



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

08 August 2017

Work Order: 1707266

Price: \$1,560.00

Dan Hamel

MDEQ-RRD-JACKSON

301 E. Louis Glick Highway

Jackson, MI 49201-1556

RE: GELMAN SCIENCES, INC

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

Kirby Shane
Laboratory Director



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MDEQ-RRD-JACKSON 301 E. Louis Glick Highway Jackson MI, 49201-1556	Project: GELMAN SCIENCES, INC Site Code: 81000018 Project Manager: Dan Hamel	Reported: 08/08/2017
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Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
HC/HR	1707266-01	Water	07/24/2017	07/25/2017	
MW-112d	1707266-02	Water	07/24/2017	07/25/2017	
MW-112s	1707266-03	Water	07/24/2017	07/25/2017	
MW-112i	1707266-04	Water	07/24/2017	07/25/2017	
MW-98s	1707266-05	Water	07/24/2017	07/25/2017	
MW-103d	1707266-06	Water	07/24/2017	07/25/2017	
DUP-01	1707266-07	Water	07/24/2017	07/25/2017	
MW-103S	1707266-08	Water	07/24/2017	07/25/2017	
MW-82S	1707266-09	Water	07/24/2017	07/25/2017	
Allen Creek Glendale	1707266-10	Water	07/25/2017	07/25/2017	
Sister Lake 2	1707266-11	Water	07/25/2017	07/25/2017	
Sister Lake 1	1707266-12	Water	07/25/2017	07/25/2017	

Notes and Definitions

- Y28 1,4-dioxane analysis is performed using selective ion monitoring (SIM). Results reported below 5 ug/L (aqueous) or 1000 ug/Kg (solids) are estimated.
- ND Indicates compound analyzed for but not detected
- RL Reporting Limit
- NA Not Applicable



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TEL: (517) 335-9800
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Client ID: HC/HR

Lab ID: 1707266-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									See note Y28
123-91-1	1,4-dioxane	ND	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: MW-112d

Lab ID: 1707266-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									See note Y28
123-91-1	1,4-dioxane	ND	1.0	ug/L	1	07/28/17	B7G2901	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: MW-112s

Lab ID: 1707266-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
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Organics-Dioxane

See note Y28

	column headers for data123-91-1	ND	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	
	1,4-dioxane								



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Client ID: MW-112i

Lab ID: 1707266-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									
123-91-1	1,4-dioxane	10	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: MW-98s

Lab ID: 1707266-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									
123-91-1	1,4-dioxane	1.7	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	See note Y28



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TEL: (517) 335-9800
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Client ID: MW-103d

Lab ID: 1707266-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
123-91-1	1,4-dioxane	9.2	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: DUP-01

Lab ID: 1707266-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									
123-91-1	1,4-dioxane	58	5.0	ug/L	5	07/28/17	B7G2901	8260 Modified	



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TEL: (517) 335-9800
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Client ID: MW-103S

Lab ID: 1707266-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									
123-91-1	1,4-dioxane	61	5.0	ug/L	5	07/27/17	B7G2830	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: MW-82S

Lab ID: 1707266-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									
123-91-1	1,4-dioxane	350	20	ug/L	20	07/28/17	B7G2901	8260 Modified	



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TEL: (517) 335-9800
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Client ID: Allen Creek Glendale

Lab ID: 1707266-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									See note Y28
123-91-1	1,4-dioxane	ND	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: Sister Lake 2

Lab ID: 1707266-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									See note Y28
123-91-1	1,4-dioxane	ND	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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TEL: (517) 335-9800
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Client ID: Sister Lake 1

Lab ID: 1707266-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dioxane									See note Y28
123-91-1	1,4-dioxane	ND	1.0	ug/L	1	07/27/17	B7G2830	8260 Modified	



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Organics-Dioxane - Quality Control

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Analyzed	Qualifier
Batch B7G2830 - Method: 5030											Prepared: 07/27/2017
Blank (B7G2830-BLK1)											
1,4-dioxane	ND	1.0	ug/L							07/27/2017	
LCS (B7G2830-BS1)											
1,4-dioxane	10.8	1.0	ug/L	10.00		108	70-130			07/27/2017	
Matrix Spike (B7G2830-MS1)											Source: 1707266-03
1,4-dioxane	9.78	1.0	ug/L	10.00	ND	97.8	70-130			07/27/2017	
Matrix Spike Dup (B7G2830-MSD1)											Source: 1707266-03
1,4-dioxane	9.94	1.0	ug/L	10.00	ND	99.4	70-130	1.62	30	07/27/2017	

