

GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 1 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 001
Sampler : DB
Sample ID: LC-MP-1

Sample Date: 02/21/2019
Sample Time: 15:12

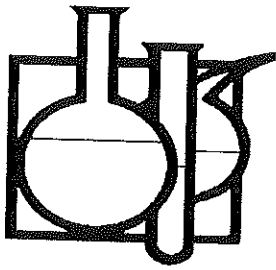
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.40	SU	DB	02/21/2019	15:12	150.1	(1)
Turbidity, Nephelometric	28.4	NTU	DB	02/21/2019	15:12	180.1	(1)
Conductance, Sp. (field)	174.4	umhos	DB	02/21/2019	15:12	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	296	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	91	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	31.0	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	3.19	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.71	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 2 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 002
Sampler : DB
Sample ID: LC-MP-2

Sample Date: 02/21/2019
Sample Time: 15:04

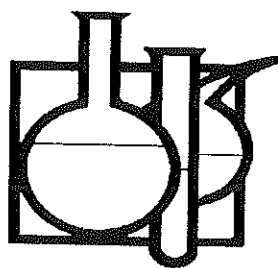
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.43	SU	DB	02/21/2019	15:04	150.1	(1)
Turbidity, Nephelometric	27.5	NTU	DB	02/21/2019	15:04	180.1	(1)
Conductance, Sp. (field)	174.9	umhos	DB	02/21/2019	15:04	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	288.	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	90.	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	30.8	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	3.21	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.37	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 3 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 003
Sampler : DB
Sample ID: LC-MP-3

Sample Date: 02/21/2019
Sample Time: 14:53

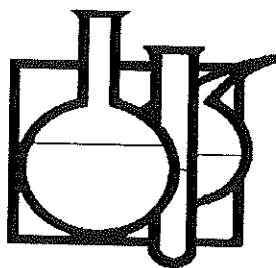
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.36	SU	DB	02/21/2019	14:53	150.1	(1)
Turbidity, Nephelometric	29.2	NTU	DB	02/21/2019	14:53	180.1	(1)
Conductance, Sp. (field)	178.7	umhos	DB	02/21/2019	14:53	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	279.	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	92.	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	31.6	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	3.30	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.53	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 4 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 004
Sampler : DB
Sample ID: LC-SS-6

Sample Date: 02/21/2019
Sample Time: 15:25

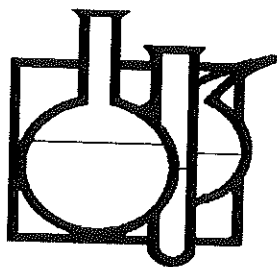
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.39	SU	DB	02/21/2019	15:25	150.1	(1)
Turbidity, Nephelometric	28.7	NTU	DB	02/21/2019	15:25	180.1	(1)
Conductance, Sp. (field)	173.8	umhos	DB	02/21/2019	15:25	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	311	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	88	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	30.3	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	3.07	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.50	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 5 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 005
Sampler : DB
Sample ID: LC-SS-7

Sample Date: 02/21/2019
Sample Time: 15:36

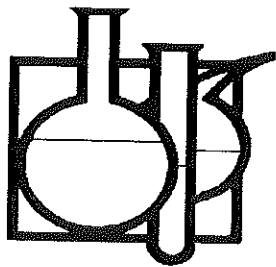
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.47	SU	DB	02/21/2019	15:36	150.1	(1)
Turbidity, Nephelometric	29.0	NTU	DB	02/21/2019	15:36	180.1	(1)
Conductance, Sp. (field)	167.7	umhos	LAB	02/21/2019	15:36	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	310.	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	84.	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	28.8	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	2.96	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.28	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 6 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 006
Sampler : DB
Sample ID: LC-SS-9

Sample Date: 02/21/2019
Sample Time: 15:55

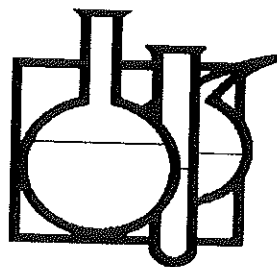
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.50	SU	DB	02/21/2019	15:55	150.1	(1)
Turbidity, Nephelometric	26.9	NTU	DB	02/21/2019	15:55	180.1	(1)
Conductance, Sp. (field)	166.7	umhos	DB	02/21/2019	15:55	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	289.	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	83.	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	28.2	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	2.96	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.59	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 7 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 007
Sampler : DB
Sample ID: LC-SS-10

