



APPENDIX A

Laboratory Reports and Chain of Custody Documentation

Euophins Lancaster Laboratories

ID Numbers:

1688263

1696840

1721422

1722241

1722869

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: August 03, 2016

Project: Carroll Madonna

Submittal Date: 07/28/2016
Group Number: 1688263
PO Number: 0402995-06-209
Release Number: MADONNA
State of Sample Origin: MD

Client Sample Description

3922 GREENPEAK-INF Grab Potable Water
3921 GREENPEAK-EFF Grab Potable Water
3921 GREENPEAK-MID Grab Potable Water
3921 GREENPEAK-INF Grab Potable Water

Lancaster Labs

(LL) #

8498035
8498036
8498037
8498038

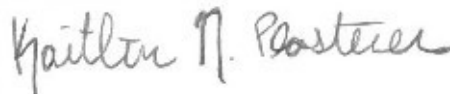
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

Electronic Copy To GES, Inc.-MD
Electronic Copy To GES Inc.

Attn: Data Distribution
Attn: Pete Reichardt

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: 3922 GREENPEAK-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8498035
LL Group # 1688263
Account # 08390

Project Name: Carroll Madonna

Collected: 07/28/2016 09:10 by LK

GES, Inc.

Submitted: 07/28/2016 16:25

Suite A

Reported: 08/03/2016 14:28

1350 Blair Dr

Odenton MD 21113

3922I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	7.5	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162121AA	07/30/2016 19:07	Joshua S Hess	1

Sample Description: 3921 GREENPEAK-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8498036
LL Group # 1688263
Account # 08390

Project Name: Carroll Madonna

Collected: 07/28/2016 10:00 by LK

GES, Inc.

Submitted: 07/28/2016 16:25

Suite A

Reported: 08/03/2016 14:28

1350 Blair Dr

Odenton MD 21113

3921E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162121AA	07/30/2016 19:30	Joshua S Hess	1

Sample Description: 3921 GREENPEAK-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8498037
LL Group # 1688263
Account # 08390

Project Name: Carroll Madonna

Collected: 07/28/2016 10:05 by LK

GES, Inc.

Submitted: 07/28/2016 16:25

Suite A

Reported: 08/03/2016 14:28

1350 Blair Dr

Odenton MD 21113

3921M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162121AA	07/30/2016 19:53	Joshua S Hess	1

Sample Description: 3921 GREENPEAK-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8498038
LL Group # 1688263
Account # 08390

Project Name: Carroll Madonna

Collected: 07/28/2016 10:10 by LK

GES, Inc.

Submitted: 07/28/2016 16:25

Suite A

Reported: 08/03/2016 14:28

1350 Blair Dr

Odenton MD 21113

3921I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	25	1.0	10
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.1 J	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162121AA	07/30/2016 20:17	Joshua S Hess	1
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162141AA	08/01/2016 19:35	Don V Viray	10

Quality Control Summary

Client Name: GES, Inc.
Reported: 08/03/2016 14:28

Group Number: 1688263

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: K162121AA	Sample number(s): 8498035-8498038	
t-Amyl Methyl Ether	N.D.	0.1
Benzene	N.D.	0.1
t-Butyl Alcohol	N.D.	2.5
Carbon Tetrachloride	N.D.	0.1
Chlorobenzene	N.D.	0.1
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
Ethyl t-Butyl Ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.3
Naphthalene	N.D.	0.2
Styrene	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.2
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1
Batch number: K162141AA	Sample number(s): 8498038	
Methyl Tertiary Butyl Ether	N.D.	0.1

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: K162121AA	Sample number(s): 8498035-8498038								
t-Amyl Methyl Ether	5.00	4.18			84		70-130		
Benzene	5.00	4.84			97		70-130		
t-Butyl Alcohol	50	52.18			104		70-130		

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 08/03/2016 14:28

Group Number: 1688263

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	5.00	4.97			99		70-130		
Chlorobenzene	5.00	5.06			101		70-130		
1,2-Dichlorobenzene	5.00	5.73			115		70-130		
1,3-Dichlorobenzene	5.00	5.38			108		70-130		
1,2-Dichloroethane	5.00	5.39			108		70-130		
1,1-Dichloroethene	5.00	4.62			92		70-130		
cis-1,2-Dichloroethene	5.00	4.83			97		70-130		
trans-1,2-Dichloroethene	5.00	5.01			100		70-130		
1,2-Dichloropropane	5.00	5.36			107		70-130		
Ethyl t-Butyl Ether	5.00	4.71			94		70-130		
Ethylbenzene	5.00	4.88			98		70-130		
di-Isopropyl Ether	5.00	4.83			97		70-130		
Methyl Tertiary Butyl Ether	5.00	4.85			97		70-130		
Methylene Chloride	5.00	4.76			95		70-130		
Naphthalene	5.00	4.41			88		70-130		
Styrene	5.00	5.17			103		70-130		
Tetrachloroethene	5.00	4.63			93		70-130		
Toluene	5.00	4.84			97		70-130		
1,2,4-Trichlorobenzene	5.00	4.56			91		70-130		
1,1,1-Trichloroethane	5.00	4.89			98		70-130		
1,1,2-Trichloroethane	5.00	5.28			106		70-130		
Trichloroethene	5.00	4.66			93		70-130		
Vinyl Chloride	2.00	2.10			105		70-130		
Xylene (Total)	15	14.56			97		70-130		
Batch number: K162141AA	Sample number(s): 8498038								
Methyl Tertiary Butyl Ether	5.00	5.05			101		70-130		

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: K162121AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
8498035	85	106
8498036	83	104
8498037	83	104
8498038	83	105
Blank	87	104
LCS	103	112
Limits:	80-120	80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



Lancaster Laboratories
Environmental

Environmental Analysis Request/Chain of Custody

Acct. #

8390

Group #

168823
16888

Sample #

6498035-38

Client: Groundwater & Environmental Services, Inc. (GES)				Matrix			Analyses Requested						For Lab Use Only	
Project Name#: Carroll Madonna		Site ID #: 0402995		<input type="checkbox"/> Sediment	<input type="checkbox"/> Ground	<input type="checkbox"/> Surface	Preservation Codes						SF #: _____	
Project Manager: Peter Reichardt		P.O. #: 0402995-06-209		<input type="checkbox"/> Potable	<input checked="" type="checkbox"/> Water	<input type="checkbox"/> NPDES							SCR #: _____	
Sampler: <i>Lindsay Keeney</i>		PWSID #:		<input type="checkbox"/> Soil	<input type="checkbox"/> Other:							Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other		
Phone #: 800-220-3606 ext. 3726		Quote #:		Total # of Containers								Remarks		
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD														
Sample Identification		Collection		<input type="checkbox"/> Composite										
	Date	Time	Grab											
3922 GREENPEAK-INF	7/28/16	0910	X				3	X						EDD file name:
3922 GREENPEAK-INF	7/28/16	0910	X				3	X						Carroll Madonna-
3921 GREENPEAK-EFF		1000	X				3	X						lab report
3921 GREENPEAK-MID		1005	X				3	X						#.21993.EQEDD.zip
3921 GREENPEAK-INF		1010	X				3	X						
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Relinquished by: <i>[Signature]</i>		Date	Time	Received by: <i>[Signature]</i>		Date	Time			
(Rush TAT is subject to laboratory approval and surcharges.)						7/28/16	1300			7-28-16	1:15			
Date results are needed:				Relinquished by: <i>[Signature]</i>		Date	Time	Received by: <i>[Signature]</i>		Date	Time			
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>						7-28-16	1:15			7-28-16	13:15			
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com				Relinquished by: <i>[Signature]</i>		Date	Time	Received by:		Date	Time			
Phone: 800-220-3606 x3717						7-29-16	16:25							
Data Package Options (please check if required)				Relinquished by:		Date	Time	Received by:		Date	Time			
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>											
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>											
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>											
NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by Commercial Carrier:		Date	Time	Received by: <i>[Signature]</i>		Date	Time			
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: EQEDD										7/28/16	16:25			
				UPS _____ FedEx _____ Other _____				Temperature upon receipt		3.5 °C				

Client: GWE

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 07/28/2016 16:25
 Number of Packages: 1 Number of Projects: 2
 State/Province of Origin: MD

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Karen Diem (3060) at 17:19 on 07/28/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT131	3.5	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: August 26, 2016

Project: Carroll Madonna

Submittal Date: 08/18/2016
Group Number: 1696840
PO Number: 0402995-06-209
Release Number: MADONNA
State of Sample Origin: MD

Client Sample Description

3914 Madonna-Eff Grab Potable Water
3914 Madonna-Mid Grab Potable Water
3914 Madonna-Inf Grab Potable Water

Lancaster Labs
(LL) #
8535812
8535813
8535814


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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

Electronic Copy To GES, Inc.-MD
Electronic Copy To GES Inc.

