1	8270D	3/19/14 18:26	KC	P4C0329
Anthracene	BRL	ug/L	14	1.7	1	8270D	3/19/14 18:26	KC	P4C0329
Aramite	BRL	ug/L	14	2.5	1	8270D	3/26/14 13:50	KC	P4C0329
Azobenzene	BRL	ug/L	14	2.4	1	8270D	3/26/14 13:50	KC	P4C0329
Benzo(a)anthracene	BRL	ug/L	14	1.3	1	8270D	3/19/14 18:26	KC	P4C0329
Benzo(a)pyrene	BRL	ug/L	14	1.5	1	8270D	3/19/14 18:26	KC	P4C0329
Benzo(b)fluoranthene	BRL	ug/L	14	1.8	1	8270D	3/19/14 18:26	KC	P4C0329
Benzo(g,h,i)perylene	BRL	ug/L	14	2.9	1	8270D	3/19/14 18:26	KC	P4C0329
Benzo(k)fluoranthene	BRL	ug/L	14	1.5	1	8270D	3/19/14 18:26	KC	P4C0329
Benzoic Acid	BRL	ug/L	140	68	1	8270D	3/19/14 18:26	KC	P4C0329
Benzyl alcohol	BRL	ug/L	14	2.8	1	8270D	3/19/14 18:26	KC	P4C0329
bis(2-Chloroethoxy)methane	BRL	ug/L	14	2.9	1	8270D	3/19/14 18:26	KC	P4C0329
Bis(2-Chloroethyl)ether	BRL	ug/L	14	2.5	1	8270D	3/19/14 18:26	KC	P4C0329
chloroisopropyl)ether	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
-Ethylhexyl)phthalate	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
Butyl benzyl phthalate	BRL	ug/L	14	2.1	1	8270D	3/19/14 18:26	KC	P4C0329
Chlorobenzilate	BRL	ug/L	14	1.7	1	8270D	3/26/14 13:50	KC	P4C0329
Chrysene	BRL	ug/L	14	1.6	1	8270D	3/19/14 18:26	KC	P4C0329
Diallate	BRL	ug/L	14	1.4	1	8270D	3/26/14 13:50	KC	P4C0329
Dibenzo(a,h)anthracene	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
Dibenzofuran	BRL	ug/L	14	3.0	1	8270D	3/19/14 18:26	KC	P4C0329
Diethyl phthalate	BRL	ug/L	14	1.9	1	8270D	3/19/14 18:26	KC	P4C0329
Dimethoate	BRL	ug/L	14	2.5	1	8270D	3/26/14 13:50	KC	P4C0329
Dimethyl phthalate	BRL	ug/L	14	2.2	1	8270D	3/19/14 18:26	KC	P4C0329
Di-n-butyl phthalate	BRL	ug/L	14	2.5	1	8270D	3/19/14 18:26	KC	P4C0329
Di-n-octyl phthalate	BRL	ug/L	14	2.6	1	8270D	3/19/14 18:26	KC	P4C0329
Dinoseb	BRL	ug/L	14	2.8	1	8270D	3/26/14 13:50	KC	P4C0329
Diphenylamine	BRL	ug/L	14	1.4	1	8270D	3/26/14 13:50	KC	P4C0329
Disulfoton	BRL	ug/L	14	1.3	1	8270D	3/26/14 13:50	KC	P4C0329
Ethyl Methanesulfonate	BRL	ug/L	14	3.3	1	8270D	3/26/14 13:50	KC	P4C0329
Famphur	BRL A	ug/L	14	6.9	1	8270D	3/26/14 13:50	KC	P4C0329
Fluoranthene	BRL	ug/L	14	1.3	1	8270D	3/19/14 18:26	KC	P4C0329
Fluorene	BRL	ug/L	14	2.5	1	8270D	3/19/14 18:26	KC	P4C0329
Hexachlorobenzene	BRL	ug/L	14	1.9	1	8270D	3/19/14 18:26	KC	P4C0329
Hexachlorobutadiene	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
Hexachlorocyclopentadiene	BRL	ug/L	14	2.4	1	8270D	3/19/14 18:26	KC	P4C0329
Hexachloroethane	BRL	ug/L	14	2.6	1	8270D	3/19/14 18:26	KC	P4C0329
Hexachlorophene	BRL	ug/L	1400	680	1	8270D	3/26/14 13:50	KC	P4C0329

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachloropropene	BRL	ug/L	14	3.9	1	8270D	3/26/14 13:50	KC	P4C0329
Indeno(1,2,3-cd)pyrene	BRL	ug/L	14	2.1	1	8270D	3/19/14 18:26	KC	P4C0329
Isodrin	BRL	ug/L	14	1.7	1	8270D	3/26/14 13:50	KC	P4C0329
Isophorone	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
Isosafrole	BRL	ug/L	14	3.8	1	8270D	3/26/14 13:50	KC	P4C0329
Kepone	BRL	ug/L	14	6.9	1	8270D	3/26/14 13:50	KC	P4C0329
Methapyrilene	BRL	ug/L	68	16	1	8270D	3/26/14 13:50	KC	P4C0329
Methyl Methanesulfonate	BRL	ug/L	14	6.8	1	8270D	3/26/14 13:50	KC	P4C0329
Methyl parathion	BRL	ug/L	14	2.3	1	8270D	3/26/14 13:50	KC	P4C0329
Naphthalene	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
Nitrobenzene	BRL	ug/L	14	2.6	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitrosodibutylamine	BRL	ug/L	14	4.2	1	8270D	3/26/14 13:50	KC	P4C0329
N-Nitrosodiethylamine	BRL	ug/L	14	3.3	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitrosodimethylamine	BRL	ug/L	14	4.3	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitroso-di-n-propylamine	BRL	ug/L	14	3.1	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitrosodiphenylamine	BRL	ug/L	14	2.1	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitrosomethylethylamine	BRL	ug/L	14	3.1	1	8270D	3/26/14 13:50	KC	P4C0329
N-Nitrosomorpholine	BRL	ug/L	14	3.9	1	8270D	3/19/14 18:26	KC	P4C0329
N-Nitrosopiperidine	BRL	ug/L	14	3.9	1	8270D	3/26/14 13:50	KC	P4C0329
N-Nitrosopyrrolidine	BRL	ug/L	14	3.6	1	8270D	3/26/14 13:50	KC	P4C0329
O,O,O-Triethyl phosphorothioate	BRL	ug/L	14	3.5	1	8270D	3/26/14 13:50	KC	P4C0329
o-Toluidine	BRL	ug/L	14	2.9	1	8270D	3/26/14 13:50	KC	P4C0329
Parathion	BRL	ug/L	14	1.4	1	8270D	3/26/14 13:50	KC	P4C0329
p-Dimethylaminoazobenzene	BRL	ug/L	14	1.2	1	8270D	3/26/14 13:50	KC	P4C0329
Pentachlorobenzene	BRL	ug/L	14	3.8	1	8270D	3/26/14 13:50	KC	P4C0329
Pentachloroethane	BRL	ug/L	14	2.8	1	8270D	3/26/14 13:50	KC	P4C0329
Pentachloronitrobenzene	BRL	ug/L	14	1.7	1	8270D	3/26/14 13:50	KC	P4C0329
Pentachlorophenol	BRL	ug/L	14	2.2	1	8270D	3/19/14 18:26	KC	P4C0329
Phenacetin	BRL	ug/L	14	2.0	1	8270D	3/26/14 13:50	KC	P4C0329
Phenanthrene	BRL	ug/L	14	1.6	1	8270D	3/19/14 18:26	KC	P4C0329
Phenol	BRL	ug/L	14	2.9	1	8270D	3/19/14 18:26	KC	P4C0329
Phorate	BRL	ug/L	14	1.6	1	8270D	3/26/14 13:50	KC	P4C0329
Pronamide	BRL	ug/L	14	1.3	1	8270D	3/26/14 13:50	KC	P4C0329
Pyrene	BRL	ug/L	14	1.9	1	8270D	3/19/14 18:26	KC	P4C0329
Pyridine	BRL	ug/L	14	4.5	1	8270D	3/26/14 13:50	KC	P4C0329
Safrole	BRL	ug/L	14	4.1	1	8270D	3/26/14 13:50	KC	P4C0329
Sulfotepp	BRL	ug/L	14	1.4	1	8270D	3/26/14 13:50	KC	P4C0329
Thionazin	BRL	ug/L	14	1.4	1	8270D	3/26/14 13:50	KC	P4C0329

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*110 %*	*49-109*	*SR*
2-Fluorobiphenyl	*86 %*	*55-96*	
2-Fluorophenol	*64 %*	*27-74*	
Nitrobenzene-d5	*84 %*	*53-99*	

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lutions-IES, Inc.
ı: James P. Tiger
ı101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Phenol-d5				*38 %*	*11-52*	
			Terphenyl-d14				*107 %*	*42-133*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000012	1	*7470A	3/17/14 16:48	MEH	P4C0305
Antimony	BRL	mg/L	0.010	0.0011	1	*6010C	3/26/14 18:36	BGM	P4C0300
Arsenic	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:36	BGM	P4C0300
Barium	BRL	mg/L	0.010	0.0031	1	*6010C	3/26/14 18:36	BGM	P4C0300
Beryllium	BRL	mg/L	0.0020	0.00012	1	*6010C	3/26/14 18:36	BGM	P4C0300
Cadmium	BRL	mg/L	0.0010	0.000039	1	*6010C	3/26/14 18:36	BGM	P4C0300
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010C	3/26/14 18:36	BGM	P4C0300
Cobalt	BRL	mg/L	0.0050	0.00015	1	*6010C	3/26/14 18:36	BGM	P4C0300
Copper	BRL	mg/L	0.010	0.0010	1	*6010C	3/26/14 18:36	BGM	P4C0300
Lead	BRL	mg/L	0.0050	0.00039	1	*6010C	3/26/14 18:36	BGM	P4C0300
Nickel	BRL	mg/L	0.010	0.00024	1	*6010C	3/26/14 18:36	BGM	P4C0300
Selenium	BRL	mg/L	0.020	0.0037	1	*6010C	3/26/14 18:36	BGM	P4C0300
Silver	BRL	mg/L	0.0050	0.00012	1	*6010C	3/26/14 18:36	BGM	P4C0300
Thallium	BRL	mg/L	0.010	0.0016	1	*6010C	3/26/14 18:36	BGM	P4C0300
[illegible]	BRL	mg/L	0.050	0.00076	1	*6010C	3/26/14 18:36	BGM	P4C0300
[illegible]dium	BRL	mg/L	0.0050	0.00017	1	*6010C	3/26/14 18:36	BGM	P4C0300
[illegible]nc	BRL	mg/L	0.030	0.0025	1	*6010C	3/26/14 18:36	BGM	P4C0300
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 2:05	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 2:05	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 2:05	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:05	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 2:05	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 2:05	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 2:05	VHL	P4C0314
[illegible] Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 2:05	VHL	P4C0314

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 2:05	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 2:05	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 2:05	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 2:05	VHL	P4C0314
Acetone	**11**	**ug/L**	**5.0**	**0.62**	**1**	**8260B**	**3/16/14 2:05**	**VHL**	**P4C0314**
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/16/14 2:05	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 2:05	VHL	P4C0314
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 2:05	VHL	P4C0314
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 2:05	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:05	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 2:05	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 2:05	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 2:05	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 2:05	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 2:05	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 2:05	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:05	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 2:05	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 2:05	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 2:05	VHL	P4C0314
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 2:05	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 2:05	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:05	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 2:05	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/16/14 2:05	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 2:05	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 2:05	VHL	P4C0314
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 2:05	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 2:05	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	**2.7 J**	**ug/L**	**5.0**	**0.90**	**1**	**8260B**	**3/16/14 2:05**	**VHL**	**P4C0314**
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 2:05	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/16/14 2:05	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 2:05	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/16/14 2:05	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 2:05	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 2:05	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/16/14 2:05	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 2:05	VHL	P4C0314
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 2:05	VHL	P4C0314
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 2:05	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 2:05	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/16/14 2:05	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 2:05	VHL	P4C0314

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Laboratory Report

04/10/2014

'utions-IES, Inc.
ı: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Rinse Blank
Prism Sample ID: 4030246-07
Prism Work Order: 4030246
Time Collected: 03/11/14 17:10
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 2:05	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 2:05	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 2:05	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 2:05	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 2:05	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*109 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 4030246-08
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,3,5- Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/16/14 2:30	VHL	P4C0314
Isopropylbenzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/16/14 2:30	VHL	P4C0314
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	3/16/14 2:30	VHL	P4C0314
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:30	VHL	P4C0314
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/16/14 2:30	VHL	P4C0314
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 2:30	VHL	P4C0314
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/16/14 2:30	VHL	P4C0314
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/16/14 2:30	VHL	P4C0314
2-Chloroethyl vinyl ether	BRL	ug/L	2.0	0.22	1	8260B	3/16/14 2:30	VHL	P4C0314
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/16/14 2:30	VHL	P4C0314
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/16/14 2:30	VHL	P4C0314
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/16/14 2:30	VHL	P4C0314
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/16/14 2:30	VHL	P4C0314
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/16/14 2:30	VHL	P4C0314
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/16/14 2:30	VHL	P4C0314
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/16/14 2:30	VHL	P4C0314
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/16/14 2:30	VHL	P4C0314
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:30	VHL	P4C0314
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/16/14 2:30	VHL	P4C0314
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/16/14 2:30	VHL	P4C0314
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/16/14 2:30	VHL	P4C0314
Carbon disulfide	BRL ICV	ug/L	5.0	1.4	1	8260B	3/16/14 2:30	VHL	P4C0314
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 2:30	VHL	P4C0314
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/16/14 2:30	VHL	P4C0314
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:30	VHL	P4C0314
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	3/16/14 2:30	VHL	P4C0314
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/16/14 2:30	VHL	P4C0314
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	3/16/14 2:30	VHL	P4C0314

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Laboratory Report

04/10/2014

lutions-IES, Inc.
n: James P. Tiger
101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 4030246-08
Prism Work Order: 4030246
Time Collected: 03/11/14 00:00
Time Submitted: 03/12/14 15:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/16/14 2:30	VHL	P4C0314
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/16/14 2:30	VHL	P4C0314
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/16/14 2:30	VHL	P4C0314
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 2:30	VHL	P4C0314
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/16/14 2:30	VHL	P4C0314
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/16/14 2:30	VHL	P4C0314
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 2:30	VHL	P4C0314
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	3/16/14 2:30	VHL	P4C0314
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/16/14 2:30	VHL	P4C0314
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/16/14 2:30	VHL	P4C0314
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/16/14 2:30	VHL	P4C0314
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/16/14 2:30	VHL	P4C0314
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/16/14 2:30	VHL	P4C0314
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/16/14 2:30	VHL	P4C0314
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/16/14 2:30	VHL	P4C0314
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/16/14 2:30	VHL	P4C0314
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/16/14 2:30	VHL	P4C0314
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/16/14 2:30	VHL	P4C0314
ne	BRL	ug/L	0.50	0.047	1	8260B	3/16/14 2:30	VHL	P4C0314
utylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/16/14 2:30	VHL	P4C0314
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	3/16/14 2:30	VHL	P4C0314
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/16/14 2:30	VHL	P4C0314
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/16/14 2:30	VHL	P4C0314
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/16/14 2:30	VHL	P4C0314
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	3/16/14 2:30	VHL	P4C0314
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	3/16/14 2:30	VHL	P4C0314
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/16/14 2:30	VHL	P4C0314
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/16/14 2:30	VHL	P4C0314

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*110 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
Blank (P4C0314-BLK1)				Prepared & Analyzed: 03/15/14						
1,3,5- Trimethylbenzene	BRL	0.50	ug/L							
Isopropylbenzene	BRL	0.50	ug/L							
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chloroethyl vinyl ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							

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'utions-IES, Inc.
: James P. Tiger
. ,01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
Blank (P4C0314-BLK1)				Prepared & Analyzed: 03/15/14						
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
odichloromethane	BRL	0.50	ug/L							
.odichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
''lbenzene	BRL	0.50	ug/L							

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
Blank (P4C0314-BLK1)				Prepared & Analyzed: 03/15/14						
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl acetate	BRL	2.0	ug/L							

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- 'utions-IES, Inc.
James P. Tiger
. . 01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
Blank (P4C0314-BLK1)				Prepared & Analyzed: 03/15/14						
Vinyl chloride	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*54.2*		*ug/L*	*50.00*		*108*	*80-124*			
Surrogate: 4-Bromofluorobenzene	*54.2*		*ug/L*	*50.00*		*108*	*80-124*			
Surrogate: Dibromofluoromethane	*53.4*		*ug/L*	*50.00*		*107*	*75-129*			
Surrogate: Dibromofluoromethane	*53.4*		*ug/L*	*50.00*		*107*	*75-129*			
Surrogate: Toluene-d8	*55.5*		*ug/L*	*50.00*		*111*	*77-123*			
Surrogate: Toluene-d8	*55.5*		*ug/L*	*50.00*		*111*	*77-123*			
LCS (P4C0314-BS1)				Prepared & Analyzed: 03/15/14						
1,1-Dichloroethylene	23.1	0.50	ug/L	20.00		115	70-154			
1,1-Dichloroethylene	23.1	0.50	ug/L	20.00		115	70-154			
Benzene	22.9	0.50	ug/L	20.00		114	77-128			
Benzene	22.9	0.50	ug/L	20.00		114	77-128			
Chlorobenzene	21.3	0.50	ug/L	20.00		107	78-119			
Chlorobenzene	21.3	0.50	ug/L	20.00		107	78-119			
- 'ene	21.8	0.50	ug/L	20.00		109	76-131			
ne	21.8	0.50	ug/L	20.00		109	76-131			
,ilorothylene	19.9	0.50	ug/L	20.00		100	77-133			
Trichloroethylene	19.9	0.50	ug/L	20.00		100	77-133			
Xylenes, total	66.7	3.0	ug/L	60.00		111	77-133			
Surrogate: 4-Bromofluorobenzene	*51.8*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: 4-Bromofluorobenzene	*51.8*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.00*		*106*	*75-129*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*52.8*		*ug/L*	*50.00*		*106*	*77-123*			
Surrogate: Toluene-d8	*52.8*		*ug/L*	*50.00*		*106*	*77-123*			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
LCS Dup (P4C0314-BSD1)				Prepared & Analyzed: 03/15/14						
1,1-Dichloroethylene	20.3	0.50	ug/L	20.00		102	70-154	13	20	
1,1-Dichloroethylene	20.3	0.50	ug/L	20.00		102	70-154	13	20	
Benzene	22.4	0.50	ug/L	20.00		112	77-128	2	20	
Benzene	22.4	0.50	ug/L	20.00		112	77-128	2	20	
Chlorobenzene	21.0	0.50	ug/L	20.00		105	78-119	2	20	
Chlorobenzene	21.0	0.50	ug/L	20.00		105	78-119	2	20	
Toluene	21.4	0.50	ug/L	20.00		107	76-131	2	20	
Toluene	21.4	0.50	ug/L	20.00		107	76-131	2	20	
Trichloroethylene	19.6	0.50	ug/L	20.00		98	77-133	1	20	
Trichloroethylene	19.6	0.50	ug/L	20.00		98	77-133	1	20	
Xylenes, total	65.3	3.0	ug/L	60.00		109	77-133	2	20	
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*52.8*		*ug/L*	*50.00*		*106*	*77-123*			
Surrogate: Toluene-d8	*52.8*		*ug/L*	*50.00*		*106*	*77-123*			
Matrix Spike (P4C0314-MS1)		**Source: 4030246-01**		Prepared: 03/15/14 Analyzed: 03/16/14						
1,1-Dichloroethylene	185	5.0	ug/L	200.0	BRL	93	65-162			
1,1-Dichloroethylene	185	5.0	ug/L	200.0	BRL	93	65-162			
Benzene	208	5.0	ug/L	200.0	BRL	104	73-131			
Benzene	208	5.0	ug/L	200.0	BRL	104	73-131			
Chlorobenzene	198	5.0	ug/L	200.0	BRL	99	76-119			
Chlorobenzene	198	5.0	ug/L	200.0	BRL	99	76-119			
Toluene	200	5.0	ug/L	200.0	BRL	100	72-135			
Toluene	200	5.0	ug/L	200.0	BRL	100	72-135			
Trichloroethylene	178	5.0	ug/L	200.0	BRL	89	72-133			
Trichloroethylene	178	5.0	ug/L	200.0	BRL	89	72-133			
Xylenes, total	613	30	ug/L	600.0	BRL	102	66-144			
Surrogate: 4-Bromofluorobenzene	*519*		*ug/L*	*500.0*		*104*	*80-124*			
Surrogate: 4-Bromofluorobenzene	*519*		*ug/L*	*500.0*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*515*		*ug/L*	*500.0*		*103*	*75-129*			
Surrogate: Dibromofluoromethane	*515*		*ug/L*	*500.0*		*103*	*75-129*			
Surrogate: Toluene-d8	*525*		*ug/L*	*500.0*		*105*	*77-123*			
Surrogate: Toluene-d8	*525*		*ug/L*	*500.0*		*105*	*77-123*			