Sample Date: 02/21/2019
Sample Time: 15:59

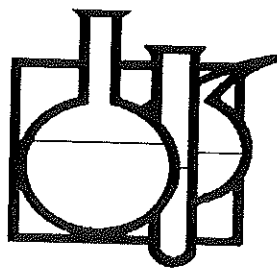
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.39	SU	DB	02/21/2019	15:59	150.1	(1)
Turbidity, Nephelometric	27.1	NTU	DB	02/21/2019	15:59	180.1	(1)
Conductance, Sp. (field)	166.8	umhos	DB	02/21/2019	15:59	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Color, APHA	280.	PCU	AH	02/22/2019	15:30	110.2	(1)
Hardness, Total	97.	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Calcium	33.6	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	3.25	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.11	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 8 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 008
Sampler : DB
Sample ID: DC-SS-3

Sample Date: 02/21/2019
Sample Time: 14:21

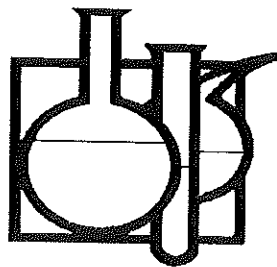
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.20	SU	DB	02/21/2019	14:21	150.1	(1)
Turbidity, Nephelometric	30.2	NTU	DB	02/21/2019	14:21	180.1	(1)
Conductance, Sp. (field)	163.	umhos	DB	02/21/2019	14:21	120.1	(1)
Color, APHA	256.	PCU	AH	02/22/2019	15:30	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Calcium	13.9	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	2.71	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.79	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Hardness, Total	46.	mg/L	DRH	02/22/2019	14:00	200.7	(1)

This Certificate is Continued On Next Page.

METHOD REFERENCES

1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996



GUARDIAN SYSTEMS, INC.

1108 Ashville Road
P.O. Box 190
Leeds, Alabama 35094

Telephone (205) 699-6647
Toll Free (866) 729-7211
Fax (205) 699-3882

Page 9 of 9

City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 02/28/2019
Receive Date: 02/21/2019
Receive Time: 16:55

Control No : 1902-00368 Sample # 009
Sampler : DB
Sample ID: DC-SS-4

Sample Date: 02/21/2019
Sample Time: 14:28

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.40	SU	DB	02/21/2019	14:28	150.1	(1)
Turbidity, Nephelometric	25.7	NTU	DB	02/21/2019	14:28	180.1	
Conductance, Sp. (field)	150.1	umhos	DB	02/21/2019	14:28	120.1	(1)
Color, APHA	260.	PCU	AH	02/22/2019	15:30	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	02/27/2019	13:35	350.2	(1)
Calcium	14.7	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Magnesium	2.81	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Potassium	1.59	mg/L	DRH	02/22/2019	14:00	200.7	(1)
Hardness, Total	48.	mg/L	DRH	02/22/2019	14:00	200.7	(1)

Approved By: Sunda Alex Miller
TMD

METHOD REFERENCES

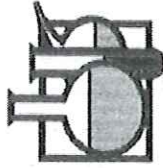
1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
2. Standard Methods for the Examination of Water and Waste Water, 18th, 19th, 20th, and 22nd Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3rd Edition, Updated IV December 1996
4. 1987 ASTM Annual Standards
5. Code of Federal Regulations, Title 40, Part 136, Appendix A, Revised July 1995
6. Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039, Revised July 1991, August 1995
7. NIOSH Manual of Analytical Methods, 4th Edition, May 1996

Guardian Systems, Inc.

1108 Ashville Road, P.O. Box 190
Leeds, Alabama 35094
(205) 699-6647
email: gsi@gsilab.com

Chain of Custody Record/ Analysis Report

(205) 699-3882 Fax
www.gsilab.com



Client: Mr. Brad Watson		Phone:	
Company: City of Leeds		Fax:	
Address: 1040 Park Drive		P.O.#:	
Leeds, AL 35094		Project: 2019 1st Semester Stormwater- WET	

Sample ID	Sample Description	Sample Date	Sample Time	Sample Bottle				Sample Preservative				Analysis Requested						
				Comp. *	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other **	Field pH:	Field Turbidity:	Field Conductivity:	APHA Color	Ammonia
LCMP1		2-21-19	3:12															7.40
																		28.4
																		192.25
																		174.4
LCMP2		2-21-19	3:04															7.43
																		27.5
																		174.9
																		195.5