Attn: Data Distribution
Attn: Pete Reichardt

Respectfully Submitted,



Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: 3914 Madonna-Eff Grab Potable Water
4101 Norrisville Rd, Jarrettsville MD
Carroll Madonna

LL Sample # PW 8535812
LL Group # 1696840
Account # 08390

Project Name: Carroll Madonna

Collected: 08/16/2016 09:40 by JP

GES, Inc.

Submitted: 08/18/2016 13:54

Suite A

Reported: 08/26/2016 12:52

1350 Blair Dr

Odenton MD 21113

MADEF

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162361AA	08/23/2016 17:50	Don V Viray	1

Sample Description: 3914 Madonna-Mid Grab Potable Water
4101 Norrisville Rd, Jarrettsville MD
Carroll Madonna

LL Sample # PW 8535813
LL Group # 1696840
Account # 08390

Project Name: Carroll Madonna

Collected: 08/16/2016 09:45 by JP

GES, Inc.

Submitted: 08/18/2016 13:54

Suite A

Reported: 08/26/2016 12:52

1350 Blair Dr
Odenton MD 21113

MADMD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162361AA	08/23/2016 18:13	Don V Viray	1

Sample Description: 3914 Madonna-Inf Grab Potable Water
4101 Norrisville Rd, Jarrettsville MD
Carroll Madonna

LL Sample # PW 8535814
LL Group # 1696840
Account # 08390

Project Name: Carroll Madonna

Collected: 08/16/2016 09:50 by JP

GES, Inc.

Submitted: 08/18/2016 13:54

Suite A

Reported: 08/26/2016 12:52

1350 Blair Dr
Odenton MD 21113

MADIN

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	22	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	K162361AA	08/23/2016 18:36	Don V Viray	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 08/26/2016 12:52

Group Number: 1696840

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: K162361AA	Sample number(s): 8535812-8535814	
t-Amyl Methyl Ether	N.D.	0.1
Benzene	N.D.	0.1
t-Butyl Alcohol	N.D.	2.5
Carbon Tetrachloride	N.D.	0.1
Chlorobenzene	N.D.	0.1
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
Ethyl t-Butyl Ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.3
Naphthalene	N.D.	0.2
Styrene	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.2
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: K162361AA	Sample number(s): 8535812-8535814								
t-Amyl Methyl Ether	5.00	3.81			76		70-130		
Benzene	5.00	4.62			92		70-130		
t-Butyl Alcohol	50	49.11			98		70-130		
Carbon Tetrachloride	5.00	4.48			90		70-130		
Chlorobenzene	5.00	4.97			99		70-130		

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 08/26/2016 12:52

Group Number: 1696840

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	5.00	5.39			108		70-130		
1,3-Dichlorobenzene	5.00	5.19			104		70-130		
1,2-Dichloroethane	5.00	4.88			98		70-130		
1,1-Dichloroethene	5.00	4.80			96		70-130		
cis-1,2-Dichloroethene	5.00	4.59			92		70-130		
trans-1,2-Dichloroethene	5.00	5.06			101		70-130		
1,2-Dichloropropane	5.00	4.76			95		70-130		
Ethyl t-Butyl Ether	5.00	4.54			91		70-130		
Ethylbenzene	5.00	4.81			96		70-130		
di-Isopropyl Ether	5.00	4.86			97		70-130		
Methyl Tertiary Butyl Ether	5.00	4.75			95		70-130		
Methylene Chloride	5.00	4.86			97		70-130		
Naphthalene	5.00	3.89			78		70-130		
Styrene	5.00	4.95			99		70-130		
Tetrachloroethene	5.00	4.86			97		70-130		
Toluene	5.00	4.75			95		70-130		
1,2,4-Trichlorobenzene	5.00	4.27			85		70-130		
1,1,1-Trichloroethane	5.00	4.35			87		70-130		
1,1,2-Trichloroethane	5.00	4.91			98		70-130		
Trichloroethene	5.00	4.54			91		70-130		
Vinyl Chloride	2.00	2.11			105		70-130		
Xylene (Total)	15	14.3			95		70-130		

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: K162361AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
8535812	88	108
8535813	90	109
8535814	85	108
Blank	88	109
LCS	109	111
Limits:	80-120	80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Client: GES

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 08/18/2016 13:54
 Number of Packages: 1 Number of Projects: 2

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Karen Diem (3060) at 15:10 on 08/18/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT131	1.8	DT	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: November 07, 2016

Project: Carroll Madonna

Submittal Date: 10/14/2016
Group Number: 1721422
PO Number: 0402995-06-206
Release Number: ORG # 0404
State of Sample Origin: MD

Client Sample Description

	Lancaster Labs (LL) #
MW-1 Grab Groundwater	8645445
MW-2 Grab Groundwater	8645446
MW-3 Grab Groundwater	8645447
MW-4 Grab Groundwater	8645448
MW-4D Grab Groundwater	8645449
MW-5 Grab Groundwater	8645450
MW-5D Grab Groundwater	8645451
MW-6 Grab Groundwater	8645452
MW-6D Grab Groundwater	8645453

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To GES, Inc.-MD
Electronic Copy To GES Inc.

Attn: Data Distribution
Attn: Pete Reichardt

Respectfully Submitted,



Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-1 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645445
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:20 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM001

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	0.2 J	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	3.1	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-1 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645445
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:20 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM001

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	0.3 J	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	I162942AA	10/21/2016 05:24	Matthew S Krause	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I162942AA	10/21/2016 05:24	Matthew S Krause	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 14:24	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 14:24	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 18:32	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: MW-2 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645446
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 13:15 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM002

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	0.2 J	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	3.8	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-2 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645446
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 13:15 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM002

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	I162942AA	10/21/2016 06:06	Matthew S Krause	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I162942AA	10/21/2016 06:06	Matthew S Krause	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 15:19	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 15:19	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 18:55	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: **MW-3 Grab Groundwater**
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # **WW 8645447**
LL Group # **1721422**
Account # **08390**

Project Name: **Carroll Madonna**

Collected: 10/13/2016 13:40 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM003

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	0.2	0.1	1
02898	Chloromethane	74-87-3	0.2	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	1.5	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-3 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645447
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 13:40 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM003

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by	SW-846 8260B 25mL	1	I162942AA	10/21/2016 06:48	Matthew S Krause	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I162942AA	10/21/2016 06:48	Matthew S Krause	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 15:47	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 15:47	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 19:19	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: **MW-4 Grab Groundwater**
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # **WW 8645448**
LL Group # **1721422**
Account # **08390**

Project Name: **Carroll Madonna**

Collected: 10/13/2016 10:55 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM004

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	0.1 J	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-4 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645448
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:55 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM004

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	I162942AA	10/21/2016 05:45	Matthew S Krause	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I162942AA	10/21/2016 05:45	Matthew S Krause	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 16:14	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 16:14	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 19:42	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: **MW-4D Grab Groundwater**
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # **WW 8645449**
LL Group # **1721422**
Account # **08390**

Project Name: **Carroll Madonna**

Collected: 10/13/2016 11:10 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM04D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	0.5 J	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	7.2	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-4D Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645449
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 11:10 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM04D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	300	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	G162991AA	10/25/2016 22:16	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G162991AA	10/25/2016 22:16	Jason M Long	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 16:42	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 16:42	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/26/2016 17:35	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: MW-5 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645450
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 11:40 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM005

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	2.2	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-5 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645450
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 11:40 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM005

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	G162991AA	10/25/2016 22:39	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G162991AA	10/25/2016 22:39	Jason M Long	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 17:09	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 17:09	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 21:39	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: MW-5D Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645451
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 11:55 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM05D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	1.8	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-5D Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645451
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 11:55 by JP

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM05D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	240	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL	1	G162991AA	10/25/2016 23:02	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G162991AA	10/25/2016 23:02	Jason M Long	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 17:37	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 17:37	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/26/2016 17:58	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: MW-6 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645452
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 12:30 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM006

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	0.1 J	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	0.4 J	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	3.8	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	2.5	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-6 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645452
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 12:30 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM006

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	86 J	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	G163001AA	10/26/2016 10:20	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G163001AA	10/26/2016 10:20	Jason M Long	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 18:05	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 18:05	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/26/2016 18:21	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Sample Description: MW-6D Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645453
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 12:45 by JP

GES, Inc.

440 Creamery Way, Suite 500

Submitted: 10/14/2016 16:30

Exton PA 19341

Reported: 11/07/2016 11:35

CM06D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	1.0	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1

Sample Description: MW-6D Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 8645453
LL Group # 1721422
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 12:45 by JP

GES, Inc.