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Solutions-IES, Inc.
James P. Tiger
01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0314 - 5030B										
Matrix Spike Dup (P4C0314-MSD1)	**Source: 4030246-01**		Prepared: 03/15/14	Analyzed: 03/16/14						
1,1-Dichloroethylene	197	5.0	ug/L	200.0	BRL	98	65-162	6	20	
1,1-Dichloroethylene	197	5.0	ug/L	200.0	BRL	98	65-162	6	20	
Benzene	215	5.0	ug/L	200.0	BRL	108	73-131	3	17	
Benzene	215	5.0	ug/L	200.0	BRL	108	73-131	3	17	
Chlorobenzene	204	5.0	ug/L	200.0	BRL	102	76-119	3	20	
Chlorobenzene	204	5.0	ug/L	200.0	BRL	102	76-119	3	20	
Toluene	206	5.0	ug/L	200.0	BRL	103	72-135	3	18	
Toluene	206	5.0	ug/L	200.0	BRL	103	72-135	3	18	
Trichloroethylene	185	5.0	ug/L	200.0	BRL	92	72-133	4	17	
Trichloroethylene	185	5.0	ug/L	200.0	BRL	92	72-133	4	17	
Xylenes, total	633	30	ug/L	600.0	BRL	106	66-144	3	20	
Surrogate: 4-Bromofluorobenzene	*510*		*ug/L*	*500.0*		*102*	*80-124*			
Surrogate: 4-Bromofluorobenzene	*510*		*ug/L*	*500.0*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*508*		*ug/L*	*500.0*		*102*	*75-129*			
Surrogate: Dibromofluoromethane	*508*		*ug/L*	*500.0*		*102*	*75-129*			
Surrogate: Toluene-d8	*516*		*ug/L*	*500.0*		*103*	*77-123*			
Surrogate: Toluene-d8	*516*		*ug/L*	*500.0*		*103*	*77-123*			

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1101 Nowell Road
Raleigh, NC 27607

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Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Blank (P4C0329-BLK1)				Prepared: 03/18/14 Analyzed: 03/26/14						
1,2,4,5-Tetrachlorobenzene	BRL	10	ug/L							
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3,5-Trinitrobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,3-Dinitrobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1,4-Naphthoquinone	BRL	10	ug/L							
1,4-Phenylenediamine	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
1-Naphthylamine	BRL	10	ug/L							
2,3,4,6-Tetrachlorophenol	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dichlorophenol	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Acetylaminofluorene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Naphthylamine	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							

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: James P. Tiger
.01 Nowell Road
Raleigh, NC 27607

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Prism Work Order: 4030246
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Blank (P4C0329-BLK1)				Prepared: 03/18/14 Analyzed: 03/26/14						
2-Picoline	BRL	10	ug/L							
3,3'-Dimethylbenzidine	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Methylcholanthrene	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Aminobiphenyl	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
'oroaniline	BRL	10	ug/L							
.orophenyl phenyl ether	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
4-Nitroquinoline-n-oxide	BRL	10	ug/L							
5-Nitro-o-toluidine	BRL	10	ug/L							
7,12-Dimethylbenz(a)anthracene	BRL	10	ug/L							
a,a-Dimethylphenethylamine	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Acetophenone	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Aramite	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							

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Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Blank (P4C0329-BLK1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chlorobenzilate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Diallate	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethoate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Dinoseb	BRL	10	ug/L							
Diphenylamine	BRL	10	ug/L							
Disulfoton	BRL	10	ug/L							
Ethyl Methanesulfonate	BRL	10	ug/L							
Famphur	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							

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-lutions-IES, Inc.
James P. Tiger
J1 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Blank (P4C0329-BLK1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Hexachlorophene	BRL	1000	ug/L							
Hexachloropropene	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isodrin	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Isosafrole	BRL	10	ug/L							
Kepone	BRL	10	ug/L							
Methapyrilene	BRL	50	ug/L							
Methyl Methanesulfonate	BRL	10	ug/L							
-l parathion	BRL	10	ug/L							
-halene	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodibutylamine	BRL	10	ug/L							
N-Nitrosodiethylamine	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
N-Nitrosomethylethylamine	BRL	10	ug/L							
N-Nitrosomorpholine	BRL	10	ug/L							
N-Nitrosopiperidine	BRL	10	ug/L							
N-Nitrosopyrrolidine	BRL	10	ug/L							
O,O,O-Triethyl phosphorothioate	BRL	10	ug/L							
o-Toluidine	BRL	10	ug/L							
Parathion	BRL	10	ug/L							
p-Dimethylaminoazobenzene	BRL	10	ug/L							
Pentachlorobenzene	BRL	10	ug/L							
Pentachloroethane	BRL	10	ug/L							
Pentachloronitrobenzene	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenacetin	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
-nol	BRL	10	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Blank (P4C0329-BLK1)				Prepared: 03/18/14 Analyzed: 03/26/14						
Phenol	BRL	10	ug/L							
Phorate	BRL	10	ug/L							
Pronamide	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Pyridine	BRL	10	ug/L							
Safrole	BRL	10	ug/L							
Sulfotepp	BRL	10	ug/L							
Thionazin	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*102*		*ug/L*	*100.0*		*102*	*49-109*			
Surrogate: 2,4,6-Tribromophenol	*102*		*ug/L*	*100.0*		*102*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*41.9*		*ug/L*	*50.00*		*84*	*55-96*			
Surrogate: 2-Fluorobiphenyl	*41.9*		*ug/L*	*50.00*		*84*	*55-96*			
Surrogate: 2-Fluorophenol	*51.2*		*ug/L*	*100.0*		*51*	*27-74*			
Surrogate: 2-Fluorophenol	*51.2*		*ug/L*	*100.0*		*51*	*27-74*			
Surrogate: Nitrobenzene-d5	*40.6*		*ug/L*	*50.00*		*81*	*53-99*			
Surrogate: Nitrobenzene-d5	*40.6*		*ug/L*	*50.00*		*81*	*53-99*			
Surrogate: Phenol-d5	*29.8*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Phenol-d5	*29.8*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*51.3*		*ug/L*	*50.00*		*103*	*42-133*			
Surrogate: Terphenyl-d14	*51.3*		*ug/L*	*50.00*		*103*	*42-133*			
LCS (P4C0329-BS1)				Prepared: 03/18/14 Analyzed: 03/19/14						
1,2,4-Trichlorobenzene	36.2	10	ug/L	50.00		72	45-103			
1,2,4-Trichlorobenzene	36.2	10	ug/L	50.00		72	45-103			
1,2-Dichlorobenzene	35.2	10	ug/L	50.00		70	43-100			
1,2-Dichlorobenzene	35.2	10	ug/L	50.00		70	43-100			
1,3-Dichlorobenzene	32.8	10	ug/L	50.00		66	42-98			
1,3-Dichlorobenzene	32.8	10	ug/L	50.00		66	42-98			
1,4-Dichlorobenzene	34.0	10	ug/L	50.00		68	42-100			
1,4-Dichlorobenzene	34.0	10	ug/L	50.00		68	42-100			
1-Methylnaphthalene	42.4	10	ug/L	50.00		85	45-135			
1-Methylnaphthalene	42.4	10	ug/L	50.00		85	45-135			
2,4,5-Trichlorophenol	43.8	10	ug/L	50.00		88	66-120			
2,4,5-Trichlorophenol	43.8	10	ug/L	50.00		88	66-120			
2,4,6-Trichlorophenol	44.4	10	ug/L	50.00		89	62-121			
2,4,6-Trichlorophenol	44.4	10	ug/L	50.00		89	62-121			
2,4-Dichlorophenol	41.1	10	ug/L	50.00		82	58-113			
2,4-Dichlorophenol	41.1	10	ug/L	50.00		82	58-113			
2,4-Dimethylphenol	40.2	10	ug/L	50.00		80	42-120			
2,4-Dimethylphenol	40.2	10	ug/L	50.00		80	42-120			
2,4-Dinitrophenol	31.6	10	ug/L	50.00		63	27-129			
2,4-Dinitrophenol	31.6	10	ug/L	50.00		63	27-129			
2,4-Dinitrotoluene	40.1	10	ug/L	50.00		80	62-136			
2,4-Dinitrotoluene	40.1	10	ug/L	50.00		80	62-136			
2,6-Dinitrotoluene	39.6	10	ug/L	50.00		79	64-129			
2,6-Dinitrotoluene	39.6	10	ug/L	50.00		79	64-129			

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Solutions-IES, Inc.
: James P. Tiger
01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS (P4C0329-BS1)				Prepared: 03/18/14	Analyzed: 03/19/14					
2-Chloronaphthalene	44.3	10	ug/L	50.00		89	38-141			
2-Chloronaphthalene	44.3	10	ug/L	50.00		89	38-141			
2-Chlorophenol	39.6	10	ug/L	50.00		79	49-107			
2-Chlorophenol	39.6	10	ug/L	50.00		79	49-107			
2-Methylnaphthalene	43.2	10	ug/L	50.00		86	55-112			
2-Methylnaphthalene	43.2	10	ug/L	50.00		86	55-112			
2-Methylphenol	34.9	10	ug/L	50.00		70	40-106			
2-Methylphenol	34.9	10	ug/L	50.00		70	40-106			
2-Nitroaniline	43.7	10	ug/L	50.00		87	65-122			
2-Nitroaniline	43.7	10	ug/L	50.00		87	65-122			
2-Nitrophenol	42.8	10	ug/L	50.00		86	57-115			
2-Nitrophenol	42.8	10	ug/L	50.00		86	57-115			
3,3'-Dichlorobenzidine	42.6	10	ug/L	50.00		85	58-139			
3,3'-Dichlorobenzidine	42.6	10	ug/L	50.00		85	58-139			
3/4-Methylphenol	31.7	10	ug/L	50.00		63	34-101			
3/4-Methylphenol	31.7	10	ug/L	50.00		63	34-101			
3-Nitroaniline	43.6	10	ug/L	50.00		87	52-155			
oaniline	43.6	10	ug/L	50.00		87	52-155			
initro-2-methylphenol	49.7	10	ug/L	50.00		99	49-138			
4,6-Dinitro-2-methylphenol	49.7	10	ug/L	50.00		99	49-138			
4-Bromophenyl phenyl ether	50.4	10	ug/L	50.00		101	63-135			
4-Bromophenyl phenyl ether	50.4	10	ug/L	50.00		101	63-135			
4-Chloro-3-methylphenol	39.5	10	ug/L	50.00		79	33-149			
4-Chloro-3-methylphenol	39.5	10	ug/L	50.00		79	33-149			
4-Chloroaniline	45.3	10	ug/L	50.00		91	44-163			
4-Chloroaniline	45.3	10	ug/L	50.00		91	44-163			
4-Chlorophenyl phenyl ether	48.6	10	ug/L	50.00		97	63-129			
4-Chlorophenyl phenyl ether	48.6	10	ug/L	50.00		97	63-129			
4-Nitroaniline	46.4	10	ug/L	50.00		93	63-147			
4-Nitroaniline	46.4	10	ug/L	50.00		93	63-147			
4-Nitrophenol	17.6	10	ug/L	50.00		35	10-77			
4-Nitrophenol	17.6	10	ug/L	50.00		35	10-77			
Acenaphthene	44.7	10	ug/L	50.00		89	64-118			
Acenaphthene	44.7	10	ug/L	50.00		89	64-118			
Acenaphthylene	43.8	10	ug/L	50.00		88	65-119			
Acenaphthylene	43.8	10	ug/L	50.00		88	65-119			
Acetophenone	42.8	10	ug/L	50.00		86	57-116			
Aniline	36.6	10	ug/L	50.00		73	12-197			
Aniline	36.6	10	ug/L	50.00		73	12-197			
Anthracene	50.2	10	ug/L	50.00		100	69-134			
Anthracene	50.2	10	ug/L	50.00		100	69-134			
Azobenzene	44.8	10	ug/L	50.00		90	56-129			
Benzo(a)anthracene	48.4	10	ug/L	50.00		97	71-125			
Benzo(a)anthracene	48.4	10	ug/L	50.00		97	71-125			
Benzo(a)pyrene	49.2	10	ug/L	50.00		98	67-135			
Benzo(a)pyrene	49.2	10	ug/L	50.00		98	67-135			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS (P4C0329-BS1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Benzo(b)fluoranthene	49.4	10	ug/L	50.00		99	56-145			
Benzo(b)fluoranthene	49.4	10	ug/L	50.00		99	56-145			
Benzo(g,h,i)perylene	48.2	10	ug/L	50.00		96	44-149			
Benzo(g,h,i)perylene	48.2	10	ug/L	50.00		96	44-149			
Benzo(k)fluoranthene	47.4	10	ug/L	50.00		95	65-138			
Benzo(k)fluoranthene	47.4	10	ug/L	50.00		95	65-138			
Benzoic Acid	BRL	100	ug/L	50.00			10-125			P
Benzoic Acid	BRL	100	ug/L	50.00			10-125			P
Benzyl alcohol	35.9	10	ug/L	50.00		72	35-111			
Benzyl alcohol	35.9	10	ug/L	50.00		72	35-111			
bis(2-Chloroethoxy)methane	44.2	10	ug/L	50.00		88	49-126			
bis(2-Chloroethoxy)methane	44.2	10	ug/L	50.00		88	49-126			
Bis(2-Chloroethyl)ether	48.9	10	ug/L	50.00		98	47-124			
Bis(2-Chloroethyl)ether	48.9	10	ug/L	50.00		98	47-124			
Bis(2-chloroisopropyl)ether	43.0	10	ug/L	50.00		86	42-126			
Bis(2-chloroisopropyl)ether	43.0	10	ug/L	50.00		86	42-126			
Bis(2-Ethylhexyl)phthalate	45.8	10	ug/L	50.00		92	59-139			
Bis(2-Ethylhexyl)phthalate	45.8	10	ug/L	50.00		92	59-139			
Butyl benzyl phthalate	44.7	10	ug/L	50.00		89	67-133			
Butyl benzyl phthalate	44.7	10	ug/L	50.00		89	67-133			
Chrysene	47.9	10	ug/L	50.00		96	64-124			
Chrysene	47.9	10	ug/L	50.00		96	64-124			
Dibenzo(a,h)anthracene	50.0	10	ug/L	50.00		100	49-144			
Dibenzo(a,h)anthracene	50.0	10	ug/L	50.00		100	49-144			
Dibenzofuran	42.7	10	ug/L	50.00		85	68-113			
Dibenzofuran	42.7	10	ug/L	50.00		85	68-113			
Diethyl phthalate	45.7	10	ug/L	50.00		91	70-124			
Diethyl phthalate	45.7	10	ug/L	50.00		91	70-124			
Dimethyl phthalate	45.1	10	ug/L	50.00		90	71-117			
Dimethyl phthalate	45.1	10	ug/L	50.00		90	71-117			
Di-n-butyl phthalate	46.9	10	ug/L	50.00		94	69-128			
Di-n-butyl phthalate	46.9	10	ug/L	50.00		94	69-128			
Di-n-octyl phthalate	46.0	10	ug/L	50.00		92	52-150			
Di-n-octyl phthalate	46.0	10	ug/L	50.00		92	52-150			
Fluoranthene	49.7	10	ug/L	50.00		99	66-135			
Fluoranthene	49.7	10	ug/L	50.00		99	66-135			
Fluorene	45.7	10	ug/L	50.00		91	67-124			
Fluorene	45.7	10	ug/L	50.00		91	67-124			
Hexachlorobenzene	45.0	10	ug/L	50.00		90	62-124			
Hexachlorobenzene	45.0	10	ug/L	50.00		90	62-124			
Hexachlorobutadiene	35.1	10	ug/L	50.00		70	42-105			
Hexachlorobutadiene	35.1	10	ug/L	50.00		70	42-105			
Hexachlorocyclopentadiene	47.8	10	ug/L	50.00		96	32-117			
Hexachlorocyclopentadiene	47.8	10	ug/L	50.00		96	32-117			
Hexachloroethane	32.2	10	ug/L	50.00		64	40-99			
Hexachloroethane	32.2	10	ug/L	50.00		64	40-99			

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'utions-IES, Inc.
: James P. Tiger
. ,01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS (P4C0329-BS1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Indeno(1,2,3-cd)pyrene	49.0	10	ug/L	50.00		98	40-150			
Indeno(1,2,3-cd)pyrene	49.0	10	ug/L	50.00		98	40-150			
Isophorone	37.4	10	ug/L	50.00		75	54-125			
Isophorone	37.4	10	ug/L	50.00		75	54-125			
Naphthalene	41.2	10	ug/L	50.00		82	54-111			
Naphthalene	41.2	10	ug/L	50.00		82	54-111			
Nitrobenzene	36.4	10	ug/L	50.00		73	51-117			
Nitrobenzene	36.4	10	ug/L	50.00		73	51-117			
N-Nitrosodimethylamine	67.6	10	ug/L	50.00		135	10-119			LH
N-Nitroso-di-n-propylamine	41.8	10	ug/L	50.00		84	55-115			
N-Nitroso-di-n-propylamine	41.8	10	ug/L	50.00		84	55-115			
N-Nitrosodiphenylamine	44.9	10	ug/L	50.00		90	70-152			
N-Nitrosodiphenylamine	44.9	10	ug/L	50.00		90	70-152			
N-Nitrosomorpholine	38.4	10	ug/L	50.00		77	45-135			
Pentachlorophenol	50.7	10	ug/L	50.00		101	23-139			
Pentachlorophenol	50.7	10	ug/L	50.00		101	23-139			
Phenanthrene	47.8	10	ug/L	50.00		96	68-128			
anthrene	47.8	10	ug/L	50.00		96	68-128			
ol	17.4	10	ug/L	50.00		35	12-58			
Phenol	17.4	10	ug/L	50.00		35	12-58			
Pyrene	48.1	10	ug/L	50.00		96	62-139			
Pyrene	48.1	10	ug/L	50.00		96	62-139			
Pyridine	26.9	10	ug/L	50.00		54	10-53			LH
Surrogate: 2,4,6-Tribromophenol	*106*		*ug/L*	*100.0*		*106*	*49-109*			
Surrogate: 2,4,6-Tribromophenol	*106*		*ug/L*	*100.0*		*106*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*43.2*		*ug/L*	*50.00*		*86*	*55-96*			
Surrogate: 2-Fluorobiphenyl	*43.2*		*ug/L*	*50.00*		*86*	*55-96*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*27-74*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*27-74*			
Surrogate: Nitrobenzene-d5	*41.7*		*ug/L*	*50.00*		*83*	*53-99*			
Surrogate: Nitrobenzene-d5	*41.7*		*ug/L*	*50.00*		*83*	*53-99*			
Surrogate: Phenol-d5	*32.4*		*ug/L*	*100.0*		*32*	*11-52*			
Surrogate: Phenol-d5	*32.4*		*ug/L*	*100.0*		*32*	*11-52*			
Surrogate: Terphenyl-d14	*48.2*		*ug/L*	*50.00*		*96*	*42-133*			
Surrogate: Terphenyl-d14	*48.2*		*ug/L*	*50.00*		*96*	*42-133*			