Batch B7G2901 - Method: 5030											Prepared: 07/28/2017
Blank (B7G2901-BLK1)											
1,4-dioxane	ND	1.0	ug/L							07/28/2017	
LCS (B7G2901-BS1)											
1,4-dioxane	9.74	1.0	ug/L	10.00		97.4	70-130			07/28/2017	
Matrix Spike (B7G2901-MS1)											Source: 1707266-02
1,4-dioxane	9.97	1.0	ug/L	10.00	ND	99.7	70-130			07/28/2017	
Matrix Spike Dup (B7G2901-MSD1)											Source: 1707266-02
1,4-dioxane	9.72	1.0	ug/L	10.00	ND	97.2	70-130	2.54	30	07/28/2017	



Analysis Request Sheet

Lab Work Order Number 1707264	Project Name Gelman Sciences	Matrix WATER
Site Code/Project Number 81000018	AY 17	CC Email 1 adelman@michigan.gov
Dept-Division-District DEQ-RRD-Jackson	Index 44410	CC Email 2 lundk@michigan.gov
State Project Manager Dan Hamel	PCA 30740	CC Email 3 govusro@michigan.gov
State Project Manager Email hameld@michigan.gov	Project 451586	Overflow Lab Choice 1
State Project Manager Phone 517-745-6595	Phase 00	Overflow Lab Choice 2
		Project TAT Days 14 days
		Project Due Date
		Sample Collector Dan Hamel Perry Govus
		Sample Collector Phone 517-745-6595 517.290.9074
		Contract Firm
		Contract Firm Primary Contact
		Accept Analysis hold time codes
		Primary Contact Phone

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
01	HC/HR	7-24-17	8:33	3	HCL PF-1628 exp 8-4-17
02	MW-112d	7-24-17	9:37	3	"
03	MW-112s	7-24-17	10:23	3	"
04	MW-112i	7-24-17	11:13	3	"
05	MW-98S	7-24-17	12:27	3	"
06	MW-103d	7-24-17	13:21	3	"
07	DUP-01	7-24-17		3	"
08	MW-103S	7-24-17	14:02	3	"
09	MW-82S	7-24-17	15:05	3	"
10	Allen Creek Glendale	7-25-17	8:35	3	"

ORGANIC CHEMISTRY	MAD - DISSOLVED METALS	MA - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic	Diss - Silver - Ag	Silver - Ag	GB Total Cyanide - CN
Volatiles - Full List	Diss - Aluminum - Al	Aluminum - Al	GB Amenable Cyanide - CN
BTEX/MTBE/TMB only	Diss - Arsenic - As	Arsenic - As	GCN Available Cyanide - CN
Chlorinated only	Diss - Boron - B	Boron - B	CA Chlorophyll
GRO	Diss - Barium - Ba	Barium - Ba	GN Ortho Phosphate - OP
1,4 Dioxane	Diss - Beryllium - Be	Beryllium - Be	GN Nitrite - NO ₂
METH - Methane, Ethane, Ethene	Diss - Cadmium - Cd	Cadmium - Cd	GN Nitrate - NO ₃ (Calc.)
Methane, Ethane, Ethene	Diss - Cobalt - Co	Cobalt - Co	GN Suspended Solids - SS
ON - Pesticides, PCBs	Diss - Chromium - Cr	Chromium - Cr	GN Dissolved Solids - TDS
Pesticides & PCBs	Diss - Copper - Cu	Copper - Cu	MN Diss Solids - TDS (Calc.)
Pesticides only	Diss - Iron - Fe	Iron - Fe	GN Turbidity
PCBs only	Diss - Mercury - Hg	Mercury - Hg	MN Total Alkalinity
Toxaphene	Diss - Lithium - Li	Lithium - Li	MN Bicarb/Carb Alkalinity
Chlordane	Diss - Manganese - Mn	Manganese - Mn	(Includes Total Alkalinity)
BNA - Base Neutral Acids	Diss - Molybdenum - Mo	Molybdenum - Mo	MN Chloride - Cl
BNAs	Diss - Nickel - Ni	Nickel - Ni	MN Fluoride - F
Benzidines	Diss - Lead - Pb	Lead - Pb	MN Sulfate - SO ₄
PNAs only	Diss - Antimony - Sb	Antimony - Sb	MN Chromium 6+ - Cr+6
BNs only	Diss - Selenium - Se	Selenium - Se	MN Conductivity
Acids only	Diss - Strontium - Sr	Strontium - Sr	MN pH
Organic Specialty Requests	Diss - Titanium - Ti	Titanium - Ti	GA Chem Oxyg Dem - COD
Library search - Volatiles	Diss - Thallium - Tl	Thallium - Tl	GA Diss Org Carbon - DOC (FF)
Library search - SemiVols	Diss - Uranium - U	Uranium - U	(Field - Filtered & Preserved)
Finger Print	Diss - Vanadium - V	Vanadium - V	GN Diss Org Carbon - DOC (LF)
DRO / ORO	Diss - Zinc - Zn	Zinc - Zn	(Lab - Filtered & Preserved)
METALS CHEMISTRY PACKAGES	Diss - Calcium - Ca	Calcium - Ca	GA Total Org Carbon - TOC
OpMemo2 - Total	Diss - Potassium - K	Potassium - K	GA Ammonia - NH ₃
OpMemo2 - Dissolved	Diss - Magnesium - Mg	Magnesium - Mg	GA Nitrate+Nitrite - NO ₃ +NO ₂
(Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Ti,V,Zn)	Diss - Sodium - Na	Sodium - Na	GA Kjeldahl Nitrogen - KN
Michigan10 - Total	Diss - Hardness - Ca, Mg	Hardness - Ca, Mg	GA Total Phosphorus - TP
Michigan10 - Dissolved	MD - Metals Dissolved	LHG - Low Level Mercury	
(As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn)	Lab Filtration	Mercury Low Level - Hg	