440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/14/2016 16:30

Reported: 11/07/2016 11:35

CM06D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l	ug/l	
	purge				
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles		SW-846 8015B	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCS- 25ml Water by 8260B	SW-846 8260B 25mL	1	G163001AA	10/26/2016 10:43	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G163001AA	10/26/2016 10:43	Jason M Long	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	16292A20A	10/18/2016 18:32	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16292A20A	10/18/2016 18:32	Brett W Kenyon	1
12858	TPH-DRO 8015B	SW-846 8015B	1	162930033A	10/20/2016 22:49	Amy Lehr	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	162930033A	10/20/2016 06:55	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: G162991AA	Sample number(s): 8645449-8645451	
Acrylonitrile	N.D.	1.0
t-Amyl methyl ether	N.D.	0.1
Benzene	N.D.	0.1
Bromobenzene	N.D.	0.1
Bromochloromethane	N.D.	0.1
Bromodichloromethane	N.D.	0.1
Bromoform	N.D.	0.1
Bromomethane	N.D.	0.1
t-Butyl Alcohol	N.D.	4.0
n-Butylbenzene	N.D.	0.1
sec-Butylbenzene	N.D.	0.1
tert-Butylbenzene	N.D.	0.1
Carbon Disulfide	N.D.	0.4
Chlorobenzene	N.D.	0.1
Chloroethane	N.D.	0.1
Chloroform	N.D.	0.1
Chloromethane	N.D.	0.2
2-Chlorotoluene	N.D.	0.1
4-Chlorotoluene	N.D.	0.1
1,2-Dibromo-3-chloropropane	N.D.	0.2
Dibromochloromethane	N.D.	0.1
1,2-Dibromoethane	N.D.	0.1
Dibromomethane	N.D.	0.1
trans-1,4-Dichloro-2-butene	N.D.	1.0
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,4-Dichlorobenzene	N.D.	0.1
Dichlorodifluoromethane	N.D.	0.1
1,1-Dichloroethane	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
1,3-Dichloropropane	N.D.	0.1
2,2-Dichloropropane	N.D.	0.1
1,1-Dichloropropene	N.D.	0.1
cis-1,3-Dichloropropene	N.D.	0.1
trans-1,3-Dichloropropene	N.D.	0.1
Ethyl t-butyl ether	N.D.	0.1

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Ethylbenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Isopropylbenzene	N.D.	0.1
p-Isopropyltoluene	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.2
Naphthalene	N.D.	0.1
n-Propylbenzene	N.D.	0.1
Styrene	N.D.	0.1
1,1,1,2-Tetrachloroethane	N.D.	0.1
1,1,2,2-Tetrachloroethane	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,3-Trichlorobenzene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.1
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Trichlorofluoromethane	N.D.	0.1
1,2,3-Trichloropropane	N.D.	0.3
1,2,4-Trimethylbenzene	N.D.	0.1
1,3,5-Trimethylbenzene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1
Batch number: G163001AA	Sample number(s): 8645452-8645453	
Acrylonitrile	N.D.	1.0
t-Amyl methyl ether	N.D.	0.1
Benzene	N.D.	0.1
Bromobenzene	N.D.	0.1
Bromochloromethane	N.D.	0.1
Bromodichloromethane	N.D.	0.1
Bromoform	N.D.	0.1
Bromomethane	N.D.	0.1
t-Butyl Alcohol	N.D.	4.0
n-Butylbenzene	N.D.	0.1
sec-Butylbenzene	N.D.	0.1
tert-Butylbenzene	N.D.	0.1
Carbon Disulfide	N.D.	0.4
Chlorobenzene	N.D.	0.1
Chloroethane	N.D.	0.1
Chloroform	N.D.	0.1
Chloromethane	N.D.	0.2
2-Chlorotoluene	N.D.	0.1
4-Chlorotoluene	N.D.	0.1
1,2-Dibromo-3-chloropropane	N.D.	0.2
Dibromochloromethane	N.D.	0.1
1,2-Dibromoethane	N.D.	0.1

*- Outside of specification

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

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Dibromomethane	N.D.	0.1
trans-1,4-Dichloro-2-butene	N.D.	1.0
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,4-Dichlorobenzene	N.D.	0.1
Dichlorodifluoromethane	N.D.	0.1
1,1-Dichloroethane	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
1,3-Dichloropropane	N.D.	0.1
2,2-Dichloropropane	N.D.	0.1
1,1-Dichloropropene	N.D.	0.1
cis-1,3-Dichloropropene	N.D.	0.1
trans-1,3-Dichloropropene	N.D.	0.1
Ethyl t-butyl ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Isopropylbenzene	N.D.	0.1
p-Isopropyltoluene	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.2
Naphthalene	N.D.	0.1
n-Propylbenzene	N.D.	0.1
Styrene	N.D.	0.1
1,1,1,2-Tetrachloroethane	N.D.	0.1
1,1,2,2-Tetrachloroethane	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,3-Trichlorobenzene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.1
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Trichlorofluoromethane	N.D.	0.1
1,2,3-Trichloropropane	N.D.	0.3
1,2,4-Trimethylbenzene	N.D.	0.1
1,3,5-Trimethylbenzene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1
Batch number: I162942AA	Sample number(s): 8645445-8645448	
Acrylonitrile	N.D.	1.0
t-Amyl methyl ether	N.D.	0.1
Benzene	N.D.	0.1
Bromobenzene	N.D.	0.1

*- Outside of specification

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

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Bromochloromethane	N.D.	0.1
Bromodichloromethane	N.D.	0.1
Bromoform	N.D.	0.1
Bromomethane	N.D.	0.1
t-Butyl Alcohol	N.D.	4.0
n-Butylbenzene	N.D.	0.1
sec-Butylbenzene	N.D.	0.1
tert-Butylbenzene	N.D.	0.1
Carbon Disulfide	N.D.	0.4
Chlorobenzene	N.D.	0.1
Chloroethane	N.D.	0.1
Chloroform	N.D.	0.1
Chloromethane	N.D.	0.2
2-Chlorotoluene	N.D.	0.1
4-Chlorotoluene	N.D.	0.1
1,2-Dibromo-3-chloropropane	N.D.	0.2
Dibromochloromethane	N.D.	0.1
1,2-Dibromoethane	N.D.	0.1
Dibromomethane	N.D.	0.1
trans-1,4-Dichloro-2-butene	N.D.	1.0
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,4-Dichlorobenzene	N.D.	0.1
Dichlorodifluoromethane	N.D.	0.1
1,1-Dichloroethane	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
1,3-Dichloropropane	N.D.	0.1
2,2-Dichloropropane	N.D.	0.1
1,1-Dichloropropene	N.D.	0.1
cis-1,3-Dichloropropene	N.D.	0.1
trans-1,3-Dichloropropene	N.D.	0.1
Ethyl t-butyl ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Isopropylbenzene	N.D.	0.1
p-Isopropyltoluene	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.2
Naphthalene	N.D.	0.1
n-Propylbenzene	N.D.	0.1
Styrene	N.D.	0.1
1,1,1,2-Tetrachloroethane	N.D.	0.1
1,1,2,2-Tetrachloroethane	N.D.	0.1
Tetrachloroethene	N.D.	0.1

*- Outside of specification

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

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Toluene	N.D.	0.1
1,2,3-Trichlorobenzene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.1
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Trichlorofluoromethane	N.D.	0.1
1,2,3-Trichloropropane	N.D.	0.3
1,2,4-Trimethylbenzene	N.D.	0.1
1,3,5-Trimethylbenzene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1
Batch number: 16292A20A	Sample number(s): 8645445-8645453	
TPH-GRO water C6-C10	N.D.	20
Batch number: 162930033A	Sample number(s): 8645445-8645453	
DRO C10-C28	N.D.	45

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: G162991AA	Sample number(s): 8645449-8645451								
Acrylonitrile	25	28.67			115		68-135		
t-Amyl methyl ether	5.00	5.13			103		80-120		
Benzene	5.00	5.36			107		80-120		
Bromobenzene	5.00	5.41			108		80-120		
Bromochloromethane	5.00	5.68			114		80-125		
Bromodichloromethane	5.00	5.09			102		80-120		
Bromoform	5.00	5.57			111		62-128		
Bromomethane	5.00	4.80			96		62-131		
t-Butyl Alcohol	50	63.29			127		64-146		
n-Butylbenzene	5.00	5.22			104		80-120		
sec-Butylbenzene	5.00	5.36			107		80-120		
tert-Butylbenzene	5.00	5.38			108		80-120		
Carbon Disulfide	5.00	5.33			107		65-120		
Chlorobenzene	5.00	5.55			111		80-120		
Chloroethane	5.00	4.55			91		63-125		
Chloroform	5.00	5.19			104		80-120		
Chloromethane	5.00	4.11			82		55-126		
2-Chlorotoluene	5.00	5.39			108		80-120		
4-Chlorotoluene	5.00	5.47			109		80-120		
1,2-Dibromo-3-chloropropane	5.00	5.79			116		63-134		
Dibromochloromethane	5.00	5.55			111		78-127		