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1101 Nowell Road
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Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS Dup (P4C0329-BSD1)				Prepared: 03/18/14 Analyzed: 03/19/14						
1,2,4-Trichlorobenzene	40.8	10	ug/L	50.00		82	45-103	12	20	
1,2,4-Trichlorobenzene	40.8	10	ug/L	50.00		82	45-103	12	20	
1,2-Dichlorobenzene	37.0	10	ug/L	50.00		74	43-100	5	20	
1,2-Dichlorobenzene	37.0	10	ug/L	50.00		74	43-100	5	20	
1,3-Dichlorobenzene	34.2	10	ug/L	50.00		68	42-98	4	20	
1,3-Dichlorobenzene	34.2	10	ug/L	50.00		68	42-98	4	20	
1,4-Dichlorobenzene	36.0	10	ug/L	50.00		72	42-100	6	20	
1,4-Dichlorobenzene	36.0	10	ug/L	50.00		72	42-100	6	20	
1-Methylnaphthalene	48.0	10	ug/L	50.00		96	45-135	12	20	
1-Methylnaphthalene	48.0	10	ug/L	50.00		96	45-135	12	20	
2,4,5-Trichlorophenol	47.5	10	ug/L	50.00		95	66-120	8	20	
2,4,5-Trichlorophenol	47.5	10	ug/L	50.00		95	66-120	8	20	
2,4,6-Trichlorophenol	46.3	10	ug/L	50.00		93	62-121	4	20	
2,4,6-Trichlorophenol	46.3	10	ug/L	50.00		93	62-121	4	20	
2,4-Dichlorophenol	46.2	10	ug/L	50.00		92	58-113	12	20	
2,4-Dichlorophenol	46.2	10	ug/L	50.00		92	58-113	12	20	
2,4-Dimethylphenol	46.1	10	ug/L	50.00		92	42-120	14	20	
2,4-Dimethylphenol	46.1	10	ug/L	50.00		92	42-120	14	20	
2,4-Dinitrophenol	16.4	10	ug/L	50.00		33	27-129	63	20	D
2,4-Dinitrophenol	16.4	10	ug/L	50.00		33	27-129	63	20	D
2,4-Dinitrotoluene	45.8	10	ug/L	50.00		92	62-136	13	20	
2,4-Dinitrotoluene	45.8	10	ug/L	50.00		92	62-136	13	20	
2,6-Dinitrotoluene	45.5	10	ug/L	50.00		91	64-129	14	20	
2,6-Dinitrotoluene	45.5	10	ug/L	50.00		91	64-129	14	20	
2-Chloronaphthalene	50.1	10	ug/L	50.00		100	38-141	12	20	
2-Chloronaphthalene	50.1	10	ug/L	50.00		100	38-141	12	20	
2-Chlorophenol	41.9	10	ug/L	50.00		84	49-107	6	20	
2-Chlorophenol	41.9	10	ug/L	50.00		84	49-107	6	20	
2-Methylnaphthalene	48.7	10	ug/L	50.00		97	55-112	12	20	
2-Methylnaphthalene	48.7	10	ug/L	50.00		97	55-112	12	20	
2-Methylphenol	37.9	10	ug/L	50.00		76	40-106	8	20	
2-Methylphenol	37.9	10	ug/L	50.00		76	40-106	8	20	
2-Nitroaniline	49.6	10	ug/L	50.00		99	65-122	13	20	
2-Nitroaniline	49.6	10	ug/L	50.00		99	65-122	13	20	
2-Nitrophenol	46.1	10	ug/L	50.00		92	57-115	7	20	
2-Nitrophenol	46.1	10	ug/L	50.00		92	57-115	7	20	
3,3'-Dichlorobenzidine	50.2	10	ug/L	50.00		100	58-139	16	20	
3,3'-Dichlorobenzidine	50.2	10	ug/L	50.00		100	58-139	16	20	
3/4-Methylphenol	35.4	10	ug/L	50.00		71	34-101	11	20	
3/4-Methylphenol	35.4	10	ug/L	50.00		71	34-101	11	20	
3-Nitroaniline	48.9	10	ug/L	50.00		98	52-155	11	20	
3-Nitroaniline	48.9	10	ug/L	50.00		98	52-155	11	20	
4,6-Dinitro-2-methylphenol	33.4	10	ug/L	50.00		67	49-138	39	20	D
4,6-Dinitro-2-methylphenol	33.4	10	ug/L	50.00		67	49-138	39	20	D
4-Bromophenyl phenyl ether	57.8	10	ug/L	50.00		116	63-135	14	20	
4-Bromophenyl phenyl ether	57.8	10	ug/L	50.00		116	63-135	14	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS Dup (P4C0329-BSD1)				Prepared: 03/18/14	Analyzed: 03/19/14					
4-Chloro-3-methylphenol	48.5	10	ug/L	50.00		97	33-149	20	20	D
4-Chloro-3-methylphenol	48.5	10	ug/L	50.00		97	33-149	20	20	
4-Chloroaniline	51.6	10	ug/L	50.00		103	44-163	13	20	
4-Chloroaniline	51.6	10	ug/L	50.00		103	44-163	13	20	
4-Chlorophenyl phenyl ether	55.7	10	ug/L	50.00		111	63-129	14	20	
4-Chlorophenyl phenyl ether	55.7	10	ug/L	50.00		111	63-129	14	20	
4-Nitroaniline	52.1	10	ug/L	50.00		104	63-147	12	20	
4-Nitroaniline	52.1	10	ug/L	50.00		104	63-147	12	20	
4-Nitrophenol	14.0	10	ug/L	50.00		28	10-77	23	20	D
4-Nitrophenol	14.0	10	ug/L	50.00		28	10-77	23	20	D
Acenaphthene	50.7	10	ug/L	50.00		101	64-118	13	20	
Acenaphthene	50.7	10	ug/L	50.00		101	64-118	13	20	
Acenaphthylene	50.8	10	ug/L	50.00		102	65-119	15	20	
Acenaphthylene	50.8	10	ug/L	50.00		102	65-119	15	20	
Acetophenone	46.5	10	ug/L	50.00		93	57-116	8	20	
Aniline	44.2	10	ug/L	50.00		88	12-197	19	20	
Aniline	44.2	10	ug/L	50.00		88	12-197	19	20	
:acene	56.9	10	ug/L	50.00		114	69-134	12	20	
acene	56.9	10	ug/L	50.00		114	69-134	12	20	
Azobenzene	52.1	10	ug/L	50.00		104	56-129	15	20	
Benzo(a)anthracene	55.1	10	ug/L	50.00		110	71-125	13	20	
Benzo(a)anthracene	55.1	10	ug/L	50.00		110	71-125	13	20	
Benzo(a)pyrene	56.3	10	ug/L	50.00		113	67-135	13	20	
Benzo(a)pyrene	56.3	10	ug/L	50.00		113	67-135	13	20	
Benzo(b)fluoranthene	56.8	10	ug/L	50.00		114	56-145	14	20	
Benzo(b)fluoranthene	56.8	10	ug/L	50.00		114	56-145	14	20	
Benzo(g,h,i)perylene	55.2	10	ug/L	50.00		110	44-149	14	20	
Benzo(g,h,i)perylene	55.2	10	ug/L	50.00		110	44-149	14	20	
Benzo(k)fluoranthene	53.3	10	ug/L	50.00		107	65-138	12	20	
Benzo(k)fluoranthene	53.3	10	ug/L	50.00		107	65-138	12	20	
Benzoic Acid	BRL	100	ug/L	50.00			10-125		20	P
Benzoic Acid	BRL	100	ug/L	50.00			10-125		20	P
Benzyl alcohol	40.1	10	ug/L	50.00		80	35-111	11	20	
Benzyl alcohol	40.1	10	ug/L	50.00		80	35-111	11	20	
bis(2-Chloroethoxy)methane	51.0	10	ug/L	50.00		102	49-126	14	20	
bis(2-Chloroethoxy)methane	51.0	10	ug/L	50.00		102	49-126	14	20	
Bis(2-Chloroethyl)ether	50.4	10	ug/L	50.00		101	47-124	3	20	
Bis(2-Chloroethyl)ether	50.4	10	ug/L	50.00		101	47-124	3	20	
Bis(2-chloroisopropyl)ether	46.9	10	ug/L	50.00		94	42-126	9	20	
Bis(2-chloroisopropyl)ether	46.9	10	ug/L	50.00		94	42-126	9	20	
Bis(2-Ethylhexyl)phthalate	52.2	10	ug/L	50.00		104	59-139	13	20	
Bis(2-Ethylhexyl)phthalate	52.2	10	ug/L	50.00		104	59-139	13	20	
Butyl benzyl phthalate	49.8	10	ug/L	50.00		100	67-133	11	20	
Butyl benzyl phthalate	49.8	10	ug/L	50.00		100	67-133	11	20	
Chrysene	54.6	10	ug/L	50.00		109	64-124	13	20	
-:-ysene	54.6	10	ug/L	50.00		109	64-124	13	20	

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS Dup (P4C0329-BSD1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Dibenzo(a,h)anthracene	56.9	10	ug/L	50.00		114	49-144	13	20	
Dibenzo(a,h)anthracene	56.9	10	ug/L	50.00		114	49-144	13	20	
Dibenzofuran	49.3	10	ug/L	50.00		99	68-113	14	20	
Dibenzofuran	49.3	10	ug/L	50.00		99	68-113	14	20	
Diethyl phthalate	52.6	10	ug/L	50.00		105	70-124	14	20	
Diethyl phthalate	52.6	10	ug/L	50.00		105	70-124	14	20	
Dimethyl phthalate	51.5	10	ug/L	50.00		103	71-117	13	20	
Dimethyl phthalate	51.5	10	ug/L	50.00		103	71-117	13	20	
Di-n-butyl phthalate	53.1	10	ug/L	50.00		106	69-128	12	20	
Di-n-butyl phthalate	53.1	10	ug/L	50.00		106	69-128	12	20	
Di-n-octyl phthalate	52.2	10	ug/L	50.00		104	52-150	13	20	
Di-n-octyl phthalate	52.2	10	ug/L	50.00		104	52-150	13	20	
Fluoranthene	55.2	10	ug/L	50.00		110	66-135	11	20	
Fluoranthene	55.2	10	ug/L	50.00		110	66-135	11	20	
Fluorene	52.7	10	ug/L	50.00		105	67-124	14	20	
Fluorene	52.7	10	ug/L	50.00		105	67-124	14	20	
Hexachlorobenzene	51.3	10	ug/L	50.00		103	62-124	13	20	
Hexachlorobenzene	51.3	10	ug/L	50.00		103	62-124	13	20	
Hexachlorobutadiene	38.2	10	ug/L	50.00		76	42-105	8	20	
Hexachlorobutadiene	38.2	10	ug/L	50.00		76	42-105	8	20	
Hexachlorocyclopentadiene	51.4	10	ug/L	50.00		103	32-117	7	20	
Hexachlorocyclopentadiene	51.4	10	ug/L	50.00		103	32-117	7	20	
Hexachloroethane	34.1	10	ug/L	50.00		68	40-99	6	20	
Hexachloroethane	34.1	10	ug/L	50.00		68	40-99	6	20	
Indeno(1,2,3-cd)pyrene	56.4	10	ug/L	50.00		113	40-150	14	20	
Indeno(1,2,3-cd)pyrene	56.4	10	ug/L	50.00		113	40-150	14	20	
Isophorone	43.4	10	ug/L	50.00		87	54-125	15	20	
Isophorone	43.4	10	ug/L	50.00		87	54-125	15	20	
Naphthalene	46.2	10	ug/L	50.00		92	54-111	11	20	
Naphthalene	46.2	10	ug/L	50.00		92	54-111	11	20	
Nitrobenzene	40.7	10	ug/L	50.00		81	51-117	11	20	
Nitrobenzene	40.7	10	ug/L	50.00		81	51-117	11	20	
N-Nitrosodimethylamine	73.9	10	ug/L	50.00		148	10-119	9	20	LH
N-Nitroso-di-n-propylamine	46.7	10	ug/L	50.00		93	55-115	11	20	
N-Nitroso-di-n-propylamine	46.7	10	ug/L	50.00		93	55-115	11	20	
N-Nitrosodiphenylamine	51.2	10	ug/L	50.00		102	70-152	13	20	
N-Nitrosodiphenylamine	51.2	10	ug/L	50.00		102	70-152	13	20	
N-Nitrosomorpholine	42.6	10	ug/L	50.00		85	45-135	10	20	
Pentachlorophenol	36.7	10	ug/L	50.00		73	23-139	32	20	D
Pentachlorophenol	36.7	10	ug/L	50.00		73	23-139	32	20	D
Phenanthrene	54.8	10	ug/L	50.00		110	68-128	14	20	
Phenanthrene	54.8	10	ug/L	50.00		110	68-128	14	20	
Phenol	18.8	10	ug/L	50.00		38	12-58	8	20	
Phenol	18.8	10	ug/L	50.00		38	12-58	8	20	
Pyrene	54.4	10	ug/L	50.00		109	62-139	12	20	
Pyrene	54.4	10	ug/L	50.00		109	62-139	12	20	

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'utions-IES, Inc.
: James P. Tiger
. .01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
LCS Dup (P4C0329-BSD1)				Prepared: 03/18/14 Analyzed: 03/19/14						
Pyridine	32.0	10	ug/L	50.00		64	10-53	17	20	LH
Surrogate: 2,4,6-Tribromophenol	*112*		*ug/L*	*100.0*		*112*	*49-109*			*SR*
Surrogate: 2,4,6-Tribromophenol	*112*		*ug/L*	*100.0*		*112*	*49-109*			*SR*
Surrogate: 2-Fluorobiphenyl	*48.1*		*ug/L*	*50.00*		*96*	*55-96*			*SR*
Surrogate: 2-Fluorobiphenyl	*48.1*		*ug/L*	*50.00*		*96*	*55-96*			
Surrogate: 2-Fluorophenol	*54.1*		*ug/L*	*100.0*		*54*	*27-74*			
Surrogate: 2-Fluorophenol	*54.1*		*ug/L*	*100.0*		*54*	*27-74*			
Surrogate: Nitrobenzene-d5	*46.5*		*ug/L*	*50.00*		*93*	*53-99*			
Surrogate: Nitrobenzene-d5	*46.5*		*ug/L*	*50.00*		*93*	*53-99*			
Surrogate: Phenol-d5	*33.7*		*ug/L*	*100.0*		*34*	*11-52*			
Surrogate: Phenol-d5	*33.7*		*ug/L*	*100.0*		*34*	*11-52*			
Surrogate: Terphenyl-d14	*52.2*		*ug/L*	*50.00*		*104*	*42-133*			
Surrogate: Terphenyl-d14	*52.2*		*ug/L*	*50.00*		*104*	*42-133*			
Matrix Spike (P4C0329-MS1)		**Source: 4030246-01**		Prepared: 03/18/14 Analyzed: 03/19/14						
1,2,4-Trichlorobenzene	92.3	23	ug/L	116.3	BRL	79	44-100			
1,2,4-Trichlorobenzene	92.3	23	ug/L	116.3	BRL	79	44-100			
1,2-Dichlorobenzene	87.0	23	ug/L	116.3	BRL	75	42-99			
chlorobenzene	87.0	23	ug/L	116.3	BRL	75	42-99			
Dichlorobenzene	80.7	23	ug/L	116.3	BRL	69	35-101			
1,3-Dichlorobenzene	80.7	23	ug/L	116.3	BRL	69	35-101			
1,4-Dichlorobenzene	84.3	23	ug/L	116.3	BRL	73	43-97			
1,4-Dichlorobenzene	84.3	23	ug/L	116.3	BRL	73	43-97			
1-Methylnaphthalene	107	23	ug/L	116.3	BRL	92	45-135			
1-Methylnaphthalene	107	23	ug/L	116.3	BRL	92	45-135			
2,4,5-Trichlorophenol	105	23	ug/L	116.3	BRL	91	51-122			
2,4,5-Trichlorophenol	105	23	ug/L	116.3	BRL	91	51-122			
2,4,6-Trichlorophenol	105	23	ug/L	116.3	BRL	90	46-117			
2,4,6-Trichlorophenol	105	23	ug/L	116.3	BRL	90	46-117			
2,4-Dichlorophenol	103	23	ug/L	116.3	BRL	89	42-108			
2,4-Dichlorophenol	103	23	ug/L	116.3	BRL	89	42-108			
2,4-Dimethylphenol	97.8	23	ug/L	116.3	BRL	84	13-122			
2,4-Dimethylphenol	97.8	23	ug/L	116.3	BRL	84	13-122			
2,4-Dinitrophenol	44.3	23	ug/L	116.3	BRL	38	10-166			
2,4-Dinitrophenol	44.3	23	ug/L	116.3	BRL	38	10-166			
2,4-Dinitrotoluene	98.0	23	ug/L	116.3	BRL	84	64-135			
2,4-Dinitrotoluene	98.0	23	ug/L	116.3	BRL	84	64-135			
2,6-Dinitrotoluene	98.4	23	ug/L	116.3	BRL	85	50-146			
2,6-Dinitrotoluene	98.4	23	ug/L	116.3	BRL	85	50-146			
2-Chloronaphthalene	112	23	ug/L	116.3	BRL	96	46-114			
2-Chloronaphthalene	112	23	ug/L	116.3	BRL	96	46-114			
2-Chlorophenol	93.4	23	ug/L	116.3	BRL	80	36-94			
2-Chlorophenol	93.4	23	ug/L	116.3	BRL	80	36-94			
2-Methylnaphthalene	107	23	ug/L	116.3	BRL	92	36-115			
2-Methylnaphthalene	107	23	ug/L	116.3	BRL	92	36-115			
2-Methylphenol	90.1	23	ug/L	116.3	BRL	78	27-92			
hylphenol	90.1	23	ug/L	116.3	BRL	78	27-92			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike (P4C0329-MS1)		**Source: 4030246-01**		Prepared: 03/18/14	Analyzed: 03/19/14					
2-Nitroaniline	104	23	ug/L	116.3	BRL	89	51-139			
2-Nitroaniline	104	23	ug/L	116.3	BRL	89	51-139			
2-Nitrophenol	98.5	23	ug/L	116.3	BRL	85	43-108			
2-Nitrophenol	98.5	23	ug/L	116.3	BRL	85	43-108			
3,3'-Dichlorobenzidine	105	23	ug/L	116.3	BRL	91	10-214			
3,3'-Dichlorobenzidine	105	23	ug/L	116.3	BRL	91	10-214			
3/4-Methylphenol	88.3	23	ug/L	116.3	BRL	76	22-84			
3/4-Methylphenol	88.3	23	ug/L	116.3	BRL	76	22-84			
3-Nitroaniline	105	23	ug/L	116.3	BRL	90	50-145			
3-Nitroaniline	105	23	ug/L	116.3	BRL	90	50-145			
4,6-Dinitro-2-methylphenol	89.4	23	ug/L	116.3	BRL	77	25-152			
4,6-Dinitro-2-methylphenol	89.4	23	ug/L	116.3	BRL	77	25-152			
4-Bromophenyl phenyl ether	123	23	ug/L	116.3	BRL	106	52-128			
4-Bromophenyl phenyl ether	123	23	ug/L	116.3	BRL	106	52-128			
4-Chloro-3-methylphenol	106	23	ug/L	116.3	BRL	91	44-110			
4-Chloro-3-methylphenol	106	23	ug/L	116.3	BRL	91	44-110			
4-Chloroaniline	105	23	ug/L	116.3	BRL	90	10-156			
4-Chloroaniline	105	23	ug/L	116.3	BRL	90	10-156			
4-Chlorophenyl phenyl ether	121	23	ug/L	116.3	BRL	104	55-125			
4-Chlorophenyl phenyl ether	121	23	ug/L	116.3	BRL	104	55-125			
4-Nitroaniline	113	23	ug/L	116.3	BRL	97	39-159			
4-Nitroaniline	113	23	ug/L	116.3	BRL	97	39-159			
4-Nitrophenol	53.3	23	ug/L	116.3	BRL	46	10-105			
4-Nitrophenol	53.3	23	ug/L	116.3	BRL	46	10-105			
Acenaphthene	112	23	ug/L	116.3	BRL	96	55-117			
Acenaphthene	112	23	ug/L	116.3	BRL	96	55-117			
Acenaphthylene	111	23	ug/L	116.3	BRL	96	52-121			
Acenaphthylene	111	23	ug/L	116.3	BRL	96	52-121			
Acetophenone	99.2	23	ug/L	116.3	BRL	85	45-135			
Aniline	89.9	23	ug/L	116.3	BRL	77	11-124			
Aniline	89.9	23	ug/L	116.3	BRL	77	11-124			
Anthracene	122	23	ug/L	116.3	BRL	105	60-136			
Anthracene	122	23	ug/L	116.3	BRL	105	60-136			
Azobenzene	112	23	ug/L	116.3	BRL	96	50-135			
Benzo(a)anthracene	112	23	ug/L	116.3	BRL	96	64-135			
Benzo(a)anthracene	112	23	ug/L	116.3	BRL	96	64-135			
Benzo(a)pyrene	120	23	ug/L	116.3	BRL	103	68-136			
Benzo(a)pyrene	120	23	ug/L	116.3	BRL	103	68-136			
Benzo(b)fluoranthene	120	23	ug/L	116.3	BRL	103	61-149			
Benzo(b)fluoranthene	120	23	ug/L	116.3	BRL	103	61-149			
Benzo(g,h,i)perylene	117	23	ug/L	116.3	BRL	101	47-151			
Benzo(g,h,i)perylene	117	23	ug/L	116.3	BRL	101	47-151			
Benzo(k)fluoranthene	114	23	ug/L	116.3	BRL	98	45-148			
Benzo(k)fluoranthene	114	23	ug/L	116.3	BRL	98	45-148			
Benzoic Acid	BRL	230	ug/L	116.3	BRL		10-125			P
Benzoic Acid	BRL	230	ug/L	116.3	BRL		10-125			P