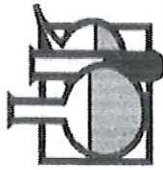
Sampled by: Dale Bracklage	Relinquished by: Dale Bracklage	Date: 2-21-19	Time: 16:55
Received by:	Relinquished by:	Date:	Time:
Received by:	Relinquished by:	Date:	Time:
Received for Laboratory by: Dale Bracklage	Date: 2-21-19	Time: 16:55	
Was Shipped Container intact when received? Yes ☒ No ☐	Initials: DB	Seals intact? Yes ☒ No ☐	
Were all samples properly preserved? Yes ☒ No ☐	Initials: DB	Sample temp. 61 °C	

Comments: Other = See Above for Sample Preservatives, Field Measurements			
PH Meter Calibration Info	Buffer Traceability #	Exp. Date	QC Sample
Buffer #: 392 (4.00)	INRE 1808 2002	2-29-20	Traceability # INQC 1808 0901
Buffer #: 700 (7.00)	INRE 1806 2901	2-31-19	pH: 6.42 (6.38)
Buffer #: 998 (10.00)	INRE 1806 0502	3-27-19	Turb:
Turbidity Meter Calibration Info	Standard Traceability #	Exp. Date	Calibration Date: 2-21-19
Standard # 800	C800187	Mon 19	Calibration Temp: 67 °F
Standard # 100	C800769	Mon 19	
Standard # 20	C800185	Mon 19	
Standard # 102	C80048	Mon 19	

Notes:	
--------	--

Chain of Custody Record/ Analysis Report

1108 Ashville Road, P.O. Box 190
Leeds, Alabama 35094
(205) 699-6647
email: gsi@gsilab.com



Client: Mr. Brad Watson			Phone:		
Company: City of Leeds			Fax:		
Address: 1040 Park Drive					
Leeds, AL 35094			P.O.#:		
Project: 2019 1 st Semester Stormwater- WET			Analysis Requested		

Sample ID	Sample Description	Sample Date	Sample Time	Sample Bottle				Sample Preservative					Other **					
				Comp.*	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C							
	LUMPB	2-21-19	2:53															
				X														
				X	X													
				X	X													
				X	X													
	LC SSV	2-21-19	3:25															

Sampled by: Dale Bracklage **Relinquished by:** Dale Bracklage **Date:** 2-21-19 **Time:** 16:55

Received by: **Relinquished by:** **Date:** **Time:**

Received by: **Relinquished by:** **Date:** **Time:**

Received for Laboratory by: Alex Pongner **Date:** 2/26/19 **Time:** 10:55

Was Shipped Container intact when received? Yes ☒ No ☐ **Seals intact?** Yes ☒ No ☐

Were all samples properly preserved? Yes ☒ No ☐ **Sample temp.** 10.1 °C

Comments: Other = See Above for Sample Preservatives, Field Measurements

PH Meter Calibration Info			Buffer Traceability #			Exp. Date			QC Sample			Technician Information		
Buffer #: 3.92 (4.00)	INRE	1808 2002	2-24-20	Traceability # INRC 1808 0801		Calibrated by: Dale Bracklage								
Buffer #: 7.00 (7.00)	INRE	1806 2901	8-31-19	pH: 6.42 (6.38)		Calibration Time: 2:05								
Buffer #: 9.48 (10.00)	INRE	1806 0502	3-27-19	Turb:		Calibration Date: 2-21-19								
Turbidity Meter Calibration Info	Standard Traceability #	Exp. Date				Calibration Temp: 67°F								
Standard # 800	C500187	May 2019												
Standard # 100	C500769	May 2019												
Standard # 20	C500185	May 2019												
Standard # -02	C50048	May 2019												

Notes:

(205) 699-3882 Fax
www.gsilab.com

Client:		Mr. Brad Watson						Phone:											
Company:		City of Leeds						Fax:											
Address:		1040 Park Drive						P.O.#:											
		Leeds, AL 35094						Project:											
		2019 1st Semester Stormwater- WET																	
Sample ID	Sample Description	Sample Date	Sample Time	Sample Preservative							Analysis Requested								
				Comp. *	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other **						
Sampled by:		Date: <u>Date Brecklage</u>		Time: <u>3:35</u>		Relinquished by:		Date: <u>2-21-19</u>		Time: <u>16:55</u>									
Received by:		Date: <u>Date Brecklage</u>		Time: <u>3:35</u>		Relinquished by:		Date: <u>2-21-19</u>		Time: <u>16:55</u>									
Received by:		Date: <u>Date Brecklage</u>		Time: <u>3:35</u>		Relinquished by:		Date: <u>2-21-19</u>		Time: <u>16:55</u>									
Was Shipped Container intact when received? Yes <u>X</u> No <u></u> Initials <u>LB</u> Seals intact? Yes <u>LB</u> No <u></u>																			
Were all samples properly preserved? Yes <u>X</u> No <u></u> Initials <u>LB</u> Sample temp. <u>64</u> °C																			
Comments: Other = See Above for Sample Preservatives, Field Measurements																			
PH Meter Calibration Info				Buffer Traceability #				Exp. Date				QC Sample				Technician Information			
Buffer #: <u>3.92 (4.00)</u>				<u>INRE 1808 2002</u>				<u>2-29-20</u>				<u>Traceability # INAC 1808 0801</u>				<u>Calibrated by: Date Brecklage</u>			
Buffer #: <u>7.00 (7.00)</u>				<u>INRE 1806 2901</u>				<u>5-31-19</u>				<u>pH: 6.42 (6.38)</u>				<u>Calibration Time: 2:05</u>			
Buffer #: <u>9.98 (10.00)</u>				<u>INRE 1806 0502</u>				<u>3-27-19</u>				<u>Turb:</u>				<u>Calibration Date: 2-21-19</u>			
Turbidity Meter Calibration Info				Standard Traceability #				Exp. Date								<u>Calibration Temp: 67°F</u>			
Standard # <u>800</u>				<u>C800187</u>				<u>Mar 2009</u>											
Standard # <u>100</u>				<u>C800769</u>				<u>Mar 2019</u>											
Standard # <u>200</u>				<u>C800185</u>				<u>Mar 2019</u>											
Standard # <u>100</u>				<u>C800449</u>				<u>Mar 2019</u>											
Notes:																			

Guardian Systems, Inc.

1108 Ashville Road, P.O. Box 190
Leeds, Alabama 35094
(205) 699-6647
email: gsi@gsilab.com

Chain of Custody Record/ Analysis Report

(205) 699-3882 Fax
www.gsilab.com



Client: Mr. Brad Watson		Phone:	
Company: City of Leeds		Fax:	
Address: 1040 Park Drive		P.O.#:	
Leeds, AL 35094		Project: 2019 1 st Semester Stormwater- WET	

Sample ID	Sample Description	Sample Date	Sample Time	Sample Bottle				Sample Preservative				Analysis Requested						
				Comp. *	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other **	Field pH:	Field Turbidity:	Field Conductivity:	APHA Color	Ammonia
LC 5510		2-21-19	3:59															7.39
																		27.1
																		166.8uS
				X		X												
				X		X												
				X		X												
DC 553		2-21-19	2:21															7.20
																		20.2
																		163.5
				X		X												
				X		X												
				X		X												

Sampled by: Date Breakage	Relinquished by: Date: 2-21-19	Time: 16:55
Received by: Date: 2-21-19	Relinquished by: Date: 2-21-19	Time: 16:55
Received by: Date: 2-21-19	Relinquished by: Date: 2-21-19	Time: 16:55
Received for Laboratory by: Date: 2-21-19	Time: 16:55	
Was Shipped Container intact when received? Yes ☒ No ☐	Seals intact? Yes ☒ No ☐	
Were all samples properly preserved? Yes ☒ No ☐	Initials <u>LB</u>	Sample temp. 6.1 °C

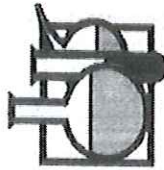
Comments: Other = See Above for Sample Preservatives, Field Measurements

PH Meter Calibration Info	Buffer Traceability #	Exp. Date	QC Sample	Technician Information
Buffer #: 5.92 (4.00)	INRE 1806 2002	2-29-19	Traceability # INRE 1806 0801	Calibrated by: Dale Breakage
Buffer #: 7.00 (7.00)	INRE 1806 2901	8-31-19	pH: 6.42 (6.38)	Calibration Time: 2:05
Buffer #: 9.98 (10.00)	INRE 1806 0502	3-27-19	Turb:	Calibration Date: 2-21-19
Turbidity Meter Calibration Info	Standard Traceability #	Exp. Date		Calibration Temp: 67°F
Standard # 800	C800187	Mar 2019		
Standard # 100	C800769	Mar 2019		
Standard # 20	C800185	Mar 2019		
Standard # 102	C80048	Mar 2019		

Notes:

Chain of Custody Record/ Analysis Report

(205) 699-3882 Fax
www.gsilib.com

[illegible]