*- Outside of specification

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromoethane	5.00	5.87			117		80-120		
Dibromomethane	5.00	5.80			116		80-122		
trans-1,4-Dichloro-2-butene	25	42.52			170		10-188		
1,2-Dichlorobenzene	5.00	5.48			110		80-120		
1,3-Dichlorobenzene	5.00	5.44			109		80-120		
1,4-Dichlorobenzene	5.00	5.37			107		80-120		
Dichlorodifluoromethane	5.00	3.05			61		35-142		
1,1-Dichloroethane	5.00	5.12			102		75-120		
1,2-Dichloroethane	5.00	5.30			106		72-127		
1,1-Dichloroethene	5.00	4.89			98		76-120		
cis-1,2-Dichloroethene	5.00	5.35			107		80-120		
trans-1,2-Dichloroethene	5.00	5.37			107		80-120		
1,2-Dichloropropane	5.00	5.47			109		80-120		
1,3-Dichloropropane	5.00	5.51			110		80-120		
2,2-Dichloropropane	5.00	4.95			99		73-121		
1,1-Dichloropropene	5.00	4.98			100		77-120		
cis-1,3-Dichloropropene	5.00	5.67			113		80-124		
trans-1,3-Dichloropropene	5.00	5.58			112		77-121		
Ethyl t-butyl ether	5.00	4.86			97		75-120		
Ethylbenzene	5.00	5.29			106		80-120		
Hexachlorobutadiene	5.00	4.85			97		69-120		
di-Isopropyl Ether	5.00	4.85			97		72-120		
Isopropylbenzene	5.00	5.30			106		80-120		
p-Isopropyltoluene	5.00	5.24			105		80-120		
Methyl Tertiary Butyl Ether	5.00	5.24			105		80-120		
Methylene Chloride	5.00	5.23			105		80-120		
Naphthalene	5.00	5.31			106		64-123		
n-Propylbenzene	5.00	5.29			106		79-120		
Styrene	5.00	5.42			108		80-120		
1,1,1,2-Tetrachloroethane	5.00	5.23			105		80-120		
1,1,2,2-Tetrachloroethane	5.00	5.27			105		75-123		
Tetrachloroethene	5.00	5.40			108		80-120		
Toluene	5.00	5.36			107		80-120		
1,2,3-Trichlorobenzene	5.00	5.18			104		66-120		
1,2,4-Trichlorobenzene	5.00	5.12			102		67-120		
1,1,1-Trichloroethane	5.00	5.18			104		79-120		
1,1,2-Trichloroethane	5.00	5.51			110		80-120		
Trichloroethene	5.00	5.33			107		80-120		
Trichlorofluoromethane	5.00	5.05			101		71-131		
1,2,3-Trichloropropane	5.00	5.72			114		80-125		
1,2,4-Trimethylbenzene	5.00	5.20			104		80-120		
1,3,5-Trimethylbenzene	5.00	5.25			105		80-120		
Vinyl Chloride	5.00	4.44			89		62-128		
Xylene (Total)	15	16.14			108		80-120		
Batch number: G163001AA	Sample number(s): 8645452-8645453								
Acrylonitrile	25	28.7			115		68-135		
t-Amyl methyl ether	5.00	4.93			99		80-120		

*- Outside of specification

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P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzene	5.00	5.16			103		80-120		
Bromobenzene	5.00	5.46			109		80-120		
Bromochloromethane	5.00	5.38			108		80-125		
Bromodichloromethane	5.00	4.86			97		80-120		
Bromoform	5.00	5.36			107		62-128		
Bromomethane	5.00	4.40			88		62-131		
t-Butyl Alcohol	50	63.25			127		64-146		
n-Butylbenzene	5.00	5.26			105		80-120		
sec-Butylbenzene	5.00	5.39			108		80-120		
tert-Butylbenzene	5.00	5.34			107		80-120		
Carbon Disulfide	5.00	4.87			97		65-120		
Chlorobenzene	5.00	5.37			107		80-120		
Chloroethane	5.00	4.32			86		63-125		
Chloroform	5.00	5.03			101		80-120		
Chloromethane	5.00	3.65			73		55-126		
2-Chlorotoluene	5.00	5.47			109		80-120		
4-Chlorotoluene	5.00	5.45			109		80-120		
1,2-Dibromo-3-chloropropane	5.00	6.11			122		63-134		
Dibromochloromethane	5.00	5.37			107		78-127		
1,2-Dibromoethane	5.00	5.69			114		80-120		
Dibromomethane	5.00	5.54			111		80-122		
trans-1,4-Dichloro-2-butene	25	45.19			181		10-188		
1,2-Dichlorobenzene	5.00	5.45			109		80-120		
1,3-Dichlorobenzene	5.00	5.39			108		80-120		
1,4-Dichlorobenzene	5.00	5.43			109		80-120		
Dichlorodifluoromethane	5.00	2.58			52		35-142		
1,1-Dichloroethane	5.00	4.91			98		75-120		
1,2-Dichloroethane	5.00	5.14			103		72-127		
1,1-Dichloroethene	5.00	4.69			94		76-120		
cis-1,2-Dichloroethene	5.00	5.16			103		80-120		
trans-1,2-Dichloroethene	5.00	5.12			102		80-120		
1,2-Dichloropropane	5.00	5.30			106		80-120		
1,3-Dichloropropane	5.00	5.34			107		80-120		
2,2-Dichloropropane	5.00	4.77			95		73-121		
1,1-Dichloropropene	5.00	4.82			96		77-120		
cis-1,3-Dichloropropene	5.00	5.34			107		80-124		
trans-1,3-Dichloropropene	5.00	5.26			105		77-121		
Ethyl t-butyl ether	5.00	4.66			93		75-120		
Ethylbenzene	5.00	5.11			102		80-120		
Hexachlorobutadiene	5.00	4.96			99		69-120		
di-Isopropyl Ether	5.00	4.62			92		72-120		
Isopropylbenzene	5.00	5.20			104		80-120		
p-Isopropyltoluene	5.00	5.25			105		80-120		
Methyl Tertiary Butyl Ether	5.00	5.09			102		80-120		
Methylene Chloride	5.00	5.00			100		80-120		
Naphthalene	5.00	5.37			107		64-123		
n-Propylbenzene	5.00	5.30			106		79-120		
Styrene	5.00	5.24			105		80-120		