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,,01 Nowell Road
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Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike (P4C0329-MS1)		**Source: 4030246-01**		Prepared: 03/18/14	Analyzed: 03/19/14					
Benzyl alcohol	93.4	23	ug/L	116.3	BRL	80	30-97			
Benzyl alcohol	93.4	23	ug/L	116.3	BRL	80	30-97			
bis(2-Chloroethoxy)methane	107	23	ug/L	116.3	BRL	92	43-119			
bis(2-Chloroethoxy)methane	107	23	ug/L	116.3	BRL	92	43-119			
Bis(2-Chloroethyl)ether	114	23	ug/L	116.3	BRL	98	36-115			
Bis(2-Chloroethyl)ether	114	23	ug/L	116.3	BRL	98	36-115			
Bis(2-chloroisopropyl)ether	100	23	ug/L	116.3	BRL	86	36-113			
Bis(2-chloroisopropyl)ether	100	23	ug/L	116.3	BRL	86	36-113			
Bis(2-Ethylhexyl)phthalate	105	23	ug/L	116.3	BRL	90	50-168			
Bis(2-Ethylhexyl)phthalate	105	23	ug/L	116.3	BRL	90	50-168			
Butyl benzyl phthalate	105	23	ug/L	116.3	BRL	91	52-166			
Butyl benzyl phthalate	105	23	ug/L	116.3	BRL	91	52-166			
Chrysene	119	23	ug/L	116.3	BRL	102	62-135			
Chrysene	119	23	ug/L	116.3	BRL	102	62-135			
Dibenzo(a,h)anthracene	119	23	ug/L	116.3	BRL	103	45-155			
Dibenzo(a,h)anthracene	119	23	ug/L	116.3	BRL	103	45-155			
Dibenzofuran	107	23	ug/L	116.3	BRL	92	58-119			
ızofuran	107	23	ug/L	116.3	BRL	92	58-119			
yl phthalate	111	23	ug/L	116.3	BRL	95	55-137			
Diethyl phthalate	111	23	ug/L	116.3	BRL	95	55-137			
Dimethyl phthalate	111	23	ug/L	116.3	BRL	95	46-135			
Dimethyl phthalate	111	23	ug/L	116.3	BRL	95	46-135			
Di-n-butyl phthalate	113	23	ug/L	116.3	BRL	97	53-141			
Di-n-butyl phthalate	113	23	ug/L	116.3	BRL	97	53-141			
Di-n-octyl phthalate	109	23	ug/L	116.3	BRL	94	48-166			
Di-n-octyl phthalate	109	23	ug/L	116.3	BRL	94	48-166			
Fluoranthene	118	23	ug/L	116.3	BRL	101	51-136			
Fluoranthene	118	23	ug/L	116.3	BRL	101	51-136			
Fluorene	115	23	ug/L	116.3	BRL	99	57-121			
Fluorene	115	23	ug/L	116.3	BRL	99	57-121			
Hexachlorobenzene	110	23	ug/L	116.3	BRL	95	55-131			
Hexachlorobenzene	110	23	ug/L	116.3	BRL	95	55-131			
Hexachlorobutadiene	91.0	23	ug/L	116.3	BRL	78	39-110			
Hexachlorobutadiene	91.0	23	ug/L	116.3	BRL	78	39-110			
Hexachlorocyclopentadiene	124	23	ug/L	116.3	BRL	106	26-122			
Hexachlorocyclopentadiene	124	23	ug/L	116.3	BRL	106	26-122			
Hexachloroethane	80.2	23	ug/L	116.3	BRL	69	37-98			
Hexachloroethane	80.2	23	ug/L	116.3	BRL	69	37-98			
Indeno(1,2,3-cd)pyrene	119	23	ug/L	116.3	BRL	102	14-177			
Indeno(1,2,3-cd)pyrene	119	23	ug/L	116.3	BRL	102	14-177			
Isophorone	92.1	23	ug/L	116.3	BRL	79	49-113			
Isophorone	92.1	23	ug/L	116.3	BRL	79	49-113			
Naphthalene	101	23	ug/L	116.3	BRL	87	38-109			
Naphthalene	101	23	ug/L	116.3	BRL	87	38-109			
Nitrobenzene	87.4	23	ug/L	116.3	BRL	75	34-117			
ıbenzene	87.4	23	ug/L	116.3	BRL	75	34-117			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike (P4C0329-MS1)	**Source: 4030246-01**			Prepared: 03/18/14	Analyzed: 03/19/14					
N-Nitrosodimethylamine	202	23	ug/L	116.3	BRL	173	10-119			M
N-Nitroso-di-n-propylamine	98.5	23	ug/L	116.3	BRL	85	44-115			
N-Nitroso-di-n-propylamine	98.5	23	ug/L	116.3	BRL	85	44-115			
N-Nitrosodiphenylamine	110	23	ug/L	116.3	BRL	94	57-156			
N-Nitrosodiphenylamine	110	23	ug/L	116.3	BRL	94	57-156			
N-Nitrosomorpholine	95.7	23	ug/L	116.3	BRL	82	45-135			
Pentachlorophenol	93.5	23	ug/L	116.3	BRL	80	17-167			
Pentachlorophenol	93.5	23	ug/L	116.3	BRL	80	17-167			
Phenanthrene	115	23	ug/L	116.3	BRL	99	62-131			
Phenanthrene	115	23	ug/L	116.3	BRL	99	62-131			
Phenol	60.0	23	ug/L	116.3	BRL	52	10-68			
Phenol	60.0	23	ug/L	116.3	BRL	52	10-68			
Pyrene	113	23	ug/L	116.3	BRL	97	46-156			
Pyrene	113	23	ug/L	116.3	BRL	97	46-156			
Pyridine	84.0	23	ug/L	116.3	BRL	72	10-92			
Surrogate: 2,4,6-Tribromophenol	*244*		*ug/L*	*232.6*		*105*	*49-109*			
Surrogate: 2,4,6-Tribromophenol	*244*		*ug/L*	*232.6*		*105*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*116.3*		*90*	*55-96*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*116.3*		*90*	*55-96*			
Surrogate: 2-Fluorophenol	*159*		*ug/L*	*232.6*		*68*	*27-74*			
Surrogate: 2-Fluorophenol	*159*		*ug/L*	*232.6*		*68*	*27-74*			
Surrogate: Nitrobenzene-d5	*97.8*		*ug/L*	*116.3*		*84*	*53-99*			
Surrogate: Nitrobenzene-d5	*97.8*		*ug/L*	*116.3*		*84*	*53-99*			
Surrogate: Phenol-d5	*115*		*ug/L*	*232.6*		*50*	*11-52*			
Surrogate: Phenol-d5	*115*		*ug/L*	*232.6*		*50*	*11-52*			
Surrogate: Terphenyl-d14	*111*		*ug/L*	*116.3*		*96*	*42-133*			
Surrogate: Terphenyl-d14	*111*		*ug/L*	*116.3*		*96*	*42-133*			

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'utions-IES, Inc.
James P. Tiger
. .J1 Nowell Road
Raleigh, NC 27607

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike Dup (P4C0329-MSD1)		**Source: 4030246-01**		Prepared: 03/18/14 Analyzed: 03/19/14						
1,2,4-Trichlorobenzene	76.9	23	ug/L	116.3	BRL	66	44-100	18	30	
1,2,4-Trichlorobenzene	76.9	23	ug/L	116.3	BRL	66	44-100	18	30	
1,2-Dichlorobenzene	70.0	23	ug/L	116.3	BRL	60	42-99	22	34	
1,2-Dichlorobenzene	70.0	23	ug/L	116.3	BRL	60	42-99	22	34	
1,3-Dichlorobenzene	65.1	23	ug/L	116.3	BRL	56	35-101	21	36	
1,3-Dichlorobenzene	65.1	23	ug/L	116.3	BRL	56	35-101	21	36	
1,4-Dichlorobenzene	68.5	23	ug/L	116.3	BRL	59	43-97	21	35	
1,4-Dichlorobenzene	68.5	23	ug/L	116.3	BRL	59	43-97	21	35	
1-Methylnaphthalene	91.0	23	ug/L	116.3	BRL	78	45-135	16	50	
1-Methylnaphthalene	91.0	23	ug/L	116.3	BRL	78	45-135	16	50	
2,4,5-Trichlorophenol	93.4	23	ug/L	116.3	BRL	80	51-122	12	22	
2,4,5-Trichlorophenol	93.4	23	ug/L	116.3	BRL	80	51-122	12	22	
2,4,6-Trichlorophenol	94.7	23	ug/L	116.3	BRL	81	46-117	10	30	
2,4,6-Trichlorophenol	94.7	23	ug/L	116.3	BRL	81	46-117	10	30	
2,4-Dichlorophenol	84.9	23	ug/L	116.3	BRL	73	42-108	20	33	
2,4-Dichlorophenol	84.9	23	ug/L	116.3	BRL	73	42-108	20	33	
2.4-Dimethylphenol	75.6	23	ug/L	116.3	BRL	65	13-122	26	36	
imethylphenol	75.6	23	ug/L	116.3	BRL	65	13-122	26	36	
.initrophenol	73.2	23	ug/L	116.3	BRL	63	10-166	49	41	D
2,4-Dinitrophenol	73.2	23	ug/L	116.3	BRL	63	10-166	49	41	D
2,4-Dinitrotoluene	92.7	23	ug/L	116.3	BRL	80	64-135	6	24	
2,4-Dinitrotoluene	92.7	23	ug/L	116.3	BRL	80	64-135	6	24	
2,6-Dinitrotoluene	90.7	23	ug/L	116.3	BRL	78	50-146	8	28	
2,6-Dinitrotoluene	90.7	23	ug/L	116.3	BRL	78	50-146	8	28	
2-Chloronaphthalene	97.1	23	ug/L	116.3	BRL	84	46-114	14	30	
2-Chloronaphthalene	97.1	23	ug/L	116.3	BRL	84	46-114	14	30	
2-Chlorophenol	75.5	23	ug/L	116.3	BRL	65	36-94	21	37	
2-Chlorophenol	75.5	23	ug/L	116.3	BRL	65	36-94	21	37	
2-Methylnaphthalene	91.9	23	ug/L	116.3	BRL	79	36-115	15	33	
2-Methylnaphthalene	91.9	23	ug/L	116.3	BRL	79	36-115	15	33	
2-Methylphenol	70.9	23	ug/L	116.3	BRL	61	27-92	24	36	
2-Methylphenol	70.9	23	ug/L	116.3	BRL	61	27-92	24	36	
2-Nitroaniline	96.8	23	ug/L	116.3	BRL	83	51-139	7	24	
2-Nitroaniline	96.8	23	ug/L	116.3	BRL	83	51-139	7	24	
2-Nitrophenol	85.4	23	ug/L	116.3	BRL	73	43-108	14	33	
2-Nitrophenol	85.4	23	ug/L	116.3	BRL	73	43-108	14	33	
3,3'-Dichlorobenzidine	67.6	23	ug/L	116.3	BRL	58	10-214	44	34	D
3,3'-Dichlorobenzidine	67.6	23	ug/L	116.3	BRL	58	10-214	44	34	D
3/4-Methylphenol	67.7	23	ug/L	116.3	BRL	58	22-84	27	30	
3/4-Methylphenol	67.7	23	ug/L	116.3	BRL	58	22-84	27	30	
3-Nitroaniline	95.4	23	ug/L	116.3	BRL	82	50-145	10	24	
3-Nitroaniline	95.4	23	ug/L	116.3	BRL	82	50-145	10	24	
4,6-Dinitro-2-methylphenol	114	23	ug/L	116.3	BRL	98	25-152	24	35	
4,6-Dinitro-2-methylphenol	114	23	ug/L	116.3	BRL	98	25-152	24	35	
4-Bromophenyl phenyl ether	114	23	ug/L	116.3	BRL	98	52-128	7	21	
' 'romophenyl phenyl ether	114	23	ug/L	116.3	BRL	98	52-128	7	21	

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Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike Dup (P4C0329-MSD1)	**Source: 4030246-01**			Prepared: 03/18/14	Analyzed: 03/19/14					
4-Chloro-3-methylphenol	89.6	23	ug/L	116.3	BRL	77	44-110	17	25	
4-Chloro-3-methylphenol	89.6	23	ug/L	116.3	BRL	77	44-110	17	25	
4-Chloroaniline	61.3	23	ug/L	116.3	BRL	53	10-156	52	38	D
4-Chloroaniline	61.3	23	ug/L	116.3	BRL	53	10-156	52	38	D
4-Chlorophenyl phenyl ether	110	23	ug/L	116.3	BRL	95	55-125	10	29	
4-Chlorophenyl phenyl ether	110	23	ug/L	116.3	BRL	95	55-125	10	29	
4-Nitroaniline	98.6	23	ug/L	116.3	BRL	85	39-159	14	29	
4-Nitroaniline	98.6	23	ug/L	116.3	BRL	85	39-159	14	29	
4-Nitrophenol	62.1	23	ug/L	116.3	BRL	53	10-105	15	40	
4-Nitrophenol	62.1	23	ug/L	116.3	BRL	53	10-105	15	40	
Acenaphthene	99.8	23	ug/L	116.3	BRL	86	55-117	11	33	
Acenaphthene	99.8	23	ug/L	116.3	BRL	86	55-117	11	33	
Acenaphthylene	97.5	23	ug/L	116.3	BRL	84	52-121	13	30	
Acenaphthylene	97.5	23	ug/L	116.3	BRL	84	52-121	13	30	
Acetophenone	82.3	23	ug/L	116.3	BRL	71	45-135	19	50	
Aniline	41.5	23	ug/L	116.3	BRL	36	11-124	74	35	D
Aniline	41.5	23	ug/L	116.3	BRL	36	11-124	74	35	D
Anthracene	114	23	ug/L	116.3	BRL	98	60-136	7	27	
Anthracene	114	23	ug/L	116.3	BRL	98	60-136	7	27	
Azobenzene	103	23	ug/L	116.3	BRL	89	50-135	8	34	
Benzo(a)anthracene	106	23	ug/L	116.3	BRL	91	64-135	5	18	
Benzo(a)anthracene	106	23	ug/L	116.3	BRL	91	64-135	5	18	
Benzo(a)pyrene	110	23	ug/L	116.3	BRL	94	68-136	9	21	
Benzo(a)pyrene	110	23	ug/L	116.3	BRL	94	68-136	9	21	
Benzo(b)fluoranthene	105	23	ug/L	116.3	BRL	91	61-149	13	34	
Benzo(b)fluoranthene	105	23	ug/L	116.3	BRL	91	61-149	13	34	
Benzo(g,h,i)perylene	108	23	ug/L	116.3	BRL	93	47-151	8	27	
Benzo(g,h,i)perylene	108	23	ug/L	116.3	BRL	93	47-151	8	27	
Benzo(k)fluoranthene	114	23	ug/L	116.3	BRL	98	45-148	0.1	39	
Benzo(k)fluoranthene	114	23	ug/L	116.3	BRL	98	45-148	0.1	39	
Benzoic Acid	BRL	230	ug/L	116.3	BRL		10-125		51	P
Benzoic Acid	BRL	230	ug/L	116.3	BRL		10-125		51	P
Benzyl alcohol	77.2	23	ug/L	116.3	BRL	66	30-97	19	37	
Benzyl alcohol	77.2	23	ug/L	116.3	BRL	66	30-97	19	37	
bis(2-Chloroethoxy)methane	89.3	23	ug/L	116.3	BRL	77	43-119	19	30	
bis(2-Chloroethoxy)methane	89.3	23	ug/L	116.3	BRL	77	43-119	19	30	
Bis(2-Chloroethyl)ether	87.9	23	ug/L	116.3	BRL	76	36-115	26	33	
Bis(2-Chloroethyl)ether	87.9	23	ug/L	116.3	BRL	76	36-115	26	33	
Bis(2-chloroisopropyl)ether	82.3	23	ug/L	116.3	BRL	71	36-113	19	34	
Bis(2-chloroisopropyl)ether	82.3	23	ug/L	116.3	BRL	71	36-113	19	34	
Bis(2-Ethylhexyl)phthalate	98.8	23	ug/L	116.3	BRL	85	50-168	6	21	
Bis(2-Ethylhexyl)phthalate	98.8	23	ug/L	116.3	BRL	85	50-168	6	21	
Butyl benzyl phthalate	100	23	ug/L	116.3	BRL	86	52-166	5	23	
Butyl benzyl phthalate	100	23	ug/L	116.3	BRL	86	52-166	5	23	
Chrysene	114	23	ug/L	116.3	BRL	98	62-135	4	22	
Chrysene	114	23	ug/L	116.3	BRL	98	62-135	4	22	

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'ıtions-IES, Inc.
James P. Tiger
. . ɔ1 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike Dup (P4C0329-MSD1)	**Source: 4030246-01**			Prepared: 03/18/14	Analyzed: 03/19/14					
Dibenzo(a,h)anthracene	112	23	ug/L	116.3	BRL	97	45-155	6	28	
Dibenzo(a,h)anthracene	112	23	ug/L	116.3	BRL	97	45-155	6	28	
Dibenzofuran	97.2	23	ug/L	116.3	BRL	84	58-119	10	23	
Dibenzofuran	97.2	23	ug/L	116.3	BRL	84	58-119	10	23	
Diethyl phthalate	105	23	ug/L	116.3	BRL	90	55-137	6	22	
Diethyl phthalate	105	23	ug/L	116.3	BRL	90	55-137	6	22	
Dimethyl phthalate	102	23	ug/L	116.3	BRL	88	46-135	8	25	
Dimethyl phthalate	102	23	ug/L	116.3	BRL	88	46-135	8	25	
Di-n-butyl phthalate	105	23	ug/L	116.3	BRL	90	53-141	7	24	
Di-n-butyl phthalate	105	23	ug/L	116.3	BRL	90	53-141	7	24	
Di-n-octyl phthalate	101	23	ug/L	116.3	BRL	87	48-166	7	21	
Di-n-octyl phthalate	101	23	ug/L	116.3	BRL	87	48-166	7	21	
Fluoranthene	113	23	ug/L	116.3	BRL	97	51-136	4	26	
Fluoranthene	113	23	ug/L	116.3	BRL	97	51-136	4	26	
Fluorene	105	23	ug/L	116.3	BRL	90	57-121	9	30	
Fluorene	105	23	ug/L	116.3	BRL	90	57-121	9	30	
Hexachlorobenzene	104	23	ug/L	116.3	BRL	89	55-131	6	29	
:hlorobenzene	104	23	ug/L	116.3	BRL	89	55-131	6	29	
chlorobutadiene	72.8	23	ug/L	116.3	BRL	63	39-110	22	35	
Hexachlorobutadiene	72.8	23	ug/L	116.3	BRL	63	39-110	22	35	
Hexachlorocyclopentadiene	104	23	ug/L	116.3	BRL	90	26-122	17	36	
Hexachlorocyclopentadiene	104	23	ug/L	116.3	BRL	90	26-122	17	36	
Hexachloroethane	64.4	23	ug/L	116.3	BRL	55	37-98	22	37	
Hexachloroethane	64.4	23	ug/L	116.3	BRL	55	37-98	22	37	
Indeno(1,2,3-cd)pyrene	108	23	ug/L	116.3	BRL	93	14-177	9	34	
Indeno(1,2,3-cd)pyrene	108	23	ug/L	116.3	BRL	93	14-177	9	34	
Isophorone	78.9	23	ug/L	116.3	BRL	68	49-113	15	27	
Isophorone	78.9	23	ug/L	116.3	BRL	68	49-113	15	27	
Naphthalene	84.6	23	ug/L	116.3	BRL	73	38-109	17	35	
Naphthalene	84.6	23	ug/L	116.3	BRL	73	38-109	17	35	
Nitrobenzene	72.1	23	ug/L	116.3	BRL	62	34-117	19	34	
Nitrobenzene	72.1	23	ug/L	116.3	BRL	62	34-117	19	34	
N-Nitrosodimethylamine	165	23	ug/L	116.3	BRL	142	10-119	20	45	M
N-Nitroso-di-n-propylamine	83.5	23	ug/L	116.3	BRL	72	44-115	16	33	
N-Nitroso-di-n-propylamine	83.5	23	ug/L	116.3	BRL	72	44-115	16	33	
N-Nitrosodiphenylamine	97.4	23	ug/L	116.3	BRL	84	57-156	12	26	
N-Nitrosodiphenylamine	97.4	23	ug/L	116.3	BRL	84	57-156	12	26	
N-Nitrosomorpholine	80.4	23	ug/L	116.3	BRL	69	45-135	17	50	
Pentachlorophenol	108	23	ug/L	116.3	BRL	93	17-167	14	36	
Pentachlorophenol	108	23	ug/L	116.3	BRL	93	17-167	14	36	
Phenanthrene	109	23	ug/L	116.3	BRL	93	62-131	6	23	
Phenanthrene	109	23	ug/L	116.3	BRL	93	62-131	6	23	
Phenol	45.5	23	ug/L	116.3	BRL	39	10-68	28	43	
Phenol	45.5	23	ug/L	116.3	BRL	39	10-68	28	43	
Pyrene	111	23	ug/L	116.3	BRL	95	46-156	2	31	
˜ne	111	23	ug/L	116.3	BRL	95	46-156	2	31	

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1101 Nowell Road
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Prism Work Order: 4030246
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0329 - 3510C MS										
Matrix Spike Dup (P4C0329-MSD1)		**Source: 4030246-01**		Prepared: 03/18/14	Analyzed: 03/19/14					
Pyridine	66.0	23	ug/L	116.3	BRL	57	10-92	24	49	
Surrogate: 2,4,6-Tribromophenol	*227*		*ug/L*	*232.6*		*97*	*49-109*			
Surrogate: 2,4,6-Tribromophenol	*227*		*ug/L*	*232.6*		*97*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*89.1*		*ug/L*	*116.3*		*77*	*55-96*			
Surrogate: 2-Fluorobiphenyl	*89.1*		*ug/L*	*116.3*		*77*	*55-96*			
Surrogate: 2-Fluorophenol	*126*		*ug/L*	*232.6*		*54*	*27-74*			
Surrogate: 2-Fluorophenol	*126*		*ug/L*	*232.6*		*54*	*27-74*			
Surrogate: Nitrobenzene-d5	*80.3*		*ug/L*	*116.3*		*69*	*53-99*			
Surrogate: Nitrobenzene-d5	*80.3*		*ug/L*	*116.3*		*69*	*53-99*			
Surrogate: Phenol-d5	*93.0*		*ug/L*	*232.6*		*40*	*11-52*			
Surrogate: Phenol-d5	*93.0*		*ug/L*	*232.6*		*40*	*11-52*			
Surrogate: Terphenyl-d14	*105*		*ug/L*	*116.3*		*90*	*42-133*			
Surrogate: Terphenyl-d14	*105*		*ug/L*	*116.3*		*90*	*42-133*			