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Perry Govus	Melissa Smith LESC	7/25/17 12:44
	Signature: <i>[Signature]</i>		
	Print Name & Org. [Blank]		
Signature: [Blank]			



Analysis Request Sheet

Lab Work Order Number: 170726 Project Name: **Gelman Sciences** Matrix: **WATER**

Site Code/Project Number: **81000018** AY: **17** CC Email 1: **adelman@michigan.gov** Project TAT Days:
 Dept-Division-District: **DEQ-RRD-Jackson** Index: **44410** CC Email 2: **lundk@michigan.gov** Project Due Date:
 State Project Manager: **Dan Hamel** PCA: **30740** CC Email 3: **govus r@michigan.gov** Sample Collector: **Dan Hamel Ray Govus**
 State Project Manager Email: **hameld@michigan.gov** Project: **451586** Overflow Lab Choice 1:
 State Project Manager Phone: **517-745-6595** Phase: **00** Overflow Lab Choice 2:
 Sample Collector Phone: **517-745-6595 517.290.9074**
 Contract Firm:
 Contract Firm Primary Contact:
 Primary Contact Phone:

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11 Sister Lake 2	7-25-17	9:10		HCL PF-1628 exp 8-4-17
2	12 Sister Lake 1	7-25-17	9:25		" "
3					
4					
5					
6					
7					
8					
9					
10					