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,1,2-Tetrachloroethane	5.00	5.12			102		80-120		
1,1,2,2-Tetrachloroethane	5.00	5.37			107		75-123		
Tetrachloroethene	5.00	5.25			105		80-120		
Toluene	5.00	5.21			104		80-120		
1,2,3-Trichlorobenzene	5.00	5.21			104		66-120		
1,2,4-Trichlorobenzene	5.00	5.14			103		67-120		
1,1,1-Trichloroethane	5.00	4.94			99		79-120		
1,1,2-Trichloroethane	5.00	5.34			107		80-120		
Trichloroethene	5.00	5.20			104		80-120		
Trichlorofluoromethane	5.00	4.89			98		71-131		
1,2,3-Trichloropropane	5.00	5.71			114		80-125		
1,2,4-Trimethylbenzene	5.00	5.19			104		80-120		
1,3,5-Trimethylbenzene	5.00	5.18			104		80-120		
Vinyl Chloride	5.00	4.08			82		62-128		
Xylene (Total)	15	15.71			105		80-120		
Batch number: I162942AA Sample number(s): 8645445-8645448									
Acrylonitrile	25	27.43	25	27.17	110	109	68-135	1	30
t-Amyl methyl ether	5.00	4.95	5.00	4.85	99	97	80-120	2	30
Benzene	5.00	4.94	5.00	4.84	99	97	80-120	2	30
Bromobenzene	5.00	4.93	5.00	4.70	99	94	80-120	5	30
Bromochloromethane	5.00	5.39	5.00	5.21	108	104	80-125	3	30
Bromodichloromethane	5.00	5.42	5.00	5.27	108	105	80-120	3	30
Bromoform	5.00	4.39	5.00	4.25	88	85	62-128	3	30
Bromomethane	5.00	5.07	5.00	4.94	101	99	62-131	3	30
t-Butyl Alcohol	50	55.52	50	47.29	111	95	64-146	16	30
n-Butylbenzene	5.00	4.87	5.00	4.58	97	92	80-120	6	30
sec-Butylbenzene	5.00	4.86	5.00	4.61	97	92	80-120	5	30
tert-Butylbenzene	5.00	4.75	5.00	4.50	95	90	80-120	6	30
Carbon Disulfide	5.00	4.29	5.00	4.15	86	83	65-120	3	30
Chlorobenzene	5.00	4.92	5.00	4.74	98	95	80-120	4	30
Chloroethane	5.00	4.65	5.00	4.48	93	90	63-125	4	30
Chloroform	5.00	5.39	5.00	5.32	108	106	80-120	1	30
Chloromethane	5.00	4.62	5.00	4.45	92	89	55-126	4	30
2-Chlorotoluene	5.00	4.87	5.00	4.70	97	94	80-120	4	30
4-Chlorotoluene	5.00	4.89	5.00	4.72	98	94	80-120	3	30
1,2-Dibromo-3-chloropropane	5.00	4.65	5.00	4.64	93	93	63-134	0	30
Dibromochloromethane	5.00	4.80	5.00	4.68	96	94	78-127	3	30
1,2-Dibromoethane	5.00	5.28	5.00	5.12	106	102	80-120	3	30
Dibromomethane	5.00	5.51	5.00	5.40	110	108	80-122	2	30
trans-1,4-Dichloro-2-butene	25	20.69	25	22.99	83	92	10-188	10	30
1,2-Dichlorobenzene	5.00	5.00	5.00	4.73	100	95	80-120	5	30
1,3-Dichlorobenzene	5.00	4.91	5.00	4.70	98	94	80-120	5	30
1,4-Dichlorobenzene	5.00	4.98	5.00	4.76	100	95	80-120	5	30
Dichlorodifluoromethane	5.00	5.30	5.00	5.01	106	100	35-142	6	30
1,1-Dichloroethane	5.00	5.04	5.00	4.94	101	99	75-120	2	30
1,2-Dichloroethane	5.00	6.04	5.00	6.06	121	121	72-127	0	30
1,1-Dichloroethene	5.00	4.90	5.00	4.68	98	94	76-120	5	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
cis-1,2-Dichloroethene	5.00	5.06	5.00	4.97	101	99	80-120	2	30
trans-1,2-Dichloroethene	5.00	5.07	5.00	5.02	101	100	80-120	1	30
1,2-Dichloropropane	5.00	4.93	5.00	4.80	99	96	80-120	3	30
1,3-Dichloropropane	5.00	4.90	5.00	4.75	98	95	80-120	3	30
2,2-Dichloropropane	5.00	5.24	5.00	5.04	105	101	73-121	4	30
1,1-Dichloropropene	5.00	4.96	5.00	4.75	99	95	77-120	4	30
cis-1,3-Dichloropropene	5.00	4.87	5.00	4.80	97	96	80-124	1	30
trans-1,3-Dichloropropene	5.00	4.88	5.00	4.76	98	95	77-121	3	30
Ethyl t-butyl ether	5.00	4.91	5.00	4.81	98	96	75-120	2	30
Ethylbenzene	5.00	4.93	5.00	4.73	99	95	80-120	4	30
Hexachlorobutadiene	5.00	4.95	5.00	4.63	99	93	69-120	7	30
di-Isopropyl Ether	5.00	4.62	5.00	4.56	92	91	72-120	1	30
Isopropylbenzene	5.00	5.04	5.00	4.78	101	96	80-120	5	30
p-Isopropyltoluene	5.00	4.78	5.00	4.54	96	91	80-120	5	30
Methyl Tertiary Butyl Ether	5.00	5.23	5.00	5.05	105	101	80-120	4	30
Methylene Chloride	5.00	4.99	5.00	4.75	100	95	80-120	5	30
Naphthalene	5.00	4.94	5.00	4.46	99	99	64-123	10	30
n-Propylbenzene	5.00	4.80	5.00	4.57	96	91	79-120	5	30
Styrene	5.00	4.96	5.00	4.80	99	96	80-120	3	30
1,1,1,2-Tetrachloroethane	5.00	5.06	5.00	4.85	101	97	80-120	4	30
1,1,2,2-Tetrachloroethane	5.00	4.82	5.00	4.49	96	90	75-123	7	30
Tetrachloroethene	5.00	4.94	5.00	4.82	99	96	80-120	2	30
Toluene	5.00	4.75	5.00	4.65	95	93	80-120	2	30
1,2,3-Trichlorobenzene	5.00	4.84	5.00	4.47	97	89	66-120	8	30
1,2,4-Trichlorobenzene	5.00	4.87	5.00	4.53	97	91	67-120	7	30
1,1,1-Trichloroethane	5.00	5.46	5.00	5.27	109	105	79-120	4	30
1,1,2-Trichloroethane	5.00	5.06	5.00	4.81	101	96	80-120	5	30
Trichloroethene	5.00	5.28	5.00	5.21	106	104	80-120	1	30
Trichlorofluoromethane	5.00	5.77	5.00	5.41	115	108	71-131	7	30
1,2,3-Trichloropropane	5.00	5.70	5.00	5.21	114	104	80-125	9	30
1,2,4-Trimethylbenzene	5.00	4.90	5.00	4.66	98	93	80-120	5	30
1,3,5-Trimethylbenzene	5.00	4.85	5.00	4.63	97	93	80-120	5	30
Vinyl Chloride	5.00	4.96	5.00	4.62	99	92	62-128	7	30
Xylene (Total)	15	14.62	15	14.09	97	94	80-120	4	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16292A20A	Sample number(s): 8645445-8645453								
TPH-GRO water C6-C10	1100	1000.24			91		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 162930033A	Sample number(s): 8645445-8645453								
DRO C10-C28	2680	2148.56			80		69-115		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: G162991AA	Sample number(s): 8645449-8645451		UNSPK: P657080							
Acrylonitrile	N.D.	25	26.81	25	28.04	107	112	68-135	5	30
t-Amyl methyl ether	N.D.	5.00	5.17	5.00	5.44	103	109	80-120	5	30
Benzene	N.D.	5.00	5.75	5.00	5.97	115	119	80-120	4	30
Bromobenzene	N.D.	5.00	5.79	5.00	6.08	116	122*	80-120	5	30
Bromochloromethane	N.D.	5.00	6.00	5.00	6.01	120	120	80-125	0	30
Bromodichloromethane	N.D.	5.00	5.25	5.00	5.51	105	110	80-120	5	30
Bromoform	N.D.	5.00	5.51	5.00	5.82	110	116	62-128	5	30
Bromomethane	N.D.	5.00	5.04	5.00	5.08	101	102	62-131	1	30
t-Butyl Alcohol	N.D.	50	56.95	50	61.98	114	124	64-146	8	30
n-Butylbenzene	N.D.	5.00	5.83	5.00	6.05	117	121*	80-120	4	30
sec-Butylbenzene	N.D.	5.00	5.97	5.00	6.18	119	124*	80-120	3	30
tert-Butylbenzene	N.D.	5.00	5.92	5.00	6.21	118	124*	80-120	5	30
Carbon Disulfide	N.D.	5.00	5.77	5.00	6.00	115	120	65-120	4	30
Chlorobenzene	N.D.	5.00	5.88	5.00	6.16	118	123*	80-120	5	30
Chloroethane	N.D.	5.00	4.92	5.00	4.97	98	99	63-125	1	30
Chloroform	3.64	5.00	9.30	5.00	9.50	113	117	80-120	2	30
Chloromethane	N.D.	5.00	4.28	5.00	4.26	86	85	55-126	0	30
2-Chlorotoluene	N.D.	5.00	5.90	5.00	6.13	118	123*	80-120	4	30
4-Chlorotoluene	N.D.	5.00	5.83	5.00	6.09	117	122*	80-120	4	30
1,2-Dibromo-3-chloropropane	N.D.	5.00	5.56	5.00	5.88	111	118	63-134	6	30
Dibromochloromethane	N.D.	5.00	5.59	5.00	5.89	112	118	78-127	5	30
1,2-Dibromoethane	N.D.	5.00	5.92	5.00	6.27	118	125*	80-120	6	30
Dibromomethane	N.D.	5.00	5.87	5.00	6.02	117	120	80-122	3	30
trans-1,4-Dichloro-2-butene	N.D.	25	40.35	25	42.33	161	169	10-188	5	30
1,2-Dichlorobenzene	N.D.	5.00	5.82	5.00	6.06	116	121*	80-120	4	30
1,3-Dichlorobenzene	N.D.	5.00	5.71	5.00	6.04	114	121*	80-120	6	30
1,4-Dichlorobenzene	N.D.	5.00	5.78	5.00	6.06	116	121*	80-120	5	30
Dichlorodifluoromethane	N.D.	5.00	3.14	5.00	3.12	63	62	35-142	1	30
1,1-Dichloroethane	N.D.	5.00	5.39	5.00	5.59	108	112	75-120	4	30
1,2-Dichloroethane	N.D.	5.00	5.55	5.00	5.68	111	114	72-127	2	30
1,1-Dichloroethene	N.D.	5.00	5.42	5.00	5.57	108	111	76-120	3	30
cis-1,2-Dichloroethene	N.D.	5.00	5.66	5.00	5.86	113	117	80-120	3	30
trans-1,2-Dichloroethene	N.D.	5.00	5.83	5.00	6.11	117	122*	80-120	5	30
1,2-Dichloropropane	N.D.	5.00	5.72	5.00	5.93	114	119	80-120	3	30
1,3-Dichloropropane	N.D.	5.00	5.68	5.00	5.88	114	118	80-120	3	30
2,2-Dichloropropane	N.D.	5.00	5.34	5.00	5.49	107	110	73-121	3	30
1,1-Dichloropropene	N.D.	5.00	5.51	5.00	5.70	110	114	77-120	3	30
cis-1,3-Dichloropropene	N.D.	5.00	5.66	5.00	5.88	113	118	80-124	4	30
trans-1,3-Dichloropropene	N.D.	5.00	5.58	5.00	5.81	112	116	77-121	4	30
Ethyl t-butyl ether	N.D.	5.00	4.88	5.00	5.22	98	104	75-120	7	30
Ethylbenzene	N.D.	5.00	5.62	5.00	5.87	112	117	80-120	4	30
Hexachlorobutadiene	N.D.	5.00	5.38	5.00	5.75	108	115	69-120	7	30
di-Isopropyl Ether	N.D.	5.00	4.94	5.00	5.12	99	102	72-120	4	30
Isopropylbenzene	N.D.	5.00	5.72	5.00	5.97	114	119	80-120	4	30
p-Isopropyltoluene	N.D.	5.00	5.78	5.00	6.03	116	121*	80-120	4	30