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-lutions-IES, Inc.
: James P. Tiger
. .01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0319 - 3510C GC										
Blank (P4C0319-BLK1)				Prepared: 03/17/14 Analyzed: 03/24/14						
4,4'-DDD	BRL	0.050	ug/L							
4,4'-DDE	BRL	0.050	ug/L							
4,4'-DDT	BRL	0.050	ug/L							
Aldrin	BRL	0.050	ug/L							
alpha-BHC	BRL	0.050	ug/L							
cis-Chlordane	BRL	0.050	ug/L							
beta-BHC	BRL	0.050	ug/L							
Chlordane	BRL	0.50	ug/L							
delta-BHC	BRL	0.050	ug/L							
Dieldrin	BRL	0.050	ug/L							
Endosulfan I	BRL	0.050	ug/L							
Endosulfan II	BRL	0.050	ug/L							
Endosulfan Sulfate	BRL	0.050	ug/L							
Endrin	BRL	0.050	ug/L							
Endrin Aldehyde	BRL	0.050	ug/L							
Endrin Ketone	BRL	0.050	ug/L							
gamma-BHC	BRL	0.050	ug/L							
·Chlordane	BRL	0.050	ug/L							
achlor	BRL	0.050	ug/L							
Heptachlor Epoxide	BRL	0.050	ug/L							
Methoxychlor	BRL	0.050	ug/L							
Toxaphene	BRL	0.50	ug/L							
Surrogate: Decachlorobiphenyl	*1.42*		*ug/L*	*1.000*		*142*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.01*		*ug/L*	*1.000*		*101*	*40-134*			
LCS (P4C0319-BS1)				Prepared: 03/17/14 Analyzed: 03/24/14						
4,4'-DDD	1.25	0.050	ug/L	1.000		125	66-138			
4,4'-DDE	1.23	0.050	ug/L	1.000		123	67-127			
4,4'-DDT	1.45	0.050	ug/L	1.000		145	66-142			LH
Aldrin	1.16	0.050	ug/L	1.000		116	62-124			
alpha-BHC	1.13	0.050	ug/L	1.000		113	63-125			
cis-Chlordane	1.11	0.050	ug/L	1.000		111	68-126			
beta-BHC	1.09	0.050	ug/L	1.000		109	65-137			
delta-BHC	1.19	0.050	ug/L	1.000		119	65-132			
Dieldrin	1.20	0.050	ug/L	1.000		120	69-130			
Endosulfan I	1.11	0.050	ug/L	1.000		111	71-129			
Endosulfan II	1.22	0.050	ug/L	1.000		122	73-135			
Endosulfan Sulfate	1.23	0.050	ug/L	1.000		123	72-137			
Endrin	1.29	0.050	ug/L	1.000		129	69-144			
Endrin Aldehyde	1.09	0.050	ug/L	1.000		109	68-139			
Endrin Ketone	1.21	0.050	ug/L	1.000		121	68-150			
gamma-BHC	1.16	0.050	ug/L	1.000		116	66-129			
trans-Chlordane	1.12	0.050	ug/L	1.000		112	66-126			
Heptachlor	1.21	0.050	ug/L	1.000		121	61-136			
Heptachlor Epoxide	1.12	0.050	ug/L	1.000		112	69-131			
Methoxychlor	1.60	0.050	ug/L	1.000		160	70-157			LH

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0319 - 3510C GC										
LCS (P4C0319-BS1)				Prepared: 03/17/14		Analyzed: 03/24/14				
Surrogate: Decachlorobiphenyl	*1.41*		*ug/L*	*1.000*		*141*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.02*		*ug/L*	*1.000*		*102*	*40-134*			
LCS (P4C0319-BS2)				Prepared: 03/17/14		Analyzed: 03/25/14				
Chlordane	10.4	0.50	ug/L	10.00		104	50-150			
Surrogate: Decachlorobiphenyl	*1.30*		*ug/L*	*1.000*		*130*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*0.840*		*ug/L*	*1.000*		*84*	*40-134*			
LCS (P4C0319-BS3)				Prepared: 03/17/14		Analyzed: 03/25/14				
Toxaphene	11.4	0.50	ug/L	10.00		114	50-150			
Surrogate: Decachlorobiphenyl	*1.31*		*ug/L*	*1.000*		*131*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.00*		*ug/L*	*1.000*		*100*	*40-134*			
LCS Dup (P4C0319-BSD1)				Prepared: 03/17/14		Analyzed: 03/24/14				
4,4'-DDD	1.29	0.050	ug/L	1.000		129	66-138	3	20	
4,4'-DDE	1.31	0.050	ug/L	1.000		131	67-127	6	20	L2
4,4'-DDT	1.54	0.050	ug/L	1.000		154	66-142	6	20	LH
Aldrin	1.20	0.050	ug/L	1.000		120	62-124	3	20	
alpha-BHC	1.20	0.050	ug/L	1.000		120	63-125	6	20	
cis-Chlordane	1.19	0.050	ug/L	1.000		119	68-126	7	20	
beta-BHC	1.15	0.050	ug/L	1.000		115	65-137	5	20	
delta-BHC	1.24	0.050	ug/L	1.000		124	65-132	4	20	
Dieldrin	1.27	0.050	ug/L	1.000		127	69-130	6	20	
Endosulfan I	1.18	0.050	ug/L	1.000		118	71-129	6	20	
Endosulfan II	1.24	0.050	ug/L	1.000		124	73-135	2	20	
Endosulfan Sulfate	1.28	0.050	ug/L	1.000		128	72-137	4	20	
Endrin	1.33	0.050	ug/L	1.000		133	69-144	3	20	
Endrin Aldehyde	1.15	0.050	ug/L	1.000		115	68-139	5	20	
Endrin Ketone	1.25	0.050	ug/L	1.000		125	68-150	3	20	
gamma-BHC	1.22	0.050	ug/L	1.000		122	66-129	5	20	
trans-Chlordane	1.20	0.050	ug/L	1.000		120	66-126	7	20	
Heptachlor	1.28	0.050	ug/L	1.000		128	61-136	6	20	
Heptachlor Epoxide	1.18	0.050	ug/L	1.000		118	69-131	5	20	
Methoxychlor	1.66	0.050	ug/L	1.000		166	70-157	4	20	LH
Surrogate: Decachlorobiphenyl	*1.40*		*ug/L*	*1.000*		*140*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*1.02*		*ug/L*	*1.000*		*102*	*40-134*			

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'ıtions-IES, Inc.
James P. Tiger
ı ı01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0319 - 3510C GC										
Matrix Spike (P4C0319-MS1)	**Source: 4030246-01**			Prepared: 03/17/14	Analyzed: 03/25/14					
4,4'-DDD	2.70	0.10	ug/L	2.000	BRL	135	17-160			
4,4'-DDE	2.68	0.10	ug/L	2.000	BRL	134	10-158			
4,4'-DDT	3.24	0.10	ug/L	2.000	BRL	162	15-171			
Aldrin	2.52	0.10	ug/L	2.000	BRL	126	24-142			
alpha-BHC	2.46	0.10	ug/L	2.000	BRL	123	52-130			
cis-Chlordane	2.44	0.10	ug/L	2.000	BRL	122	18-147			
beta-BHC	2.36	0.10	ug/L	2.000	BRL	118	31-166			
delta-BHC	2.58	0.10	ug/L	2.000	BRL	129	20-171			
Dieldrin	2.64	0.10	ug/L	2.000	BRL	132	27-148			
Endosulfan I	2.42	0.10	ug/L	2.000	BRL	121	40-141			
Endosulfan II	2.52	0.10	ug/L	2.000	BRL	126	43-146			
Endosulfan Sulfate	2.68	0.10	ug/L	2.000	BRL	134	37-153			
Endrin	2.78	0.10	ug/L	2.000	BRL	139	35-165			
Endrin Aldehyde	2.32	0.10	ug/L	2.000	BRL	116	15-165			
Endrin Ketone	2.62	0.10	ug/L	2.000	BRL	131	36-172			
gamma-BHC	2.46	0.10	ug/L	2.000	BRL	123	45-150			
trans-Chlordane	2.46	0.10	ug/L	2.000	BRL	123	35-136			
ıchlor	2.64	0.10	ug/L	2.000	BRL	132	38-150			
ıachlor Epoxide	2.42	0.10	ug/L	2.000	BRL	121	40-141			
Methoxychlor	3.52	0.10	ug/L	2.000	BRL	176	37-187			
Surrogate: Decachlorobiphenyl	*2.90*		*ug/L*	*2.000*		*145*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*2.16*		*ug/L*	*2.000*		*108*	*40-134*			
Matrix Spike Dup (P4C0319-MSD1)	**Source: 4030246-01**			Prepared: 03/17/14	Analyzed: 03/25/14					
4,4'-DDD	2.60	0.10	ug/L	2.000	BRL	130	17-160	4	29	
4,4'-DDE	2.54	0.10	ug/L	2.000	BRL	127	10-158	5	38	
4,4'-DDT	3.12	0.10	ug/L	2.000	BRL	156	15-171	4	30	
Aldrin	2.40	0.10	ug/L	2.000	BRL	120	24-142	5	35	
alpha-BHC	2.28	0.10	ug/L	2.000	BRL	114	52-130	8	31	
cis-Chlordane	2.30	0.10	ug/L	2.000	BRL	115	18-147	6	40	
beta-BHC	2.24	0.10	ug/L	2.000	BRL	112	31-166	5	29	
delta-BHC	2.46	0.10	ug/L	2.000	BRL	123	20-171	5	27	
Dieldrin	2.50	0.10	ug/L	2.000	BRL	125	27-148	5	28	
Endosulfan I	2.28	0.10	ug/L	2.000	BRL	114	40-141	6	40	
Endosulfan II	2.48	0.10	ug/L	2.000	BRL	124	43-146	2	32	
Endosulfan Sulfate	2.58	0.10	ug/L	2.000	BRL	129	37-153	4	36	
Endrin	2.70	0.10	ug/L	2.000	BRL	135	35-165	3	27	
Endrin Aldehyde	2.26	0.10	ug/L	2.000	BRL	113	15-165	3	33	
Endrin Ketone	2.54	0.10	ug/L	2.000	BRL	127	36-172	3	29	
gamma-BHC	2.32	0.10	ug/L	2.000	BRL	116	45-150	6	32	
trans-Chlordane	2.32	0.10	ug/L	2.000	BRL	116	35-136	6	34	
Heptachlor	2.48	0.10	ug/L	2.000	BRL	124	38-150	6	36	
Heptachlor Epoxide	2.30	0.10	ug/L	2.000	BRL	115	40-141	5	36	
Methoxychlor	3.50	0.10	ug/L	2.000	BRL	175	37-187	0.6	34	
Surrogate: Decachlorobiphenyl	*2.90*		*ug/L*	*2.000*		*145*	*13-186*			
Surrogate: Tetrachloro-m-xylene	*2.02*		*ug/L*	*2.000*		*101*	*40-134*			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0312 - 3510C GC										
Blank (P4C0312-BLK1)				Prepared: 03/17/14	Analyzed: 03/18/14					
Aroclor 1016	BRL	0.50	ug/L							
Aroclor 1221	BRL	1.0	ug/L							
Aroclor 1232	BRL	0.50	ug/L							
Aroclor 1242	BRL	0.50	ug/L							
Aroclor 1248	BRL	0.50	ug/L							
Aroclor 1254	BRL	0.50	ug/L							
Aroclor 1260	BRL	0.50	ug/L							
Surrogate: Tetrachloro-m-xylene	*0.980*		*ug/L*	*1.000*		*98*	*30-161*			
Surrogate: Decachlorobiphenyl	*0.760*		*ug/L*	*1.000*		*76*	*32-178*			
LCS (P4C0312-BS1)				Prepared: 03/17/14	Analyzed: 03/18/14					
Aroclor 1016	9.11	0.50	ug/L	10.00		91	50-114			
Aroclor 1260	10.1	0.50	ug/L	10.00		101	10-127			
Surrogate: Tetrachloro-m-xylene	*0.910*		*ug/L*	*1.000*		*91*	*30-161*			
Surrogate: Decachlorobiphenyl	*0.730*		*ug/L*	*1.000*		*73*	*32-178*			
LCS Dup (P4C0312-BSD1)				Prepared: 03/17/14	Analyzed: 03/18/14					
Aroclor 1016	9.09	0.50	ug/L	10.00		91	50-114	0.3	50	
Aroclor 1260	10.7	0.50	ug/L	10.00		107	10-127	6	50	
Surrogate: Tetrachloro-m-xylene	*0.790*		*ug/L*	*1.000*		*79*	*30-161*			
Surrogate: Decachlorobiphenyl	*0.800*		*ug/L*	*1.000*		*80*	*32-178*			
Matrix Spike (P4C0312-MS1)		**Source: 4030246-01**		Prepared: 03/17/14	Analyzed: 03/18/14					
Aroclor 1016	22.0	1.0	ug/L	20.00	BRL	110	50-114			
Aroclor 1260	22.4	1.0	ug/L	20.00	BRL	112	10-127			
Surrogate: Tetrachloro-m-xylene	*2.14*		*ug/L*	*2.000*		*107*	*30-161*			
Surrogate: Decachlorobiphenyl	*1.62*		*ug/L*	*2.000*		*81*	*32-178*			

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'utions-IES, Inc.
: James P. Tiger
. .01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0312 - 3510C GC										
Matrix Spike Dup (P4C0312-MSD1)		**Source: 4030246-01**		Prepared: 03/17/14	Analyzed: 03/18/14					
Aroclor 1016	19.5	1.0	ug/L	20.00	BRL	97	50-114	12	50	
Aroclor 1260	22.9	1.0	ug/L	20.00	BRL	115	10-127	2	50	
Surrogate: Tetrachloro-m-xylene	*2.04*		*ug/L*	*2.000*		*102*	*30-161*			
Surrogate: Decachlorobiphenyl	*1.76*		*ug/L*	*2.000*		*88*	*32-178*			

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Solutions-IES, Inc.
Attn: James P. Tiger
1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0300 - 3010A										
Blank (P4C0300-BLK1)				Prepared: 03/17/14 Analyzed: 03/26/14						
Antimony	BRL	0.010	mg/L							
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Beryllium	BRL	0.0020	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Cobalt	BRL	0.0050	mg/L							
Copper	BRL	0.010	mg/L							
Lead	BRL	0.0050	mg/L							
Nickel	BRL	0.010	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
Thallium	BRL	0.010	mg/L							
Tin	BRL	0.050	mg/L							
Vanadium	BRL	0.0050	mg/L							
Zinc	BRL	0.030	mg/L							
LCS (P4C0300-BS1)				Prepared: 03/17/14 Analyzed: 03/26/14						
Antimony	0.246	0.010	mg/L	0.2500		98	80-120			
Arsenic	0.255	0.010	mg/L	0.2500		102	80-120			
Barium	0.261	0.010	mg/L	0.2500		104	80-120			
Beryllium	0.259	0.0020	mg/L	0.2500		104	80-120			
Cadmium	0.258	0.0010	mg/L	0.2500		103	80-120			
Chromium	0.264	0.0050	mg/L	0.2500		106	80-120			
Cobalt	0.264	0.0050	mg/L	0.2500		106	80-120			
Copper	0.263	0.010	mg/L	0.2500		105	80-120			
Lead	0.260	0.0050	mg/L	0.2500		104	80-120			
Nickel	0.259	0.010	mg/L	0.2500		103	80-120			
Selenium	0.259	0.020	mg/L	0.2500		104	80-120			
Silver	0.102	0.0050	mg/L	0.1000		102	80-120			
Thallium	0.258	0.010	mg/L	0.2500		103	80-120			
Tin	0.268	0.050	mg/L	0.2500		107	80-120			
Vanadium	0.258	0.0050	mg/L	0.2500		103	80-120			
Zinc	0.255	0.030	mg/L	0.2500		102	80-120			

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

-lutions-IES, Inc.
: James P. Tiger
..J1 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0300 - 3010A										
Matrix Spike (P4C0300-MS1)		**Source: 4030246-01**		Prepared: 03/17/14	Analyzed: 03/26/14					
Antimony	0.249	0.010	mg/L	0.2500	BRL	99	75-125			
Arsenic	0.258	0.010	mg/L	0.2500	0.00202	102	75-125			
Barium	0.298	0.010	mg/L	0.2500	0.0419	103	75-125			
Beryllium	0.265	0.0020	mg/L	0.2500	0.00704	103	75-125			
Cadmium	0.254	0.0010	mg/L	0.2500	0.000288	101	75-125			
Chromium	0.258	0.0050	mg/L	0.2500	BRL	103	75-125			
Cobalt	0.314	0.0050	mg/L	0.2500	0.0579	103	75-125			
Copper	0.263	0.010	mg/L	0.2500	0.00490	103	75-125			
Lead	0.257	0.0050	mg/L	0.2500	0.00303	102	75-125			
Nickel	0.260	0.010	mg/L	0.2500	0.00318	103	75-125			
Selenium	0.254	0.020	mg/L	0.2500	BRL	101	75-125			
Silver	0.0998	0.0050	mg/L	0.1000	BRL	100	75-125			
Thallium	0.255	0.010	mg/L	0.2500	BRL	102	75-125			
Tin	0.275	0.050	mg/L	0.2500	BRL	110	75-125			
Vanadium	0.256	0.0050	mg/L	0.2500	0.000210	102	75-125			
Zinc	0.287	0.030	mg/L	0.2500	0.0371	100	75-125			
-trix Spike Dup (P4C0300-MSD1)		**Source: 4030246-01**		Prepared: 03/17/14	Analyzed: 03/26/14					
ıony	0.253	0.010	mg/L	0.2500	BRL	101	75-125	2	20	
ɹnic	0.261	0.010	mg/L	0.2500	0.00202	103	75-125	1	20	
Barium	0.299	0.010	mg/L	0.2500	0.0419	103	75-125	0.4	20	
Beryllium	0.266	0.0020	mg/L	0.2500	0.00704	104	75-125	0.5	20	
Cadmium	0.255	0.0010	mg/L	0.2500	0.000288	102	75-125	0.3	20	
Chromium	0.260	0.0050	mg/L	0.2500	BRL	104	75-125	1	20	
Cobalt	0.316	0.0050	mg/L	0.2500	0.0579	103	75-125	0.6	20	
Copper	0.265	0.010	mg/L	0.2500	0.00490	104	75-125	0.6	20	
Lead	0.261	0.0050	mg/L	0.2500	0.00303	103	75-125	1	20	
Nickel	0.263	0.010	mg/L	0.2500	0.00318	104	75-125	1	20	
Selenium	0.258	0.020	mg/L	0.2500	BRL	103	75-125	2	20	
Silver	0.100	0.0050	mg/L	0.1000	BRL	100	75-125	0.3	20	
Thallium	0.258	0.010	mg/L	0.2500	BRL	103	75-125	1	20	
Tin	0.278	0.050	mg/L	0.2500	BRL	111	75-125	1	20	
Vanadium	0.257	0.0050	mg/L	0.2500	0.000210	103	75-125	0.5	20	
Zinc	0.289	0.030	mg/L	0.2500	0.0371	101	75-125	0.4	20	

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1101 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0305 - 7470A										
Blank (P4C0305-BLK1)				Prepared & Analyzed: 03/17/14						
Mercury	BRL	0.00020	mg/L							
LCS (P4C0305-BS1)				Prepared & Analyzed: 03/17/14						
Mercury	0.00960	0.00020	mg/L	0.009375		102	80-120			
Matrix Spike (P4C0305-MS1)		**Source: 4030246-01**		Prepared & Analyzed: 03/17/14						
Mercury	0.00524	0.00020	mg/L	0.009375	BRL	56	80-120			MI
Matrix Spike Dup (P4C0305-MSD1)		**Source: 4030246-01**		Prepared & Analyzed: 03/17/14						
Mercury	0.00534	0.00020	mg/L	0.009375	BRL	57	80-120	2	20	MI
Post Spike (P4C0305-PS1)		**Source: 4030246-01**		Prepared & Analyzed: 03/17/14						
Mercury	3.17		ug/L	5.357	0.00710	59	85-115			MI

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
James P. Tiger
01 Nowell Road
Raleigh, NC 27607

Project: MJGR Basins I and II

Prism Work Order: 4030246
Time Submitted: 3/12/2014 3:45:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0324 - SM4500-S C										
Blank (P4C0324-BLK1)				Prepared & Analyzed: 03/17/14						
Sulfide	BRL	2.0	mg/L							
LCS (P4C0324-BS1)				Prepared & Analyzed: 03/17/14						
Sulfide	9.00	2.0	mg/L	10.00		90	70-130			
Matrix Spike (P4C0324-MS1)		**Source: 4030246-01**		Prepared & Analyzed: 03/17/14						
Sulfide	7.40	2.0	mg/L	10.00	BRL	74	70-130			
Matrix Spike Dup (P4C0324-MSD1)		**Source: 4030246-01**		Prepared & Analyzed: 03/17/14						
Sulfide	8.00	2.0	mg/L	10.00	BRL	80	70-130	8	20	
Batch P4C0410 - 9010C										
Blank (P4C0410-BLK1)				Prepared & Analyzed: 03/21/14						
Cyanide	BRL	0.0050	mg/L							
LCS (P4C0410-BS1)				Prepared & Analyzed: 03/21/14						
Cyanide	0.0879	0.0050	mg/L	0.1000		88	85-115			
Matrix Spike (P4C0410-MS1)		**Source: 4030246-01**		Prepared & Analyzed: 03/21/14						
Cyanide	0.0722	0.0050	mg/L	0.1000	BRL	72	80-120			MI
x Spike Dup (P4C0410-MSD1)		**Source: 4030246-01**		Prepared & Analyzed: 03/21/14						
Cyanide	0.0768	0.0050	mg/L	0.1000	BRL	77	80-120	6	20	MI

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Sample Extraction Data

Prep Method: 9010C

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0410	50 mL	50 mL	03/21/14 8:00
4030246-02	P4C0410	50 mL	50 mL	03/21/14 8:00
4030246-05	P4C0410	50 mL	50 mL	03/21/14 8:00
4030246-06	P4C0410	50 mL	50 mL	03/21/14 8:00
4030246-07	P4C0410	50 mL	50 mL	03/21/14 8:00

Prep Method: SM4500-S C

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0324	200 mL	200 mL	03/17/14 14:00
4030246-02	P4C0324	200 mL	200 mL	03/17/14 14:00
4030246-05	P4C0324	200 mL	200 mL	03/17/14 14:00
4030246-06	P4C0324	200 mL	200 mL	03/17/14 14:00
4030246-07	P4C0324	200 mL	200 mL	03/17/14 14:00

Prep Method: 3510C GC

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0319	1000 mL	10 mL	03/17/14 12:50
4030246-02	P4C0319	1000 mL	10 mL	03/17/14 12:50
4030246-05	P4C0319	1000 mL	10 mL	03/17/14 12:50
4030246-06	P4C0319	1000 mL	10 mL	03/17/14 12:50
4030246-07	P4C0319	1000 mL	10 mL	03/17/14 12:50

Prep Method: 3510C GC

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0312	1000 mL	10 mL	03/17/14 12:50
4030246-02	P4C0312	1000 mL	10 mL	03/17/14 12:50
4030246-05	P4C0312	1000 mL	10 mL	03/17/14 12:50
4030246-06	P4C0312	1000 mL	10 mL	03/17/14 12:50
4030246-07	P4C0312	1000 mL	10 mL	03/17/14 12:50

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0329	890 mL	1 mL	03/18/14 8:30
4030246-01	P4C0329	890 mL	1 mL	03/18/14 8:30
4030246-02	P4C0329	910 mL	1 mL	03/18/14 8:30
4030246-02	P4C0329	910 mL	1 mL	03/18/14 8:30
4030246-03	P4C0329	1000 mL	1 mL	03/18/14 8:30
4030246-04	P4C0329	980 mL	1 mL	03/18/14 8:30
4030246-05	P4C0329	870 mL	1 mL	03/18/14 8:30
4030246-05	P4C0329	870 mL	1 mL	03/18/14 8:30
4030246-06	P4C0329	890 mL	1 mL	03/18/14 8:30
4030246-06	P4C0329	890 mL	1 mL	03/18/14 8:30
4030246-07	P4C0329	740 mL	1 mL	03/18/14 8:30
4030246-07	P4C0329	740 mL	1 mL	03/18/14 8:30

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0300	50 mL	50 mL	03/17/14 8:45
4030246-01	P4C0300	50 mL	50 mL	03/17/14 8:45
4030246-02	P4C0300	50 mL	50 mL	03/17/14 8:45
4030246-05	P4C0300	50 mL	50 mL	03/17/14 8:45
4030246-06	P4C0300	50 mL	50 mL	03/17/14 8:45

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Sample Extraction Data

Prep Method: 3010A

Number	Batch	Initial	Final	Date/Time
,246-07	P4C0300	50 mL	50 mL	03/17/14 8:45

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0305	20 mL	30 mL	03/17/14 10:45
4030246-02	P4C0305	20 mL	30 mL	03/17/14 10:45
4030246-05	P4C0305	20 mL	30 mL	03/17/14 10:45
4030246-06	P4C0305	20 mL	30 mL	03/17/14 10:45
4030246-07	P4C0305	20 mL	30 mL	03/17/14 10:45

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
4030246-01	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-02	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-03	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-04	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-05	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-06	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-07	P4C0314	10 mL	10 mL	03/15/14 9:49
4030246-08	P4C0314	10 mL	10 mL	03/15/14 9:49

Subcontracted Analyses

The following analyses were subcontracted to Analytical Environmental Services, Inc.