ORGANIC CHEMISTRY	MAD - DISSOLVED METALS	MA - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic Volatiles - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10 METH - Methane, Ethane, Ethene Methane, Ethane, Ethene 1 2 3 4 5 6 7 8 9 10 ON - Pesticides, PCBs Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10 Pesticides only 1 2 3 4 5 6 7 8 9 10 PCBs only 1 2 3 4 5 6 7 8 9 10 Toxaphene 1 2 3 4 5 6 7 8 9 10 Chlordane 1 2 3 4 5 6 7 8 9 10 BNA - Base Neutral Acids BNAs 1 2 3 4 5 6 7 8 9 10 Benzidines 1 2 3 4 5 6 7 8 9 10 PNAs only 1 2 3 4 5 6 7 8 9 10 BNs only 1 2 3 4 5 6 7 8 9 10 Acids only 1 2 3 4 5 6 7 8 9 10 Organic Specialty Requests Library search - Volatiles 1 2 3 4 5 6 7 8 9 10 Library search - SemiVols 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO / ORO 1 2 3 4 5 6 7 8 9 10	Diss - Silver - Ag 1 2 3 4 5 6 7 8 9 10 Diss - Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Diss - Arsenic - As 1 2 3 4 5 6 7 8 9 10 Diss - Boron - B 1 2 3 4 5 6 7 8 9 10 Diss - Barium - Ba 1 2 3 4 5 6 7 8 9 10 Diss - Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Diss - Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Diss - Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Diss - Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Diss - Copper - Cu 1 2 3 4 5 6 7 8 9 10 Diss - Iron - Fe 1 2 3 4 5 6 7 8 9 10 Diss - Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Diss - Lithium - Li 1 2 3 4 5 6 7 8 9 10 Diss - Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Diss - Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Diss - Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Diss - Lead - Pb 1 2 3 4 5 6 7 8 9 10 Diss - Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Diss - Selenium - Se 1 2 3 4 5 6 7 8 9 10 Diss - Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Diss - Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Diss - Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Diss - Uranium - U 1 2 3 4 5 6 7 8 9 10 Diss - Vanadium - V 1 2 3 4 5 6 7 8 9 10 Diss - Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Diss - Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Diss - Potassium - K 1 2 3 4 5 6 7 8 9 10 Diss - Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Diss - Sodium - Na 1 2 3 4 5 6 7 8 9 10 Diss - Hardness - Ca, Mg 1 2 3 4 5 6 7 8 9 10 MD - Metals Dissolved Lab Filtration 1 2 3 4 5 6 7 8 9 10	Silver - Ag 1 2 3 4 5 6 7 8 9 10 Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Arsenic - As 1 2 3 4 5 6 7 8 9 10 Boron - B 1 2 3 4 5 6 7 8 9 10 Barium - Ba 1 2 3 4 5 6 7 8 9 10 Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Copper - Cu 1 2 3 4 5 6 7 8 9 10 Iron - Fe 1 2 3 4 5 6 7 8 9 10 Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Lithium - Li 1 2 3 4 5 6 7 8 9 10 Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Lead - Pb 1 2 3 4 5 6 7 8 9 10 Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Selenium - Se 1 2 3 4 5 6 7 8 9 10 Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Uranium - U 1 2 3 4 5 6 7 8 9 10 Vanadium - V 1 2 3 4 5 6 7 8 9 10 Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Potassium - K 1 2 3 4 5 6 7 8 9 10 Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Sodium - Na 1 2 3 4 5 6 7 8 9 10 Hardness - Ca, Mg 1 2 3 4 5 6 7 8 9 10 LHG - Low Level Mercury Mercury Low Level - Hg 1 2 3 4 5 6 7 8 9 10	GB Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 GB Amenable Cyanide - CN 1 2 3 4 5 6 7 8 9 10 GCN Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10 CA Chlorophyll 1 2 3 4 5 6 7 8 9 10 GN Ortho Phosphate - OP 1 2 3 4 5 6 7 8 9 10 GN Nitrite - NO ₂ 1 2 3 4 5 6 7 8 9 10 GN Nitrate - NO ₃ (Calc.) 1 2 3 4 5 6 7 8 9 10 GN Suspended Solids - SS 1 2 3 4 5 6 7 8 9 10 GN Dissolved Solids - TDS 1 2 3 4 5 6 7 8 9 10 MN Diss Solids - TDS (Calc.) 1 2 3 4 5 6 7 8 9 10 GN Turbidity 1 2 3 4 5 6 7 8 9 10 MN Total Alkalinity 1 2 3 4 5 6 7 8 9 10 MN Bicarb/Carb Alkalinity (Includes Total Alkalinity) 1 2 3 4 5 6 7 8 9 10 MN Chloride - Cl 1 2 3 4 5 6 7 8 9 10 MN Fluoride - F 1 2 3 4 5 6 7 8 9 10 MN Sulfate - SO ₄ 1 2 3 4 5 6 7 8 9 10 MN Chromium Cr - Cr+6 1 2 3 4 5 6 7 8 9 10 MN Conductivity 1 2 3 4 5 6 7 8 9 10 MN pH 1 2 3 4 5 6 7 8 9 10 GA Chem Oxyg Dem - COD 1 2 3 4 5 6 7 8 9 10 GA Diss Org Carbon - DOC (FF) (Field - Filtered & Preserved) 1 2 3 4 5 6 7 8 9 10 GN Diss Org Carbon - DOC (LF) (Lab - Filtered & Preserved) 1 2 3 4 5 6 7 8 9 10 GA Total Org Carbon - TOC 1 2 3 4 5 6 7 8 9 10 GA Ammonia - NH ₃ 1 2 3 4 5 6 7 8 9 10 GA Nitrate+Nitrite - NO ₃ +NO ₂ 1 2 3 4 5 6 7 8 9 10 GA Kjeldahl Nitrogen - KN 1 2 3 4 5 6 7 8 9 10 GA Total Phosphorus - TP 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. <u>Ray Govus</u> Signature: <u>[Signature]</u>	<u>Kristelle Smith</u> <u>[Signature]</u>	<u>7/25/17 12:44</u>
	Print Name & Org. _____ Signature: _____	_____	_____