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	N.D.	5.00	5.21	5.00	5.51	104	110	80-120	6	30
Methylene Chloride	N.D.	5.00	5.54	5.00	5.66	111	113	80-120	2	30
Naphthalene	N.D.	5.00	5.46	5.00	5.77	109	115	64-123	6	30
n-Propylbenzene	N.D.	5.00	5.86	5.00	6.09	117	122*	79-120	4	30
Styrene	N.D.	5.00	5.66	5.00	5.94	113	119	80-120	5	30
1,1,1,2-Tetrachloroethane	N.D.	5.00	5.56	5.00	5.70	111	114	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	5.00	5.48	5.00	5.76	110	115	75-123	5	30
Tetrachloroethene	N.D.	5.00	5.96	5.00	6.11	119	122*	80-120	3	30
Toluene	N.D.	5.00	5.77	5.00	5.97	115	119	80-120	3	30
1,2,3-Trichlorobenzene	N.D.	5.00	5.36	5.00	5.65	107	113	66-120	5	30
1,2,4-Trichlorobenzene	N.D.	5.00	5.40	5.00	5.72	108	114	67-120	6	30
1,1,1-Trichloroethane	N.D.	5.00	5.56	5.00	5.81	111	116	79-120	4	30
1,1,2-Trichloroethane	N.D.	5.00	5.64	5.00	5.83	113	117	80-120	3	30
Trichloroethene	N.D.	5.00	5.75	5.00	5.95	115	119	80-120	3	30
Trichlorofluoromethane	N.D.	5.00	5.48	5.00	5.66	110	113	71-131	3	30
1,2,3-Trichloropropane	N.D.	5.00	5.70	5.00	6.06	114	121	80-125	6	30
1,2,4-Trimethylbenzene	N.D.	5.00	5.61	5.00	5.85	112	117	80-120	4	30
1,3,5-Trimethylbenzene	N.D.	5.00	5.65	5.00	5.91	113	118	80-120	5	30
Vinyl Chloride	N.D.	5.00	4.75	5.00	4.85	95	97	62-128	2	30
Xylene (Total)	N.D.	15	17.26	15	18.04	115	120	80-120	4	30
Batch number: G163001AA	Sample number(s): 8645452-8645453 UNSPK: P654337									
Acrylonitrile	N.D.	50000	56134.71	50000	55559.98	112	111	68-135	1	30
t-Amyl methyl ether	N.D.	10000	9750.97	10000	9905.01	98	99	80-120	2	30
Benzene	464.2	10000	10844.74	10000	10887.98	104	104	80-120	0	30
Bromobenzene	N.D.	10000	10786.79	10000	11024.41	108	110	80-120	2	30
Bromochloromethane	N.D.	10000	11073.31	10000	11069.29	111	111	80-125	0	30
Bromodichloromethane	N.D.	10000	9730.65	10000	9921.67	97	99	80-120	2	30
Bromoform	N.D.	10000	10996.06	10000	11104.42	110	111	62-128	1	30
Bromomethane	N.D.	10000	8846.43	10000	8836.54	88	88	62-131	0	30
t-Butyl Alcohol	N.D.	100000	126765.41	100000	132496.77	127	132	64-146	4	30
n-Butylbenzene	N.D.	10000	10209.79	10000	10480.13	102	105	80-120	3	30
sec-Butylbenzene	N.D.	10000	10463.78	10000	10825.93	105	108	80-120	3	30
tert-Butylbenzene	N.D.	10000	10523.25	10000	10827.29	105	108	80-120	3	30
Carbon Disulfide	N.D.	10000	9744.65	10000	9689.72	97	97	65-120	1	30
Chlorobenzene	3189.64	10000	14106.52	10000	14389.34	109	112	80-120	2	30
Chloroethane	N.D.	10000	8408.28	10000	8434.78	84	84	63-125	0	30
Chloroform	43669.13	10000	51784.61	10000	52548.95	81 (2)	89 (2)	80-120	1	30
Chloromethane	N.D.	10000	7199.99	10000	7193.41	72	72	55-126	0	30
2-Chlorotoluene	N.D.	10000	10728.26	10000	11075.52	107	111	80-120	3	30
4-Chlorotoluene	N.D.	10000	10715.99	10000	11005.18	107	110	80-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	10000	11247.7	10000	11974.8	112	120	63-134	6	30
Dibromochloromethane	N.D.	10000	10776.29	10000	11055.56	108	111	78-127	3	30
1,2-Dibromoethane	N.D.	10000	11646.36	10000	11724.03	116	117	80-120	1	30
Dibromomethane	N.D.	10000	11232.26	10000	11215.36	112	112	80-122	0	30