Lab Number	Analysis
46-01	Herbicides (Sub)
0246-02	Herbicides (Sub)
4030246-05	Herbicides (Sub)
4030246-06	Herbicides (Sub)
4030246-07	Herbicides (Sub)

The following analyses were subcontracted to Cape Fear Analytical

Lab Number	Analysis
4030246-01	8290 (Sub)
4030246-02	8290 (Sub)
4030246-05	8290 (Sub)
4030246-06	8290 (Sub)
4030246-07	8290 (Sub)

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: MKGR BASINS I + II
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Emily Davis
Address: _____

Client Company Name: Solutions-ies
Report To/Contact Name: James Tizer
Reporting Address: 1101 Nowell Rd
Raleigh, NC 27607
Phone: 919-873-1060 Fax (Yes) (No): _____
Email Address: jtizer@solutions-ie.com
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: Mallinckrodt
Site Location Physical Address: Raleigh, NC

Purchase Order No./Billing Reference 2014.0012
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP Therm ID D2T-10 Observed 5.4 °C (Cor) 4.9 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____
Water Chlorinated: YES____ NO X
Sample Iced Upon Collection: YES X NO____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260 + Chlorofrm + Toluene	8270 + Aniline + nitrobenz	App. 9 Full List VOC/SVOC	REMARKS	PRISM LAB ID NO.
~~WW-9S~~												
WW-9S	3-11-14	11:15	GW	A/G/P	17			X	X	X		01
WW-10S		1235			17			X	X	X		02
Field blank		1330	DI		6			X	X			03
WW-10D		1355	GW	G	6			X	X			04
Matrix Spike		1355		A/G/P	17			X	X	X	collected from WW-10D	05 04
Matrix Spike Dup		1355			17			X	X	X	collected from WW-10D	06 04
WW-7S		1605			17			X	X	X		07 05
Duplicate		—			17			X	X	X		08 06
Rinse blank		1710	DI	G	17			X	X	X		09 07
Trip blank		—	DI	G	2			X				10 08

Sampler's Signature [signature] Sampled By (Print Name) SEAN JARVAL Affiliation Solutions-ies

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	3/17/14	1130
Relinquished By: (Signature) [signature]	Received By: (Signature) [signature]	3-17-14	13:45
Relinquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	3-12-14	15:45

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____
COC Group No. 4830246

Additional Comments:
Run full list of VOC/SVOC for App-9
8260 + chlorofrm + Toluene
8270 + Aniline + nitrobenzene

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Field Tech Fee
Mileage

SEE REVERSE FOR TERMS & CONDITIONS

CODES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC

CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined C A = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT:

Prism Laboratories
PO Box 240543
Charlotte, NC 28224
ATTN: Angela D. Overcash

PROJECT:

4030246

DATE:

04.04.14

Access Analytical Project Manager:

Ashley B. Amick
aamick@axs-inc.com

Any questions related to this report should be directed to your Access Analytical project manager listed above at phone 803.781.4243 or via email.

CFA | Cape Fear Analytical LLC
an affiliate of **The GEL Group** INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421

www.capefearanalytical.com

April 04, 2014

Mr. Ashley Amick
Access Analytical, Inc.
7478 Carlisle Street
Irmo, South Carolina 29063

Re: Lab Subcontract (Dredge)
Work Order: 5896
SDG: 4030246

Dear Mr. Amick:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 15, 2014. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynthia Larkins
Project Manager

Enclosures

SUBCONTRACT ORDER

Prism Laboratories, Inc.

4030246

Certification: NELAC___ USACE____
NC___ SC___ Other _____
N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

Cape Fear Analytical
3306 Kitty Hawk Rd. Ste 120
Wilmington, NC 28405
Phone :(910) 795-0421
Fax: -

WO#5896

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 4030246-01	**Water**	**Sampled:03/11/14 11:15**	[redacted]	
8290 (Sub)		03/18/14 11:15		App IX - Use for MS/MSD - limited sample volume
Containers Supplied: 2				
Sample ID: 4030246-02	**Water**	**Sampled:03/11/14 12:35**	[redacted]	
8290 (Sub)		03/18/14 12:35		App IX
Containers Supplied: 2				
Sample ID: 4030246-05	**Water**	**Sampled:03/11/14 16:05**	[redacted]	
8290 (Sub)		03/18/14 16:05		App IX
Containers Supplied: 2				
Sample ID: 4030246-06	**Water**	**Sampled:03/11/14 00:00**	[redacted]	
8290 (Sub)		03/18/14 00:00		App IX
Containers Supplied: 2				
Sample ID: 4030246-07	**Water**	**Sampled:03/11/14 17:10**	[redacted]	
8290 (Sub)		03/18/14 17:10		App IX
Containers Supplied: 2				

Released By	Date	Received By	Date
	3.14.14	FEDEX	3.14.14
FEDEX	3.15.14		3.15.14 1°C
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: Prism	Work Order: 5896
Received By: Mary Showalter	Date/Time Received: 17 MAR 14 1200

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			
Samples identified as Foreign Soil?			

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?			
Samples < 2x background?			

* Notify RSO of any responses in this column immediately.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Chain of Custody documents included with shipment?	✓			
3	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 1°
4	Samples requiring chemical preservation at proper pH?	✓			Sample IDs, containers affected and pH observed: If preservative added, Lot#: 7 Sample 07 → pH 8
5	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
6	Samples received within holding time?	✓			Sample IDs, tests affected:
7	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
8	Date & time of COC match date & time on containers?	✓			Sample IDs, containers affected:
9	Number of containers received match number indicated on COC?	✓			Sample IDs, containers affected:
10	COC form is properly signed in relinquished/received sections?	✓			

Comments:

Checklist performed by: Initials: [illegible] Date: 17MAR14

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
Access Analytical, Inc. (AAIS)
SDG 4030246
Work Order 5896

Method/Analysis Information

Product:	**App. IX list by SW846 Method 8290A in Liquids**
Analytical Method:	SW846 8290A
Extraction Method:	SW846 3520C
Analytical Batch Number:	25515
Clean Up Batch Number:	25514
Extraction Batch Number:	25513

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8290A:

Sample ID	Client ID
5896001	4030246-01
5896002	5896001(4030246-01) Matrix Spike (MS)
5896003	5896001(4030246-01) Matrix Spike Duplicate (MSD)
5896004	4030246-02
5896005	4030246-05
5896006	4030246-06
5896007	4030246-07
12010050	Method Blank (MB)
12010051	Laboratory Control Sample (LCS)
12010052	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 13.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2003 NELAC Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
Sample 5896001 (4030246-01) was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement
The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and

time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP. Limited sample volume was available for the associated MS/MSD. Therefore, detection limits are slightly elevated.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation
A NCR was not required for this SDG.

Manual Integrations
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration
This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	High-Resolution GC/MS System	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted: Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Certificate of Analysis Report
for

AAIS001 Access Analytical, Inc.

Client SDG: 4030246 CFA Work Order: 5896

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: ESuhrie **Name: Erin Suhrie**

Date: 04 APR 2014 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896001	Date Collected:	03/11/2014 11:15	Matrix:	WATER
Client Sample:	8290 Water	Date Received:	03/15/2014 13:30		
Client ID:	4030246-01			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 14:38	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-4			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	904.5 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.586		pg/L	0.586	11.1
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.586		pg/L	0.586	11.1
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	.548		pg/L	0.548	55.3
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	.727		pg/L	0.727	55.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	1.30		pg/L	0.922	55.3
30402-14-3	Total Tetrachlorodibenzofuran	U	.562		pg/L	0.562	11.1
30402-15-4	Total Pentachlorodibenzofuran	U	.305	0.398	pg/L	0.305	55.3
55684-94-1	Total Hexachlorodibenzofuran	U	.398		pg/L	0.398	55.3
38998-75-3	Total Heptachlorodibenzofuran	J	0.420		pg/L	0.380	55.3

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1980	2210	pg/L	89.3	(40%-135%)
13C-1,2,3,7,8-PeCDD		2190	2210	pg/L	99.1	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1730	2210	pg/L	78.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2120	2210	pg/L	95.8	(40%-135%)
13C-OCDD		4220	4420	pg/L	95.4	(40%-135%)
13C-2,3,7,8-TCDF		1970	2210	pg/L	89.3	(40%-135%)
13C-1,2,3,7,8-PeCDF		2220	2210	pg/L	101	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1610	2210	pg/L	72.7	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1940	2210	pg/L	87.9	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

DG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896004	Date Collected:	03/11/2014 12:35	Matrix:	WATER
Client Sample:	8290 Water	Date Received:	03/15/2014 13:30		
Client ID:	4030246-02			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 17:01	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-7			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	889.2 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.598		pg/L	0.598	11.2
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.598		pg/L	0.598	11.2
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	.448		pg/L	0.448	56.2
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	.682		pg/L	0.682	56.2
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	1.24		pg/L	0.992	56.2
30402-14-3	Total Tetrachlorodibenzofuran	U	.596		pg/L	0.596	11.2
30402-15-4	Total Pentachlorodibenzofuran	U	.346		pg/L	0.346	56.2
55684-94-1	Total Hexachlorodibenzofuran	U	.412		pg/L	0.412	56.2
38998-75-3	Total Heptachlorodibenzofuran	U	.355		pg/L	0.355	56.2

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1940	2250	pg/L	86.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		2150	2250	pg/L	95.7	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1750	2250	pg/L	77.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2150	2250	pg/L	95.6	(40%-135%)
13C-OCDD		4210	4500	pg/L	93.7	(40%-135%)
13C-2,3,7,8-TCDF		1920	2250	pg/L	85.4	(40%-135%)
13C-1,2,3,7,8-PeCDF		2110	2250	pg/L	94.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1640	2250	pg/L	72.9	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1970	2250	pg/L	87.6	(40%-135%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896005	Date Collected:	03/11/2014 16:05	Matrix:	WATER
Client Sample:	8290 Water	Date Received:	03/15/2014 13:30		
Client ID:	4030246-05			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 17:49	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-8			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	887.8 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.489		pg/L	0.489	11.3
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.489		pg/L	0.489	11.3
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	.387		pg/L	0.387	56.3
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	.466		pg/L	0.466	56.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	.55		pg/L	0.550	56.3
30402-14-3	Total Tetrachlorodibenzofuran	U	.374		pg/L	0.374	11.3
30402-15-4	Total Pentachlorodibenzofuran	J	0.383		pg/L	0.208	56.3
55684-94-1	Total Hexachlorodibenzofuran	U	.246		pg/L	0.246	56.3
38998-75-3	Total Heptachlorodibenzofuran	U	.232		pg/L	0.232	56.3

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		2150	2250	pg/L	95.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		2310	2250	pg/L	102	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1840	2250	pg/L	81.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2260	2250	pg/L	101	(40%-135%)
13C-OCDD		4630	4510	pg/L	103	(40%-135%)
13C-2,3,7,8-TCDF		2120	2250	pg/L	93.9	(40%-135%)
13C-1,2,3,7,8-PeCDF		2250	2250	pg/L	99.8	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1710	2250	pg/L	75.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		2030	2250	pg/L	90.3	(40%-135%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

DG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896006	Date Collected:	03/11/2014 00:00	Matrix:	WATER
Client Sample:	8290 Water	Date Received:	03/15/2014 13:30		
Client ID:	4030246-06			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/28/2014 19:52	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_7-4			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	916 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.02		pg/L	2.02	10.9
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.02		pg/L	2.02	10.9
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.29		pg/L	1.29	54.6
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	1.57		pg/L	1.57	54.6
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	2.16		pg/L	2.16	54.6
30402-14-3	Total Tetrachlorodibenzofuran	U	1.45		pg/L	1.45	10.9
30402-15-4	Total Pentachlorodibenzofuran	U	.886		pg/L	0.886	54.6
55684-94-1	Total Hexachlorodibenzofuran	U	1.06		pg/L	1.06	54.6
38998-75-3	Total Heptachlorodibenzofuran	U	1.4		pg/L	1.40	54.6

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		2010	2180	pg/L	92.0	(40%-135%)
13C-1,2,3,7,8-PeCDD		2130	2180	pg/L	97.6	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1740	2180	pg/L	79.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2060	2180	pg/L	94.1	(40%-135%)
13C-OCDD		4050	4370	pg/L	92.8	(40%-135%)
13C-2,3,7,8-TCDF		2040	2180	pg/L	93.3	(40%-135%)
13C-1,2,3,7,8-PeCDF		2170	2180	pg/L	99.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1630	2180	pg/L	74.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1990	2180	pg/L	90.9	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896007	Date Collected:	03/11/2014 17:10	Matrix:	WATER
Client Sample:	8290 Water	Date Received:	03/15/2014 13:30		
Client ID:	4030246-07			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/28/2014 20:40	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_7-5			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	891.3 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.05		pg/L	3.05	11.2
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.05		pg/L	3.05	11.2
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.29		pg/L	2.29	56.1
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.05		pg/L	3.05	56.1
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	3.93		pg/L	3.93	56.1
30402-14-3	Total Tetrachlorodibenzofuran	U	2.69		pg/L	2.69	11.2
30402-15-4	Total Pentachlorodibenzofuran	U	1.76		pg/L	1.76	56.1
55684-94-1	Total Hexachlorodibenzofuran	U	1.39		pg/L	1.39	56.1
38998-75-3	Total Heptachlorodibenzofuran	U	1.69		pg/L	1.69	56.1

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		2000	2240	pg/L	89.3	(40%-135%)
13C-1,2,3,7,8-PeCDD		2140	2240	pg/L	95.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1830	2240	pg/L	81.7	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2130	2240	pg/L	94.9	(40%-135%)
13C-OCDD		3990	4490	pg/L	88.9	(40%-135%)
13C-2,3,7,8-TCDF		2040	2240	pg/L	91.0	(40%-135%)
13C-1,2,3,7,8-PeCDF		2230	2240	pg/L	99.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1710	2240	pg/L	76.0	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		2000	2240	pg/L	88.9	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 4030246

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12010051	LCS for batch 25513	13C-2,3,7,8-TCDD		88.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		94.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		73.9	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		91.7	(40%-135%)
		13C-OCDD		88.8	(40%-135%)
		13C-2,3,7,8-TCDF		87.1	(40%-135%)
		13C-1,2,3,7,8-PeCDF		94.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		69.4	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		83.9	(40%-135%)
12010052	LCSD for batch 25513	13C-2,3,7,8-TCDD		98.2	(40%-135%)
		13C-1,2,3,7,8-PeCDD		101	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		80.4	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		98.3	(40%-135%)
		13C-OCDD		94.7	(40%-135%)
		13C-2,3,7,8-TCDF		92.6	(40%-135%)
		13C-1,2,3,7,8-PeCDF		102	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		73.1	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		88.2	(40%-135%)
5896001	4030246-01	13C-2,3,7,8-TCDD		89.3	(40%-135%)
		13C-1,2,3,7,8-PeCDD		99.1	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		78.2	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		95.8	(40%-135%)
		13C-OCDD		95.4	(40%-135%)
		13C-2,3,7,8-TCDF		89.3	(40%-135%)
		13C-1,2,3,7,8-PeCDF		101	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		72.7	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		87.9	(40%-135%)
5896002	4030246-01 MS	13C-2,3,7,8-TCDD		92.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		103	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		79.1	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		98.1	(40%-135%)
		13C-OCDD		96.0	(40%-135%)
		13C-2,3,7,8-TCDF		92.6	(40%-135%)
		13C-1,2,3,7,8-PeCDF		104	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		73.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		89.3	(40%-135%)
5896004	4030246-02	13C-2,3,7,8-TCDD		86.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		95.7	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		77.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		95.6	(40%-135%)
		13C-OCDD		93.7	(40%-135%)
		13C-2,3,7,8-TCDF		85.4	(40%-135%)
		13C-1,2,3,7,8-PeCDF		94.0	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		72.9	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		87.6	(40%-135%)
5896005	4030246-05	13C-2,3,7,8-TCDD		95.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		102	(40%-135%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 4030246

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
5896005	4030246-05	13C-1,2,3,6,7,8-HxCDD		81.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		101	(40%-135%)
		13C-OCDD		103	(40%-135%)
		13C-2,3,7,8-TCDF		93.9	(40%-135%)
		13C-1,2,3,7,8-PeCDF		99.8	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		75.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		90.3	(40%-135%)
12010050	MB for batch 25513	13C-2,3,7,8-TCDD		86.8	(40%-135%)
		13C-1,2,3,7,8-PeCDD		93.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		77.7	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		89.1	(40%-135%)
		13C-OCDD		82.8	(40%-135%)
		13C-2,3,7,8-TCDF		85.2	(40%-135%)
		13C-1,2,3,7,8-PeCDF		92.6	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		72.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		86.3	(40%-135%)
5896003	4030246-01 MSD	13C-2,3,7,8-TCDD		89.6	(40%-135%)
		13C-1,2,3,7,8-PeCDD		96.7	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		82.4	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		97.5	(40%-135%)
		13C-OCDD		96.9	(40%-135%)
		13C-2,3,7,8-TCDF		92.5	(40%-135%)
		13C-1,2,3,7,8-PeCDF		98.0	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		78.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		96.3	(40%-135%)
5896006	4030246-06	13C-2,3,7,8-TCDD		92.0	(40%-135%)
		13C-1,2,3,7,8-PeCDD		97.6	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		79.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		94.1	(40%-135%)
		13C-OCDD		92.8	(40%-135%)
		13C-2,3,7,8-TCDF		93.3	(40%-135%)
		13C-1,2,3,7,8-PeCDF		99.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		74.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		90.9	(40%-135%)
5896007	4030246-07	13C-2,3,7,8-TCDD		89.3	(40%-135%)
		13C-1,2,3,7,8-PeCDD		95.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		81.7	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		94.9	(40%-135%)
		13C-OCDD		88.9	(40%-135%)
		13C-2,3,7,8-TCDF		91.0	(40%-135%)
		13C-1,2,3,7,8-PeCDF		99.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		76.0	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		88.9	(40%-135%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

) Sample Diluted

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

SDG Number: 4030246
Client ID: LCS for batch 25513
Lab Sample ID: 12010051
Instrument: HRP763
Analyst: JTF

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 03/27/2014 12:15
Dilution: 1
Prep Batch ID: 25513
Batch ID: 25515

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	214	107	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

LDG Number: 4030246
Sample Type: Laboratory Control Sample Duplicate
Client ID: LCSD for batch 25513
Matrix: WATER
Lab Sample ID: 12010052
Instrument: HRP763
Analysis Date: 03/27/2014 13:02
Dilution: 1
Analyst: JTF
Prep Batch ID: 25513
Batch ID: 25515

