APPENDIX A

Laboratory Reports and Chain of Custody Documentation

Europhins Lancaster Laboratories
ID Numbers:
1688263
1696840
1721422
1722241
1722869

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

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	Lancaster Labs (LL) #
3922 GREENPEAK-INF Grab Potable Water	8498035
3921 GREENPEAK-EFF Grab Potable Water	8498036
3921 GREENPEAK-MID Grab Potable Water	8498037
3921 GREENPEAK-INF Grab Potable Water	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	Attn: Data Distribution
Electronic Copy To	GES Inc.	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

Submitted: 07/28/2016 16:25
Reported: 08/03/2016 14:28

GES, Inc.
Suite A
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

Submitted: 07/28/2016 16:25
Reported: 08/03/2016 14:28

GES, Inc.
Suite A
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

Submitted: 07/28/2016 16:25
Reported: 08/03/2016 14:28

GES, Inc.
Suite A
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

Submitted: 07/28/2016 16:25
Reported: 08/03/2016 14:28

GES, Inc.
Suite A
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. Group Number: 1688263
Reported: 08/03/2016 14:28

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 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
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. Group Number: 1688263
Reported: 08/03/2016 14:28

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.

3WW 7/28/16

Environmental Analysis Request/Chain of Custody

eurofins | **Lancaster Laboratories Environmental**

Acct. # 8390 Group # ~~1688~~ 1688263 Sample # 8498035-38

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402995
Project Manager: Peter Reichardt	P.O. #: 0402995-06-209
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606 ext. 3726	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

Matrix: Sediment ☐ / Soil ☐; Water: Ground ☒ / Potable ☐; Surface ☐ / NPDES ☐; Other:

Analyses Requested — Preservation Codes: H — Full Suite VOCs plus Oxygenates Including Naphthalene (524.2)

Sample Identification	Date	Time	Grab	Composite	Water	Total # of Containers	Full Suite VOCs plus Oxygenates Including Naphthalene (524.2)
~~3922 GREENPEAK-INF~~	~~7/28/16~~	~~0910~~	~~X~~		~~X~~	~~3~~	~~X~~
3922 GREENPEAK-INF	7/28/16	0910	X		X	3	X
3921 GREENPEAK-EFF	↓	1000	X		X	3	X
3921 GREENPEAK-MID	↓	1005	X		X	3	X
3921 GREENPEAK-INF	↓	1010	X		X	3	X

For Lab Use Only
SF #: ______
SCR #: ______

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks
EDD file name: Carroll Madonna-lab report #.21993.EQEDD.zip

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com
Phone: 800-220-3606 x3717

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7/28/16	1300	Denise Wooding	7-28-16	1:15
Denise Wooding	7-28-16	1:15	Bill DeEng	7-28-16	13:15
Bill DeEng	7-28-16	16:25			
			[signature]	7/28/16	1625

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______

Temperature upon receipt 3.5 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 7045 0614

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 155664

Group Number(s): 1688263

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.*

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

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
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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 ≥ 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.

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Analysis Report

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	Lancaster Labs (LL) #
3914 Madonna-Eff Grab Potable Water	8535812
3914 Madonna-Mid Grab Potable Water	8535813
3914 Madonna-Inf Grab Potable Water	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	Attn: Data Distribution
Electronic Copy To	GES Inc.	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

Submitted: 08/18/2016 13:54
Reported: 08/26/2016 12:52

GES, Inc.
Suite A
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

Submitted: 08/18/2016 13:54
Reported: 08/26/2016 12:52

GES, Inc.
Suite A
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

Submitted: 08/18/2016 13:54
Reported: 08/26/2016 12:52

GES, Inc.
Suite A
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. Group Number: 1696840
Reported: 08/26/2016 12:52

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 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
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. Group Number: 1696840
Reported: 08/26/2016 12:52

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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1696840 Sample # 8535812-14

Client: Groundwater & Environmental Services, Inc. (GES)

Project Name/#: Carroll Madonna | Site ID #: 0402995

Project Manager: Peter Reichardt | P.O. #: 0402995-06-209

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 ext. 3726 | Quote #:

State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES	Surface Water	Other:	Total # of Containers	Analyses Requested: Full Scan VOCs plus Oxygenates including Naphthalene (524.2)	TARGET VOCs + OXY's + Naphthalene EPA 524.2	Preservation Codes: H	Remarks
3914 Madonna - Eff	8-16-16	0940	X					X				3	X	X		EDD file name:
3914 Madonna - Mid	8-16-16	0945	X					X				3	X	X		Carroll Madonna-
3914 Madonna - Inf	8-16-16	0950	X					X				3	X	X		lab report
																#.21993.EQEDD.zip

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	8-17-16	0800	Denise Woodring	8-17-16	0800
Denise Woodring	8-18-16	1126		8-18-16	11:26
	8-18-16	1359			
			Received by:	8/18/16	1354

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 159105

Group Number(s): 1696840

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 ≥ 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.

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

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

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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 ≥ 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.

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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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