*- Outside of specification

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

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

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
trans-1,4-Dichloro-2-butene	N.D.	50000	79381.28	50000	81907.83	159	164	10-188	3	30
1,2-Dichlorobenzene	314.68	10000	11158.12	10000	11405.58	108	111	80-120	2	30
1,3-Dichlorobenzene	345.06	10000	10917.1	10000	11337.28	106	110	80-120	4	30
1,4-Dichlorobenzene	538.25	10000	11204.83	10000	11544.42	107	110	80-120	3	30
Dichlorodifluoromethane	N.D.	10000	4767.41	10000	4801.87	48	48	35-142	1	30
1,1-Dichloroethane	228.49	10000	9850.21	10000	10017.8	96	98	75-120	2	30
1,2-Dichloroethane	N.D.	10000	10391.26	10000	10461.04	104	105	72-127	1	30
1,1-Dichloroethene	N.D.	10000	9406.6	10000	9424.53	94	94	76-120	0	30
cis-1,2-Dichloroethene	376.02	10000	10575.41	10000	10830.12	102	105	80-120	2	30
trans-1,2-Dichloroethene	N.D.	10000	10383.81	10000	10516.2	104	105	80-120	1	30
1,2-Dichloropropane	2843.72	10000	13257.61	10000	13547.6	104	107	80-120	2	30
1,3-Dichloropropane	831.28	10000	11660.86	10000	11883.96	108	111	80-120	2	30
2,2-Dichloropropane	N.D.	10000	9223.78	10000	9332.38	92	93	73-121	1	30
1,1-Dichloropropene	299.34	10000	9713.66	10000	9922.37	94	96	77-120	2	30
cis-1,3-Dichloropropene	N.D.	10000	10464.32	10000	10797.52	105	108	80-124	3	30
trans-1,3-Dichloropropene	N.D.	10000	10526.71	10000	10895.75	105	109	77-121	3	30
Ethyl t-butyl ether	N.D.	10000	9179.55	10000	9359.1	92	94	75-120	2	30
Ethylbenzene	N.D.	10000	10178.91	10000	10428.41	102	104	80-120	2	30
Hexachlorobutadiene	N.D.	10000	9257.77	10000	9787.28	93	98	69-120	6	30
di-Isopropyl Ether	N.D.	10000	9172.84	10000	9349.54	92	93	72-120	2	30
Isopropylbenzene	N.D.	10000	10271.2	10000	10465.25	103	105	80-120	2	30
p-Isopropyltoluene	N.D.	10000	10314.58	10000	10556.02	103	106	80-120	2	30
Methyl Tertiary Butyl Ether	N.D.	10000	10096.07	10000	10079.47	101	101	80-120	0	30
Methylene Chloride	1404.39	10000	11243	10000	11415.22	98	100	80-120	2	30
Naphthalene	N.D.	10000	10695.54	10000	10863.89	107	109	64-123	2	30
n-Propylbenzene	N.D.	10000	10402.71	10000	10746.71	104	107	79-120	3	30
Styrene	N.D.	10000	10598.44	10000	10813.32	106	108	80-120	2	30
1,1,1,2-Tetrachloroethane	681.91	10000	10977.76	10000	11290.43	103	106	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	10000	10629.07	10000	10700.12	106	107	75-123	1	30
Tetrachloroethene	39356.52	10000	48787.93	10000	49960.23	94	106	80-120	2	30
Toluene	N.D.	10000	10398.28	10000	10724.39	104	107	80-120	3	30
1,2,3-Trichlorobenzene	N.D.	10000	10207.24	10000	10624.32	102	106	66-120	4	30
1,2,4-Trichlorobenzene	N.D.	10000	10246.86	10000	10582.07	102	106	67-120	3	30
1,1,1-Trichloroethane	N.D.	10000	9713.53	10000	9877.17	97	99	79-120	2	30
1,1,2-Trichloroethane	315.81	10000	11128.79	10000	11278.77	108	110	80-120	1	30
Trichloroethene	1538.7	10000	11741.6	10000	12055	102	105	80-120	3	30
Trichlorofluoromethane	N.D.	10000	9259.01	10000	9257.22	93	93	71-131	0	30
1,2,3-Trichloropropane	61371.88	10000	70918.07	10000	70978.08	95 (2)	96 (2)	80-125	0	30
1,2,4-Trimethylbenzene	N.D.	10000	10229.24	10000	10574.29	102	106	80-120	3	30
1,3,5-Trimethylbenzene	N.D.	10000	10201.52	10000	10548.58	102	105	80-120	3	30
Vinyl Chloride	N.D.	10000	8113.16	10000	8166.16	81	82	62-128	1	30
Xylene (Total)	N.D.	30000	31506.36	30000	32253.2	105	108	80-120	2	30

Batch number: 16292A20A
TPH-GRO water C6-C10

Sample number(s): 8645445-8645453 UNSPK: P640144
N.D. 1100 1208.17 1100 1153.26 110 105 80-120 5 30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 162930033A										
DRO C10-C28	N.D.	2730	1527.28	2770	1984.58	56*	72	69-115	26*	20

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: G162991AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8645449	100	105	99	95
8645450	101	105	98	93
8645451	100	106	99	93
Blank	100	105	99	95
LCS	101	105	99	97
MS	101	104	100	94
MSD	101	105	99	96
Limits:	77-114	74-113	77-110	78-110

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: G163001AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8645452	100	106	99	95
8645453	101	105	100	94
Blank	100	105	99	94
LCS	100	104	98	95
MS	101	107	100	95
MSD	102	102	100	96
Limits:	77-114	74-113	77-110	78-110

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: I162942AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8645445	108	104	95	104
8645446	108	102	95	103
8645447	108	103	96	102
8645448	108	105	95	103
Blank	105	101	96	101

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/07/2016 11:35

Group Number: 1721422

Surrogate Quality Control (continued)

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

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	108	100	96	102
LCSD	108	102	96	102
Limits:	77-114	74-113	77-110	78-110

Analysis Name: TPH-GRO water C6-C10
Batch number: 16292A20A

	Trifluorotoluene-F
8645445	88
8645446	87
8645447	90
8645448	87
8645449	88
8645450	88
8645451	90
8645452	90
8645453	90
Blank	88
LCS	96
MS	100
MSD	98
Limits:	63-135

Analysis Name: TPH-DRO 8015B
Batch number: 162930033A

	Orthoterphenyl
8645445	83
8645446	83
8645447	72
8645448	83
8645449	86
8645450	79
8645451	90
8645452	83
8645453	85
Blank	88
LCS	92
MS	76
MSD	81
Limits:	42-160

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 8390 Group # 1721422 Sample # 8645445-53

Client: Groundwater & Environmental Services, Inc. (GES)				Matrix			Analyses Requested										For Lab Use Only					
Project Name/#: Carroll Madonna		Site ID #: 0402995		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Codes										SF #: _____					
Project Manager: Peter Reichardt		P.O. #: 0402995-06-206		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											SCR #: _____					
Sampler: <u>Jeff Plummer</u>		PWSID #:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other					
Phone #: 800-220-3606 ext. 3726		Quote #:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD																						
Sample Identification	Collection		Grab	Composite	Soil	Water	Other:	Total # of Containers	Full Suite VOCs plus Organogenics including Naphthalene (62609)	TPH-GRO (8015)	TPH-DRO (8015)											Remarks
	Date	Time																				
<u>MW-1</u>	<u>10-13-16</u>	<u>1020</u>	<u>X</u>			<u>X</u>		<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>											<u>EDD file name:</u>
<u>MW-2</u>		<u>1315</u>																				<u>Carroll Madonna-</u>
<u>MW-3</u>		<u>1340</u>																				<u>lab report</u>
<u>MW-4</u>		<u>1055</u>																				<u>#.21993.EQEDD.zip</u>
<u>MW-4D</u>		<u>1110</u>																				
<u>MW-5</u>		<u>1140</u>																				
<u>MW-5D</u>		<u>1155</u>																				
<u>MW-6</u>		<u>1230</u>																				
<u>MW-6D</u>	<u>10-13-16</u>	<u>1245</u>	<u>X</u>			<u>X</u>		<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>											
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Relinquished by: <u>Jeff Plummer</u>			Date	Time	Received by: <u>Denise Woodring</u>			Date	Time									
(Rush TAT is subject to laboratory approval and surcharges.)							<u>10-13-16</u>	<u>1545</u>				<u>10-13-16</u>	<u>1545</u>									
Date results are needed:				Relinquished by: <u>Denise Woodring</u>			Date	Time	Received by: <u>Jeff Plummer</u>			Date	Time									
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>							<u>10-14-16</u>	<u>11:36</u>				<u>10-14-16</u>	<u>11:36</u>									
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com				Relinquished by: <u>Jeff Plummer</u>			Date	Time	Received by:			Date	Time									
Phone: 800-220-3606 x3717							<u>10-14-16</u>	<u>1550</u>														
Data Package Options (please check if required)				Relinquished by:			Date	Time	Received by:			Date	Time									
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>																			
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>																			
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>																			
NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by Commercial Carrier:						Received by: <u>Cathy Ruff</u>			Date	Time								
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: EQEDD							UPS _____ FedEx _____ Other _____			Temperature upon receipt <u>0.5</u> °C												

Client: GES

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 10/14/2016 16:30
 Number of Packages: 1 Number of Projects: 1
 State/Province of Origin: MD

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cathy Murphy (10960) at 22:02 on 10/14/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp)* *All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT121	0.5	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: October 26, 2016

Project: Carroll Madonna

Submittal Date: 10/14/2016
Group Number: 1722241
PO Number: 0402995-06-209
Release Number: MADONNA
State of Sample Origin: MD

Client Sample Description

3922 GREEN PEAK-INF Grab Potable Water
3921 GREEN PEAK-EFF Grab Potable Water
3921 GREEN PEAK-MID Grab Potable Water
3921 GREEN PEAK-INF Grab Potable Water

Lancaster Labs

(LL) #

8648866
8648867
8648868
8648869

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To GES, Inc.-MD
Electronic Copy To GES Inc.

Attn: Data Distribution
Attn: Pete Reichardt

Respectfully Submitted,



Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: 3922 GREEN PEAK-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8648866
LL Group # 1722241
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 09:40 by JP

GES, Inc.