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	217	108	70-130	1.03	0-20

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

SDG Number: 4030246
Client ID: 4030246-01 MS
Lab Sample ID: 5896002
Instrument: HRP763
Analyst: JTF

Sample Type: Matrix Spike
Matrix: WATER
Analysis Date: 03/27/2014 15:26
Dilution: 1
Prep Batch ID: 25513
Batch ID: 25515

CAS No.		Parmname	Amount Added pg/L		Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	MS	2,3,7,8-TCDD	434	U	474	109	70-130

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

DG Number:	4030246	Sample Type:	Matrix Spike Duplicate
Client ID:	4030246-01 MSD	Matrix:	WATER
Lab Sample ID:	5896003		
Instrument:	HRP763	Analysis Date:	03/28/2014 18:17
Analyst:	JTF	Prep Batch ID:	25513
		Batch ID:	25515

Dilution: 1

CAS No.		Parmname	Amount Added pg/L		Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	MSD	2,3,7,8-TCDD	434	U	462	107	70-130	2.55	0-20

Method Blank Summary

SDG Number:	4030246	Client:	AAIS001	Matrix:	WATER
Client ID:	MB for batch 25513	Instrument ID:	HRP763	Data File:	b26mar14a_7-1
Lab Sample ID:	12010050	Prep Date:	20-MAR-14	Analyzed:	03/28/14 17:30
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 25513	12010051	b26mar14a_4-1	03/27/14	1215
02	LCSD for batch 25513	12010052	b26mar14a_4-2	03/27/14	1302
03	4030246-01	5896001	b26mar14a_4-4	03/27/14	1438
04	4030246-01 MS	5896002	b26mar14a_4-5	03/27/14	1526
05	4030246-02	5896004	b26mar14a_4-7	03/27/14	1701
06	4030246-05	5896005	b26mar14a_4-8	03/27/14	1749
07	4030246-01 MSD	5896003	b26mar14a_7-2	03/28/14	1817
08	4030246-06	5896006	b26mar14a_7-4	03/28/14	1952
09	4030246-07	5896007	b26mar14a_7-5	03/28/14	2040

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

DG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	12010050			Matrix:	WATER
Client Sample:	QC for batch 25513				
Client ID:	MB for batch 25513			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/28/2014 17:30	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_7-1			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	1000 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.52		pg/L	1.52	10.0
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	1.52		pg/L	1.52	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.95		pg/L	1.95	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.12		pg/L	2.12	50.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	3.36		pg/L	3.36	50.0
30402-14-3	Total Tetrachlorodibenzofuran	U	1.49		pg/L	1.49	10.0
30402-15-4	Total Pentachlorodibenzofuran	U	1.41		pg/L	1.41	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.3		pg/L	1.30	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.41		pg/L	1.41	50.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1740	2000	pg/L	86.8	(40%-135%)
13C-1,2,3,7,8-PeCDD		1870	2000	pg/L	93.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1550	2000	pg/L	77.7	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1780	2000	pg/L	89.1	(40%-135%)
13C-OCDD		3310	4000	pg/L	82.8	(40%-135%)
13C-2,3,7,8-TCDF		1700	2000	pg/L	85.2	(40%-135%)
13C-1,2,3,7,8-PeCDF		1850	2000	pg/L	92.6	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1460	2000	pg/L	72.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1730	2000	pg/L	86.3	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	12010051			Matrix:	WATER
Client Sample:	QC for batch 25513				
Client ID:	LCS for batch 25513			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 12:15	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-1			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	1000 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		214		pg/L	0.860	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1770	2000	pg/L	88.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		1890	2000	pg/L	94.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1480	2000	pg/L	73.9	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1830	2000	pg/L	91.7	(40%-135%)
13C-OCDD		3550	4000	pg/L	88.8	(40%-135%)
13C-2,3,7,8-TCDF		1740	2000	pg/L	87.1	(40%-135%)
13C-1,2,3,7,8-PeCDF		1890	2000	pg/L	94.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1390	2000	pg/L	69.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1680	2000	pg/L	83.9	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

DG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	12010052			Matrix:	WATER
Client Sample:	QC for batch 25513				
Client ID:	LCSD for batch 25513			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 13:02	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-2			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	1000 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		217		pg/L	0.854	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1960	2000	pg/L	98.2	(40%-135%)
13C-1,2,3,7,8-PeCDD		2030	2000	pg/L	101	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1610	2000	pg/L	80.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1970	2000	pg/L	98.3	(40%-135%)
13C-OCDD		3790	4000	pg/L	94.7	(40%-135%)
13C-2,3,7,8-TCDF		1850	2000	pg/L	92.6	(40%-135%)
13C-1,2,3,7,8-PeCDF		2040	2000	pg/L	102	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1460	2000	pg/L	73.1	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1760	2000	pg/L	88.2	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896002	Date Collected:	03/11/2014 11:15	Matrix:	WATER
Client Sample:	MS for 5896001 (4030246-01)	Date Received:	03/15/2014 13:30		
Client ID:	4030246-01 MS			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/27/2014 15:26	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_4-5			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	460.8 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		474		pg/L	1.70	21.7

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		4010	4340	pg/L	92.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		4450	4340	pg/L	103	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		3430	4340	pg/L	79.1	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		4260	4340	pg/L	98.1	(40%-135%)
13C-OCDD		8330	8680	pg/L	96.0	(40%-135%)
13C-2,3,7,8-TCDF		4020	4340	pg/L	92.6	(40%-135%)
13C-1,2,3,7,8-PeCDF		4500	4340	pg/L	104	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		3200	4340	pg/L	73.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		3880	4340	pg/L	89.3	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	4030246	Client:	AAIS001	Project:	AAIS00110
Lab Sample ID:	5896003	Date Collected:	03/11/2014 11:15	Matrix:	WATER
Client Sample:	MSD for 5896001 (4030246-01)	Date Received:	03/15/2014 13:30		
Client ID:	4030246-01 MSD			Prep Basis:	As Received
Batch ID:	25515	Method:	SW846 8290A		
Run Date:	03/28/2014 18:17	Analyst:	JTF	Instrument:	HRP763
Data File:	b26mar14a_7-2			Dilution:	1
Prep Batch:	25513	Prep Method:	SW846 3520C		
Prep Date:	20-MAR-14	Aliquot:	460.8 mL		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		462		pg/L	5.82	21.7

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		3890	4340	pg/L	89.6	(40%-135%)
13C-1,2,3,7,8-PeCDD		4200	4340	pg/L	96.7	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		3580	4340	pg/L	82.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		4230	4340	pg/L	97.5	(40%-135%)
13C-OCDD		8410	8680	pg/L	96.9	(40%-135%)
13C-2,3,7,8-TCDF		4010	4340	pg/L	92.5	(40%-135%)
13C-1,2,3,7,8-PeCDF		4250	4340	pg/L	98.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		3420	4340	pg/L	78.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		4180	4340	pg/L	96.3	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Prism Laboratories
PO Box 240543
Charlotte NC 282240543

ATTENTION
Terri W. Cole

PROJECT ID
4030246

LABORATORY REPORT NUMBER
1403E01

DATE
March 25, 2014

Primary Data Review By

Secondary Data Review By

Chantelle Kanhai
Project Manager, AES

Ashley Amick

Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.**
- **AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582**
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

1403E01

SUBCONTRACT ORDER

Prism Laboratories, Inc.

4030246

Certification: NELAC___ USACE___
NC___ SC___ Other _____
N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

Analytical Environmental Services, Inc.
3785 Presidential Parkway
Atlanta, GA 30340
Phone :(770) 457-8177
Fax: NA

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 4030246-01	**Water**	**Sampled:03/11/14 11:15**	WW-9S	
Herbicides (Sub)		03/18/14 11:15		App IX - Use for MS/MSD - limited sample volume
Containers Supplied:				
Sample ID: 4030246-02	**Water**	**Sampled:03/11/14 12:35**	WW-10S	
Herbicides (Sub)		03/18/14 12:35		App IX
Containers Supplied:				
Sample ID: 4030246-05	**Water**	**Sampled:03/11/14 16:05**	WW-7S	
Herbicides (Sub)		03/18/14 16:05		App IX
Containers Supplied:				
Sample ID: 4030246-06	**Water**	**Sampled:03/11/14 00:00**	Duplicate	
Herbicides (Sub)		03/18/14 00:00		App IX
Containers Supplied:				
Sample ID: 4030246-07	**Water**	**Sampled:03/11/14 17:10**	Rinse Blank	
Herbicides (Sub)		03/18/14 17:10		App IX

Released By	Date	Received By	Date
[signature]	3-14-14	FEDEX	3-14-14
FEDEX	3-15-14	[signature]	3-15-14 8:30

Analytical Environmental Services, Inc.

Date: *25-Mar-14*

CLIENT:	Prism Laboratories	**Client Sample ID:**	WW-9S
Lab Order:	1403E01	**Tag Number:**	4030246-01
Project:	4030246	**Collection Date:**	3/11/2014 11:15:00 AM
Lab ID:	1403E01-001A	**Matrix:**	AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A				**(SW3510C)**			Analyst: **RUF**	
2,4,5-T	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 2:30:00 PM
2,4,5-TP (Silvex)	BRL		0.39	2.0	ug/L	188390	1	3/18/2014 2:30:00 PM
2,4-D	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 2:30:00 PM
Dinoseb	BRL		0.34	5.0	ug/L	188390	1	3/18/2014 2:30:00 PM
Surr: DCAA	106		0	43.6-155	%REC	188390	1	3/18/2014 2:30:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
	N	Analyte not NELAC certified	Rpt Lim	Reporting Limit
	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Date: *25-Mar-14*

CLIENT:	Prism Laboratories	**Client Sample ID:**	WW-10S
Lab Order:	1403E01	**Tag Number:**	4030246-02
Project:	4030246	**Collection Date:**	3/11/2014 12:35:00 PM
Lab ID:	1403E01-002A	**Matrix:**	AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A				**(SW3510C)**			Analyst: **RUF**	
2,4,5-T	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 3:02:00 PM
2,4,5-TP (Silvex)	BRL		0.39	2.0	ug/L	188390	1	3/18/2014 3:02:00 PM
2,4-D	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 3:02:00 PM
Dinoseb	BRL		0.34	5.0	ug/L	188390	1	3/18/2014 3:02:00 PM
Surr: DCAA	106		0	43.6-155	%REC	188390	1	3/18/2014 3:02:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
	N	Analyte not NELAC certified	Rpt Lim	Reporting Limit
	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Date: *25-Mar-14*

CLIENT:	Prism Laboratories	**Client Sample ID:**	WW-7S
Lab Order:	1403E01	**Tag Number:**	4030246-05
Project:	4030246	**Collection Date:**	3/11/2014 4:05:00 PM
Lab ID:	1403E01-003A	**Matrix:**	AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A				**(SW3510C)**			Analyst: **RUF**	
2,4,5-T	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 3:33:00 PM
2,4,5-TP (Silvex)	BRL		0.39	2.0	ug/L	188390	1	3/18/2014 3:33:00 PM
2,4-D	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 3:33:00 PM
Dinoseb	BRL		0.34	5.0	ug/L	188390	1	3/18/2014 3:33:00 PM
Surr: DCAA	84.1		0	43.6-155	%REC	188390	1	3/18/2014 3:33:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
	N	Analyte not NELAC certified	Rpt Lim	Reporting Limit
	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Date: *25-Mar-14*

CLIENT:	Prism Laboratories	**Client Sample ID:**	DUPLICATE
Lab Order:	1403E01	**Tag Number:**	4030246-06
Project:	4030246	**Collection Date:**	3/11/2014
Lab ID:	1403E01-004A	**Matrix:**	AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A				**(SW3510C)**			Analyst: **RUF**	
2,4,5-T	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 4:05:00 PM
2,4,5-TP (Silvex)	BRL		0.39	2.0	ug/L	188390	1	3/18/2014 4:05:00 PM
2,4-D	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 4:05:00 PM
Dinoseb	BRL		0.34	5.0	ug/L	188390	1	3/18/2014 4:05:00 PM
Surr: DCAA	89.8		0	43.6-155	%REC	188390	1	3/18/2014 4:05:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
	N	Analyte not NELAC certified	Rpt Lim	Reporting Limit
	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Date: *25-Mar-14*

CLIENT:	Prism Laboratories	**Client Sample ID:**	RINSE BLANK
Lab Order:	1403E01	**Tag Number:**	4030246-07
Project:	4030246	**Collection Date:**	3/11/2014 5:10:00 PM
Lab ID:	1403E01-005A	**Matrix:**	AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A				**(SW3510C)**			Analyst: **RUF**	
2,4,5-T	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 4:37:00 PM
2,4,5-TP (Silvex)	BRL		0.39	2.0	ug/L	188390	1	3/18/2014 4:37:00 PM
2,4-D	BRL		0.42	2.0	ug/L	188390	1	3/18/2014 4:37:00 PM
Dinoseb	BRL		0.34	5.0	ug/L	188390	1	3/18/2014 4:37:00 PM
Surr: DCAA	101		0	43.6-155	%REC	188390	1	3/18/2014 4:37:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
	N	Analyte not NELAC certified	Rpt Lim	Reporting Limit
	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Access Work Order Number 1403E01

Checklist completed by [signature] 3.15.14
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes __ No ✓

Proceed with Standard TAT as per project history? Yes ✓ No __ Not Applicable __

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by [signature]

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Prism Laboratories
Project: 4030246
Lab Order: 1403E01

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403E01-001A	WW-9S	3/11/2014 11:15:00AM	Aqueous	CHLORINATED HERBICIDES, APPENDIX IX LIS		03/17/2014	03/18/2014
1403E01-002A	WW-10S	3/11/2014 12:35:00PM	Aqueous	CHLORINATED HERBICIDES, APPENDIX IX LIS		03/17/2014	03/18/2014
1403E01-003A	WW-7S	3/11/2014 4:05:00PM	Aqueous	CHLORINATED HERBICIDES, APPENDIX IX LIS		03/17/2014	03/18/2014
1403E01-004A	DUPLICATE	3/11/2014 12:00:00AM	Aqueous	CHLORINATED HERBICIDES, APPENDIX IX LIS		03/17/2014	03/18/2014
1403E01-005A	RINSE BLANK	3/11/2014 5:10:00PM	Aqueous	CHLORINATED HERBICIDES, APPENDIX IX LIS		03/17/2014	03/18/2014

Client: Prism Laboratories
Project Name: 4030246
Workorder: 1403E01

ANALYTICAL QC SUMMARY REPORT

BatchID: 188390

Sample ID: **MB-188390** Client ID: Units: **ug/L** Prep Date: **03/17/2014** Run No: **263523**
SampleType: **MBLK** TestCode: **CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A** BatchID: **188390** Analysis Date: **03/18/2014** Seq No: **5545227**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4,5-T	BRL	2.0									
2,4,5-TP (Silvex)	BRL	2.0									
2,4-D	BRL	2.0									
Dinoseb	BRL	5.0									
Surr: DCAA	5.500	0	5.000		110	43.6	155				

Sample ID: **LCS-188390** Client ID: Units: **ug/L** Prep Date: **03/17/2014** Run No: **263523**
SampleType: **LCS** TestCode: **CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A** BatchID: **188390** Analysis Date: **03/18/2014** Seq No: **5545230**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4,5-T	4.852	2.0	5.000		97.0	59	138				
2,4,5-TP (Silvex)	4.844	2.0	5.000		96.9	62.3	140				
2,4-D	5.037	2.0	5.000		101	56.2	136				
Surr: DCAA	5.544	0	5.000		111	43.6	155				

Sample ID: **1403E01-001AMS** Client ID: **WW-9S** Units: **ug/L** Prep Date: **03/17/2014** Run No: **263523**
SampleType: **MS** TestCode: **CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A** BatchID: **188390** Analysis Date: **03/18/2014** Seq No: **5545246**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4,5-T	5.122	2.0	5.000		102	50.5	145				
2,4,5-TP (Silvex)	5.089	2.0	5.000		102	53.2	151				
2,4-D	5.158	2.0	5.000		103	41.8	142				
Surr: DCAA	5.413	0	5.000		108	43.6	155				

Sample ID: **1403E01-001AMSD** Client ID: **WW-9S** Units: **ug/L** Prep Date: **03/17/2014** Run No: **263523**
SampleType: **MSD** TestCode: **CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A** BatchID: **188390** Analysis Date: **03/18/2014** Seq No: **5545250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Prism Laboratories
Project Name: 4030246
Workorder: 1403E01

ANALYTICAL QC SUMMARY REPORT

BatchID: 188390

Sample ID: **1403E01-001AMSD** Client ID: **WW-9S** Units: **ug/L** Prep Date: **03/17/2014** Run No: **263523**
SampleType: **MSD** TestCode: **CHLORINATED HERBICIDES, APPENDIX IX LIST SW8151A** BatchID: **188390** Analysis Date: **03/18/2014** Seq No: **5545250**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2,4,5-T	5.118	2.0	5.000		102	50.5	145	5.122	0.074	34.4	
2,4,5-TP (Silvex)	5.229	2.0	5.000		105	53.2	151	5.089	2.71	29.7	
2,4-D	5.140	2.0	5.000		103	41.8	142	5.158	0.350	34.6	
Surr: DCAA	5.220	0	5.000		104	43.6	155	5.413	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Upgradient Well WW-7S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-95	Mar-96	Oct-96	Oct-96 Duplicate	Mar-97	Sep-97	Sep-97 Duplicate	Mar-98	Sep-98	Sep-98 Duplicate	Mar-99	Sep-99	Sep-99 Duplicate	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Aug-02	Mar-03	Nov-03	Mar-04
Volatile Organic Compounds [1] by Method 8260B (µg/L)																								
Benzene	1	1	NA	**11**	**13**	**14**	**19**	**15**	**12**	**14**	**11**	**13**	**11**	**9.6**	**9.6**	**10.0**	**11.0**	**8.4**	**7.2**	**5.8**	BQL	BQL	**2.3**	**3.5**
Ethylbenzene	600	550	NA	**12**	**12**	**12**	**14**	**13**	**13**	**6.9**	**6.2**	**7.3**	**8.8**	**8.1**	**8.6**	**11.0**	**11.0**	**12**	**12**	**9.0**	**5.2**	BQL	**2.6**	**1.5**
Xylenes	500	530	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**5.9 J**	**6.0 J**	BQL	BQL	BQL	BQL	**2.3**	BQL
Chloromethane	3	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Diisopropyl ether	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Isopropylbenzene	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	6	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
n-Propylbenzene	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																								
Aniline	NE	20	BQL	**19**	BQL	**13**	**21**	BQL	**10**	BQL	BQL	BQL	**82**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**62**
N-nitrosodimethylamine	0.0007	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	**16**	**22**	**22**	**23**	NA	NA	BQL	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methanol by Method 8015 (mg/L)	4	NE	BQL	NA	BQL	BQL	NA	BQL	BQL	NA	BQL	BQL	NA	**1.5**	BQL	NA	**1.2**	NA	BQL	NA	BQL	NA	BQL	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	BQL	BQL	BQL	BQL	NA	**54**	BQL	NA	BQL	BQL	NA	BQL	BQL	NA	BQL	NA	BQL	NA	BQL	BQL	BQL	NA
Metals by Method 6010 (mg/L)																								
Iron	0.3	NE	**260**	**160**	**160**	**150**	NA	**110**	**130**	NA	**94**	**76**	NA	**100**	**93**	NA	**120**	**100**	**110**	**190**	**130**	**220**	**120**	**180**
Manganese	0.05	NE	**49**	**42**	**29**	**28**	NA	**21**	**25**	NA	**16**	**14**	NA	**19**	**18**	NA	**25**	**24**	**37**	**47**	**44**	**52**	**43**	**52**
Other Inorganic Analyses (mg/L)																								
Chloride (325.2) [3]	250	NE	180	130	100	110	NA	**160**	**140**	NA	**150**	**150**	NA	**130**	**130**	NA	**91**	NA	**72**	NA	**49**	NA	**47**	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	BQL	BQL	BQL	BQL	NA	BQL	BQL	NA	BQL	BQL	NA	BQL	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Upgradient Well WW-7S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-04	Mar-05	Sep-05	Sep-05 Duplicate	Mar-06	Mar-06 Duplicate	Sep-06	Sep-06 Duplicate	Mar-07	Mar-07 Duplicate	Sep-07	Sep-07 Duplicate	Mar-08	Mar-08 Duplicate	Sep-08	Sep-08 Duplicate	Mar-09	Mar-09 Duplicate	Sep-09	Sep-09 Duplicate	Mar-10
Volatile Organic Compounds [1] by Method 8260B (µg/L)																							
Benzene	1	1	**4.6**	**11**	**6.8**	**6.6**	**4.2**	**4.7**	**3.4**	**3.1**	**1.7**	**2**	**1.65**	**1.48**	**1.21**	**1.30**	**1.39**	**1.37**	**1.20**	**1.27**	<1.0	<1.0	<1.0
Ethylbenzene	600	550	**1.4**	BQL	**1.8**	**1.4**	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	500	530	BQL	BQL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	3	NE	BQL	BQL	**2.3**	<1.0	<1.0	<1.0	**3.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	<1.0	<1.0	<1.0	<1.0	**1.24**	**1.27**	**1.64**	**1.64**	**2.67**	**2.80**	**2.97**
Isopropylbenzene	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	<1.0	<1.0	**1.01**	**1.01**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.06**
Naphthalene	6	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	<9.7	<9.7	<1.0	<1.0	**1.44**	**1.43**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																							
Aniline	NE	20	BQL	BQL	NA	NA	**110**	**150**	**120**	**98**	**66**	**72**	**10.6**	**10.1**	**55.4**	**86.9**	**54.3**	**50.1**	**34.9**	**37.4**	**26.0**	**33.8**	**62.5**
N-nitrosodimethylamine	0.0007	NE	BQL	BQL	<47	<47	<9.8	<10	<10	<9.5	<9.7	<9.7	<10	<10.0	<10.0	<10.0	<5.89	NA	NA	NA	NA	NA	NA
Methanol by Method 8015 (mg/L)	4	NE	**1.8**	NA	<1.0	<1.0	NA	NA	**2.1**	<1	NA	NA	<3.0	<3.0	NA	NA	<3.0	<3.0	NA	NA	<3.0	<3.0	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	BQL	NA	<50	<50	NA	NA	<50	<50	NA	NA	**333**	**254**	NA	NA	<50	**56**	NA	NA	<176	<176	NA
Metals by Method 6010 (mg/L)																							
Iron	0.3	NE	**86**	NA	**150**	**160**	NA	NA	**89**	**78**	NA	NA	**215**	**181**	NA	NA	**125**	**133**	NA	NA	**132**	**133**	NA
Manganese	0.05	NE	**34**	NA	**40**	**39**	NA	NA	**43**	**39**	NA	NA	**59.6**	**47.2**	NA	NA	**30.0**	**30.9**	NA	NA	**22.8**	**23.0**	NA
Other Inorganic Analyses (mg/L)																							
Chloride (325.2) [3]	250	NE	**41**	NA	**48**	**48**	NA	NA	**51**	**53**	NA	NA	**50**	**48**	NA	NA	**39.6**	**39.8**	NA	NA	**36.8**	**36.7**	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	BQL	NA	**0.12**	**0.12**	NA	NA	**0.072**	**0.095**	NA	NA	<0.02	<0.02	NA	NA	<0.300	<0.300	NA	NA	<0.300	<0.300	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Upgradient Well WW-7S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Mar-10	Sep-10	Sep-10	Mar-11	Mar-11	Sep-11	Sep-11	Mar-12	Mar-12	Sep-12	Sep-12	Mar-13	Mar-13	Sep-13	Mar-14	Mar-14
			Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate			Duplicate
Volatile Organic Compounds [1] by Method 8260B (µg/L)																		
Benzene	1	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.23**	**2.03**	**1.95**	**1.8**	**1.7**	**1.4**	**1.7**	**1.7**
Ethylbenzene	600	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.28 J**	**0.27 J**	<0.067	<0.067	<0.067
Xylenes	500	530	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**0.56 J**	**0.51 J**	<0.13	<0.081	<0.081
Chloromethane	3	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.11	<0.11	<0.11	<0.11	<0.11
Diisopropyl ether	70	NE	**3.08**	**2.92**	**2.98**	**3.12**	**3.18**	**3.31**	**3.05**	**2.79**	**2.95**	**3.12**	**3.21**	**2.8**	**2.6**	**1.9**	**1.9**	**1.9**
Isopropylbenzene	70	NE	**1.09**	**1.09**	**1.10**	**1.15**	**1.14**	**1.61**	**1.50**	**1.29**	**1.45**	<1.0	<1.0	**2.0**	**1.9**	**1.1**	<0.072	<0.072
Naphthalene	6	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0098	<0.098	<0.098	<0.098	<0.098
n-Propylbenzene	70	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.1**	**1.1**	<0.060	<0.060	<0.060
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																		
Aniline	NE	20	**70.7**	**61.4**	**62.8**	**56.0**	**52.7**	**57.3**	**59.7**	**63.6**	**69.4**	**62.9**	**58.9**	**32**	**38**	**32**	**34**	**33**
N-nitrosodimethylamine	0.0007	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	<1.6	<1.6	<3.7	<3.6
Methanol by Method 8015 (mg/L)	4	NE	NA	<10	<10	NA	NA	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	NA	**244**	**281**	NA	NA	**71.8 K**	<6.44	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals by Method 6010 (mg/L)																		
Iron	0.3	NE	NA	**47.9**	**41.3**	NA	NA	**1.21**	**0.701**	NA	NA	**79.2**	**76.5**	NA	NA	**31**	NA	NA
Manganese	0.05	NE	NA	**19.4**	**20.7**	NA	NA	**17.8**	**17.4**	NA	NA	**14.8**	**15**	NA	NA	**13**	NA	NA
Other Inorganic Analyses (mg/L)																		
Chloride (325.2) [3]	250	NE	NA	**37.0**	**38.1**	NA	NA	**35.6**	**36.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	NA	<0.300	<0.300	NA	NA	<0.300	<0.300	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