Submitted: 10/14/2016 16:30

Suite A

Reported: 10/26/2016 15:25

1350 Blair Dr
Odenton MD 21113

22GPI

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	7.6	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S162992AA	10/25/2016 21:24	Joshua S Hess	1

Sample Description: 3921 GREEN PEAK-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8648867
LL Group # 1722241
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:00 by JP

GES, Inc.

Submitted: 10/14/2016 16:30

Suite A

Reported: 10/26/2016 15:25

1350 Blair Dr

Odenton MD 21113

21GPE

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S162992AA	10/25/2016 21:51	Joshua S Hess	1

Sample Description: 3921 GREEN PEAK-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8648868
LL Group # 1722241
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:05 by JP

GES, Inc.

Submitted: 10/14/2016 16:30

Suite A

Reported: 10/26/2016 15:25

1350 Blair Dr

Odenton MD 21113

21GPM

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S162992AA	10/25/2016 22:18	Joshua S Hess	1

Sample Description: 3921 GREEN PEAK-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8648869
LL Group # 1722241
Account # 08390

Project Name: Carroll Madonna

Collected: 10/13/2016 10:10 by JP

GES, Inc.

Submitted: 10/14/2016 16:30

Suite A

Reported: 10/26/2016 15:25

1350 Blair Dr

Odenton MD 21113

21GPI

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		EPA 524.2	ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	26	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.1 J	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S162992AA	10/25/2016 22:45	Joshua S Hess	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/26/2016 15:25

Group Number: 1722241

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: S162992AA	Sample number(s): 8648866-8648869	
t-Amyl Methyl Ether	N.D.	0.1
Benzene	N.D.	0.1
t-Butyl Alcohol	N.D.	2.5
Carbon Tetrachloride	N.D.	0.1
Chlorobenzene	N.D.	0.1
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
Ethyl t-Butyl Ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.3
Naphthalene	N.D.	0.2
Styrene	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.2
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: S162992AA	Sample number(s): 8648866-8648869								
t-Amyl Methyl Ether	5.00	5.04			101		70-130		
Benzene	5.00	4.84			97		70-130		
t-Butyl Alcohol	50	60.22			120		70-130		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/26/2016 15:25

Group Number: 1722241

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	5.00	5.07			101		70-130		
Chlorobenzene	5.00	5.53			111		70-130		
1,2-Dichlorobenzene	5.00	5.57			111		70-130		
1,3-Dichlorobenzene	5.00	5.56			111		70-130		
1,2-Dichloroethane	5.00	5.37			107		70-130		
1,1-Dichloroethene	5.00	4.45			89		70-130		
cis-1,2-Dichloroethene	5.00	4.96			99		70-130		
trans-1,2-Dichloroethene	5.00	4.79			96		70-130		
1,2-Dichloropropane	5.00	5.45			109		70-130		
Ethyl t-Butyl Ether	5.00	5.07			101		70-130		
Ethylbenzene	5.00	5.39			108		70-130		
di-Isopropyl Ether	5.00	5.09			102		70-130		
Methyl Tertiary Butyl Ether	5.00	4.95			99		70-130		
Methylene Chloride	5.00	4.88			98		70-130		
Naphthalene	5.00	5.37			107		70-130		
Styrene	5.00	5.78			116		70-130		
Tetrachloroethene	5.00	5.27			105		70-130		
Toluene	5.00	5.39			108		70-130		
1,2,4-Trichlorobenzene	5.00	5.29			106		70-130		
1,1,1-Trichloroethane	5.00	4.95			99		70-130		
1,1,2-Trichloroethane	5.00	5.66			113		70-130		
Trichloroethene	5.00	5.07			101		70-130		
Vinyl Chloride	2.00	2.04			102		70-130		
Xylene (Total)	15	16.65			111		70-130		

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S162992AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
8648866	94	96
8648867	95	97
8648868	89	92
8648869	91	94
Blank	95	94
LCS	104	113
Limits:	80-120	80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Client: GES

(72224)

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 10/14/2016 16:30
 Number of Packages: 1 Number of Projects: 1
 State/Province of Origin: MD

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cathy Murphy (10960) at 22:02 on 10/14/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT121	0.5	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: October 31, 2016

Project: Carroll Madonna

Submittal Date: 10/19/2016
Group Number: 1722869
PO Number: 0402995-06-209
Release Number: ORG # 0404
State of Sample Origin: MD

Client Sample Description

3914 MADONNA-EFF Grab Potable Water
3914 MADONNA-MID Grab Potable Water
3914 MADONNA-INF Grab Potable Water

Lancaster Labs

(LL) #

8652021
8652022
8652023

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To GES, Inc.-MD
Electronic Copy To GES Inc.

Attn: Data Distribution
Attn: Pete Reichardt

Respectfully Submitted,



Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: 3914 MADONNA-EFF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8652021
LL Group # 1722869
Account # 08390

Project Name: Carroll Madonna

Collected: 10/18/2016 08:50 by JP

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/19/2016 17:55

Reported: 10/31/2016 14:37

CMAEF

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S163041AA	10/30/2016 15:53	Jason M Long	1

Sample Description: 3914 MADONNA-MID Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8652022
LL Group # 1722869
Account # 08390

Project Name: Carroll Madonna

Collected: 10/18/2016 08:55 by JP

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/19/2016 17:55

Reported: 10/31/2016 14:37

CMAMI

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S163041AA	10/30/2016 16:20	Jason M Long	1

Sample Description: 3914 MADONNA-INF Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 8652023
LL Group # 1722869
Account # 08390

Project Name: Carroll Madonna

Collected: 10/18/2016 09:00 by JP

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Submitted: 10/19/2016 17:55

Reported: 10/31/2016 14:37

CMAIN

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles EPA 524.2			ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	12	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCS- 25ml Water by 524.2	EPA 524.2	1	S163041AA	10/30/2016 16:47	Jason M Long	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/31/2016 14:37

Group Number: 1722869

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: S163041AA	Sample number(s): 8652021-8652023	
t-Amyl Methyl Ether	N.D.	0.1
Benzene	N.D.	0.1
t-Butyl Alcohol	N.D.	2.5
Carbon Tetrachloride	N.D.	0.1
Chlorobenzene	N.D.	0.1
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
Ethyl t-Butyl Ether	N.D.	0.1
Ethylbenzene	N.D.	0.1
di-Isopropyl Ether	N.D.	0.1
Methyl Tertiary Butyl Ether	N.D.	0.1
Methylene Chloride	N.D.	0.3
Naphthalene	N.D.	0.2
Styrene	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.2
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Vinyl Chloride	N.D.	0.1
Xylene (Total)	N.D.	0.1

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: S163041AA	Sample number(s): 8652021-8652023								
t-Amyl Methyl Ether	5.00	5.27			105		70-130		
Benzene	5.00	4.81			96		70-130		
t-Butyl Alcohol	50	56.17			112		70-130		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/31/2016 14:37

Group Number: 1722869

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	5.00	5.50			110		70-130		
Chlorobenzene	5.00	5.59			112		70-130		
1,2-Dichlorobenzene	5.00	4.99			100		70-130		
1,3-Dichlorobenzene	5.00	5.14			103		70-130		
1,2-Dichloroethane	5.00	5.91			118		70-130		
1,1-Dichloroethene	5.00	4.06			81		70-130		
cis-1,2-Dichloroethene	5.00	4.95			99		70-130		
trans-1,2-Dichloroethene	5.00	4.37			87		70-130		
1,2-Dichloropropane	5.00	5.82			116		70-130		
Ethyl t-Butyl Ether	5.00	5.49			110		70-130		
Ethylbenzene	5.00	5.71			114		70-130		
di-Isopropyl Ether	5.00	4.57			91		70-130		
Methyl Tertiary Butyl Ether	5.00	5.11			102		70-130		
Methylene Chloride	5.00	4.34			87		70-130		
Naphthalene	5.00	4.84			97		70-130		
Styrene	5.00	5.66			113		70-130		
Tetrachloroethene	5.00	5.08			102		70-130		
Toluene	5.00	5.25			105		70-130		
1,2,4-Trichlorobenzene	5.00	4.56			91		70-130		
1,1,1-Trichloroethane	5.00	5.40			108		70-130		
1,1,2-Trichloroethane	5.00	5.30			106		70-130		
Trichloroethene	5.00	5.18			104		70-130		
Vinyl Chloride	2.00	1.80			90		70-130		
Xylene (Total)	15	16.97			113		70-130		

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S163041AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
8652021	91	91
8652022	92	95
8652023	91	92
Blank	93	93
LCS	97	97
Limits:	80-120	80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Client: GES

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>10/19/2016 17:55</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>2</u>
State/Province of Origin:	<u>MD</u>		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Karen Diem (3060) at 18:42 on 10/19/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT131	1.6	DT	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

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