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Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Downgradient Well WW-9S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-95	Mar-96	Oct-96	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Aug-02	Mar-03	Nov-03	Mar-04	Sep-04
Volatile Organic Compounds [1] by Method 8260B (µg/L)																					
Benzene	1	1	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**25**	BQL	BQL	BQL
Methylene chloride	5	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**7.5**	BQL	BQL	BQL
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																					
Di-n-octylphthalate	100	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methanol by Method 8015 (mg/L)	4	NE	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	**2.4**	NA	BQL	NA	BQL	NA	BQL	NA	**1.9**
Formaldehyde by Method 8315 (µg/L)	600	NE	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL
Metals by Method 6010 (mg/L)																					
Iron	0.3	NE	**36**	NA	**0.97**	NA	**0.13**	NA	**2.8**	NA	**2.2**	NA	**2.6**	**5.1**	**0.85**	**6.8**	**2.5**	**7.5**	**6.3**	**2.0**	**1.7**
Manganese	0.05	NE	**2.8**	NA	**2.3**	NA	**2.5**	NA	**3.7**	NA	**4.9**	NA	**5.2**	**5.0**	**4.9**	**5.2**	**4.5**	**2.9**	**3.6**	**3.1**	**2.3**
Other Inorganic Analyses (mg/L)																					
Chloride (325.2) [3]	250	NE	**32**	NA	**28**	NA	**42**	NA	**37**	NA	**52**	NA	**48**	NA	**50**	NA	**51**	**29**	NA	NA	**24**
Nitrate-Nitrogen (353.2) [4]	10	NE	**15**	NA	**16**	NA	**9.8**	NA	**4.9**	NA	**2.4**	NA	**3.5**	NA	**2.2**	NA	**2.5**	BQL	NA	NA	**1.3**

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Downgradient Well WW-9S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Mar-05	Sep-05	Mar-06	Sep-06	Mar-07	Sep-07	Mar-08	Sep-08	Mar-09	Sep-09	Mar-10	Sep-10	Mar-11	Sep-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14
Volatile Organic Compounds [1] by Method 8260B (µg/L)																					
Benzene	1	1	BQL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.072	<0.072	<0.072
Methylene chloride	5	NE	BQL	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.44	<0.44	<0.44
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																					
Di-n-octylphthalate	100	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	<5.92	**8.04**	<5.55	<5.69	<5.21	<5.51	<5.07	<5.22	<2.2	<1.9	<2.1
Methanol by Method 8015 (mg/L)	4	NE	NA	<1.0	NA	<1.0	NA	<3.0	NA	<3.0	NA	<3.0	NA	<10	NA	<3.0	NA	NA	NA	NA	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	NA	<50	NA	<50	NA	<250	NA	<20	NA	<176	NA	<74.7	NA	**27.5 K**	NA	NA	NA	NA	NA
Metals by Method 6010 (mg/L)																					
Iron	0.3	NE	NA	<0.05	NA	<0.05	NA	**3.08**	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.012	NA
Manganese	0.05	NE	NA	**2.1**	NA	**2.7**	NA	**2.54**	NA	**2.27**	NA	**1.53**	NA	**1.13**	NA	**1.56**	NA	**1.12**	NA	**1.0**	NA
Other Inorganic Analyses (mg/L)																					
Chloride (325.2) [3]	250	NE	NA	**30**	NA	**44**	NA	**33**	NA	**38.3**	NA	**17.5**	NA	**14.1**	NA	**29.1**	NA	NA	NA	NA	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	NA	**1.4**	NA	**2.1**	NA	**1.07**	NA	**4.89**	NA	**1.79**	NA	**1.40**	NA	**1.08**	NA	NA	NA	NA	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Downgradient Well WW 10S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-95	Mar-96	Oct-96	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Mar-01	Sep-01	Mar-02	Aug-02	Mar-03	Nov-03	Mar-04	Sep-04	Mar-05	Sep-05
Volatile Organic Compounds [1] by Method 8260B (µg/L)																							
Chloromethane	3	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Butanone (MEK)	4,000	NE	NA	BQL	BQL	**44**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	<10
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																							
Isophorone	40	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**24**
2,4-Dinitrotoluene	NE	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**12**
2,6-Dinitrotoluene	NE	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**16**
bis (2-ethylhexyl) phthalate	3	NE	NA	BQL	BQL	**19**	BQL	**10**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	<9.4
Benzo[a]pyrene	0.005	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Benzo[b]fluoranthene	0.05	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methanol by Method 8015 (mg/L)	4	NE	BQL	NA	BQL	NA	BQL	NA	BQL	NA	**1.9**	NA	**2.6**	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	<1.0
Formaldehyde by Method 8315 (µg/L)	600	NE	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	<50
Metals by Method 6010 (mg/L)																							
Iron	0.3	NE	**28**	NA	**1.2**	NA	**1.2**	NA	**1.2**	NA	**1.9**	NA	**1.5**	**2.0**	**2.0**	**1.8**	**2.1**	**1.7**	**0.83**	**3.1**	**0.23**	NA	**8.8**
Manganese	0.05	NE	**2**	NA	**1.3**	NA	**1**	NA	**1.1**	NA	**0.65**	NA	**0.63**	**0.51**	**0.39**	**0.46**	**0.47**	**0.48**	**0.38**	**0.42**	**0.34**	NA	**0.48**
Other Inorganic Analyses (mg/L)																							
Chloride (325.2) [3]	250	NE	**69**	NA	**62**	NA	**82**	NA	**68**	NA	**67**	NA	**52**	NA	**35**	NA	**31**	NA	**28**	NA	**23**	NA	**19**
Nitrate-Nitrogen (353.2) [4]	10	NE	**12**	NA	**10**	NA	**7.9**	NA	**4.3**	NA	**4.2**	NA	**3.1**	NA	**4.2**	NA	**3.5**	NA	**2.7**	NA	**1.9**	NA	**1.8**

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

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Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

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3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Downgradient Well WW 10S
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Mar-06	Sep-06	Mar-07	Sep-07	Mar-08	Sep-08	Mar-09	Sep-09	Mar-10	Sep-10	Mar-11	Sep-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14
Volatile Organic Compounds [1] by Method 8260B (µg/L)																			
Chloromethane	3	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.39**	<1.0	<1.0	<1.0	<1.0	<0.11	<0.11	<0.11
2-Butanone (MEK)	4,000	NE	<10	<10	<10	<1.0	<1.0	<1.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<0.90	<0.90	<0.90
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																			
Isophorone	40	NE	<9.4	<9.4	<9.7	<10	<10	<5.12	<5.34	<5.92	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<2.5	<2.4	<2.7
2,4-Dinitrotoluene	NE	NE	<9.4	<9.4	<9.7	<50	<50	<5.12	<5.34	<5.92	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<0.98	<0.95	<1.0
2,6-Dinitrotoluene	NE	NE	<9.4	<9.4	<9.7	<50	<50	<5.12	<5.34	<5.92	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<1.7	<1.6	<1.8
bis (2-ethylhexyl) phthalate	3	NE	<9.4	<9.4	<9.7	<10	<10	<5.12	<5.34	<5.92	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<1.8	<1.8	<1.9
Benzo[a]pyrene	0.005	NE	BQL	BQL	BQL	BQL	BQL	BQL	<5.34	**8.18**	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<1.1	<1.1	<1.2
Benzo[b]fluoranthene	0.05	NE	BQL	BQL	BQL	BQL	BQL	BQL	<5.34	**7.58**	<5.43	<5.22	<5.22	<5.74	<5.39	<5.29	<1.4	<1.4	<1.5
Methanol by Method 8015 (mg/L)	4	NE	NA	<1.0	NA	<3.0	NA	<3.0	NA	<3.0	NA	<10	NA	<3.0	NA	NA	NA	NA	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	NA	<50	NA	<250	NA	<50	NA	<176	NA	<74.7	NA	**30.1 K**	NA	NA	NA	NA	NA
Metals by Method 6010 (mg/L)																			
Iron	0.3	NE	NA	**0.12**	NA	**1.12**	NA	<0.100	NA	**1.40**	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.012	NA
Manganese	0.05	NE	NA	**0.34**	NA	**0.271**	NA	**0.341**	NA	**0.311**	NA	**0.280**	NA	**0.307**	NA	**0.344**	NA	**0.28**	NA
Other Inorganic Analyses (mg/L)																			
Chloride (325.2) [3]	250	NE	NA	**28**	NA	**29**	NA	**22.5**	NA	**22.8**	NA	**20.8**	NA	**27.2**	NA	NA	NA	NA	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	NA	**1.5**	NA	**1.34**	NA	**3.11**	NA	**2.76**	NA	**1.66**	NA	**2.29**	NA	NA	NA	NA	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

Downgradient Well WW-10D
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-95	Mar-96	Oct-96	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00	Sep-00	Sep-00 Duplicate	Mar-01	Sep-01	Mar-02	Aug-02	Mar-03	Nov-03	Mar-04	Sep-04	Mar-05	Mar-05 Duplicate
Volatile Organic Compounds [1] by Method 8260B (µg/L)																								
Benzene	1	1	NA	**18**	**21**	**18**	**8.6**	**16**	**12**	**13**	**22**	**13**	**18**	**15**	**15**	**21**	**26**	**6.4**	BQL	**25**	**28**	**24**	**16**	**16**
Chlorobenzene	50	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	BQL	BQL	BQL
1,2-Dichloroethane	0.4	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	BQL	BQL	BQL
Ethylbenzene	600	550	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	BQL	BQL	BQL
4-Isopropyltoluene	25	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	BQL	BQL	BQL
Naphthalene	6	NE	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	BQL	BQL	BQL
Toluene	600	1,000	**31**	**12**	**19**	**14**	**6.6**	**9.2**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**4.1**	**4.2**	**2.6**	**1.4**	**1.5**
Xylenes	500	530	NA	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQl	**3.6**	**3.0**	**2.9**	BQL	BQL
Acetone	6,000	NE	NA	**4.6**	**52**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**4.6**	BQL	BQL	BQL	BQL
Chloroform	70	NE	**3.4**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.0**	**1.1**	**1.2**	BQL	BQL
Methylene chloride	5	NE	NA	**7.2**	**9.8**	**5.4**	BQL	BQL	BQL	BQL	BQL	**5.6**	**6.9**	**7.1**	BQL	**5.9**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vinyl chloride	0.03	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.5**	**1.8**	**1.4**	BQL	BQL
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																								
Aniline	NE	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	<20	<20	BQL
N-Nitrosodimethylamine	0.0007	NE	NA	BQL	BQL	**11**	BQL	BQL	BQL	**14**	NR	BQL	NR	NR	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methanol by Method 8015 (mg/L)	4	NE	BQL	NA	BQL	NA	BQL	NA	BQL	NA	**2.3**	NA	**3.2**	**1.4**	NA	BQL	NA	BQL	NA	BQL	NA	**1.7**	NA	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	BQL	BQL	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	BQL	NA	BQL	NA	BQL	NA	BQL	NA	BQL	NA	NA
Metals by Method 6010 (mg/L)																								
Iron	0.3	NE	**4.4**	**4.4**	**6.3**	NA	**2.0**	NA	**4.9**	NA	**6.1**	NA	**4.8**	**4.9**	**5.0**	**5.3**	**6.0**	**1.7**	**6.4**	**6.4**	**6.3**	**6.1**	NA	NA
Manganese	0.05	NE	**44**	**37**	**40**	NA	**35**	NA	**33**	NA	**35**	NA	**35**	**36**	**34**	**36**	**37**	**24**	**39**	**38**	**37**	**33**	NA	NA
Other Inorganic Analyses (mg/L)																								
Chloride (325.2) [3]	250	NE	**650**	**640**	**540**	NA	**670**	NA	**450**	NA	**520**	NA	**450**	**420**	NA	**580**	NA	**370**	NA	**640**	NA	**540**	NA	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	NA	NA	BQL	NA	**0.056**	NA	BQL	NA	BQL	NA	BQL	BQL	NA	**0.15**	NA	BQL	NA	BQL	NA	**0.21**	NA	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

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Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

E - Estimated concentration above the calibration range.

Downgradient Well WW-10D
Summary of Historical Laboratory Analytical Results

Analytical Method	NC 2L Standard	RCRA Groundwater Protection Standard	Sep-05	Mar-06	Sep-06	Mar-07	Sep-07	Mar-08	Sep-08	Mar-09	Sep-09	Mar-10	Sep-10	Mar-11	Sep-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14
Volatile Organic Compounds [1] by Method 8260B (µg/L)																				
Benzene	1	1	**23**	**17**	**22**	**26**	**21.6**	**21.9**	**28.5**	**27.2**	**22.4**	**26.0**	**23.5**	**25.4**	**24.0**	**24.2**	**30.7**	**31**	**24**	**32**
Chlorobenzene	50	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.55**	**0.52**	**0.54**
1,2-Dichloroethane	0.4	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.49 J**	<0.14	<0.14
Ethylbenzene	600	550	**1**	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.1**	**1.1**
4-Isopropyltoluene	NE	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.3**	<0.065	<0.065
Naphthalene	6	NE	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.64 J**	**0.80 J**	**0.66 J**
Toluene	600	1,000	**3.4**	**1.7**	**1.6**	**1.5**	**1.14**	**1.12**	**1.02**	<1.0	<1.0	**1.06**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.77**	**0.70**	**0.79**
Xylenes	500	530	**5.1**	<2.0	**3.8**	**3**	**2.82**	<2.0	**3.24**	**2.61**	<2.0	**2.97**	<2.0	**2.18**	**2.36**	**2.64**	**2.72**	**4.11**	**4.3**	**4.1**
Acetone	6,000	NE	<25	<25	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<0.62	<0.62	<0.62
Chloroform	70	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.25 J**	<0.089	<0.089
Methylene chloride	5	NE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1.2**	**0.90 J**	**1.5**
Vinyl chloride	0.03	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.37 J**	<0.16	<0.16
Semi-volatile Organic Compounds [2] by Method 8270 (µg/L)																				
Aniline	NE	20	NA	<19	**30**	**26**	<10	**34.3**	**24.0**	**12.0**	**16.5**	**47.5**	**33.1**	**10.1**	**29.7**	**18.2**	**12.0**	**5.8 J**	**7.3 J**	**9.6**
N-Nitrosodimethylamine	0.0007	NE	<9.4	<9.6	<9.6	<9.7	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	<1.6	NA
Methanol by Method 8015 (mg/L)	4	NE	<1.0	NA	<1.0	NA	<3.0	NA	<3.0	NA	<3.0	NA	<10	NA	<3.0	NA	NA	NA	NA	NA
Formaldehyde by Method 8315 (µg/L)	600	NE	<50	NA	<50	NA	<250	NA	<50	NA	<176	NA	<74.7	NA	**77.4 K**	NA	NA	NA	NA	NA
Metals by Method 6010 (mg/L)																				
Iron	0.3	NE	**8.2**	NA	**4.9**	NA	**9.02**	NA	**11.8**	NA	**10.4**	NA	**6.35**	NA	**3.26**	NA	**5.75**	NA	**4.0**	NA
Manganese	0.05	NE	**36**	NA	**32**	NA	**35**	NA	**36.9**	NA	**29.8**	NA	**26.1**	NA	**25.7**	NA	**22.7**	NA	**20 E**	NA
Other Inorganic Analyses (mg/L)																				
Chloride (325.2) [3]	250	NE	**660**	NA	**590**	NA	**530**	NA	**571**	NA	**509**	NA	**468**	NA	**468**	NA	**259**	NA	**540**	NA
Nitrate-Nitrogen (353.2) [4]	10	NE	<0.05	NA	**0.096**	NA	<0.02	NA	<0.300	NA	<0.300	NA	<0.300	NA	<0.300	NA	NA	NA	NA	NA

Notes:

Target analytes not listed were not reported above the laboratory reporting Limit

NC 2L Standard - Title 15A NCAC 02L.0202 Groundwater Quality Standard

1 VOC Analyses Notes:

In 1995, Method 8020 was used to target toluene, and Method 8010 was used to target chloroform. No other VOCs were reported.

In 1996, VOC analyses were performed using SW-846 Method 8240. Target analytes not shown were reported as BQL.

Since 1997, VOC analyses have been performed using SW-846 Method 8260. Target analytes not shown were reported as BQL.

2 SVOC Analyses Notes:

In 1995, the only target analytes reported were aniline and nitrobenzene. Nitrobenzene results are not shown, as all analyses were reported as BQL.

Since 1996, all analytes not shown were reported as BQL.

3 Starting in September 2007 chloride is analyzed by Method 300.0

4 Starting in September 2007 nitrate-N is analyzed by Method 300.0

µg/L - micrograms per liter

mg/L - milligrams per liter

BQL - Below quantitation limit

NA - This analyses was not performed in this sampling event.

J - Estimated result above the method detection limit but below the reporting limit

Bold values represent concentrations above the laboratory reporting limit.

Shaded cells indicate value exceeds the RCRA Groundwater Protection Standard or the NC 2L Standard if no RCRA Standard established.

E - Estimated concentration above the calibration range.