

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: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 001
Sampler : DL
Sample ID: DC-SS-3

Sample Date: 09/22/2020
Sample Time: 8:41

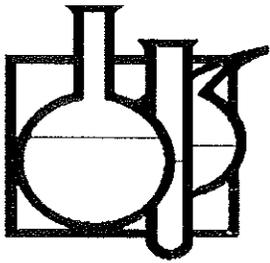
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
No Flow, No Sample					0:00		

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

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 002
Sampler : DB
Sample ID: DC-SS-4

Sample Date: 09/22/2020
Sample Time: 8:43

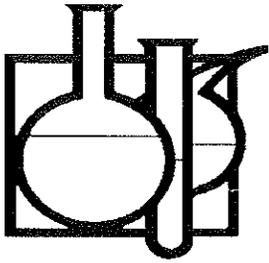
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
No Flow, No Sample					0:00		

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

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 003
Sampler : DL
Sample ID: LC-MP-3

Sample Date: 09/22/2020
Sample Time: 9:03

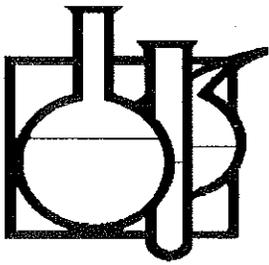
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.59	SU	DB	09/22/2020	9:03	150.1	
Turbidity, Nephelometric	2.18	NTU	DB	09/22/2020	9:03	180.1	
Conductance, Sp. (field)	1,028.	umhos	DB	09/22/2020	9:03	120.1	(1)
Nitrogen, Ammonia	0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Color, APHA	<10.	PCU	ML	09/22/2020	16:30	110.2	
Hardness, Total	181.	mg/L	DRH	09/30/2020	12:00	200.7	
Calcium	59.9	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	7.65	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	1.91	mg/L	DRH	10/29/2020	10:00	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
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 004
Sampler : DL
Sample ID: LC-MP-2

Sample Date: 09/22/2020
Sample Time: 9:12

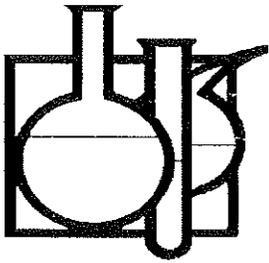
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.88	SU	DB	09/22/2020	9:12	150.1	
Turbidity, Nephelometric	2.23	NTU	DB	09/22/2020	9:12	180.1	
Conductance, Sp. (field)	972.	umhos	DB	09/22/2020	9:12	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Color, APHA	10.	PCU	ML	09/22/2020	16:30	110.2	
Hardness, Total	173.	mg/L	DRH	09/30/2020	12:00	200.7	
Calcium	57.6	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	7.09	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	1.95	mg/L	DRH	10/29/2020	10:00	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
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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 005
Sampler : DL
Sample ID: LC-MP-1

Sample Date: 09/22/2020
Sample Time: 9:17

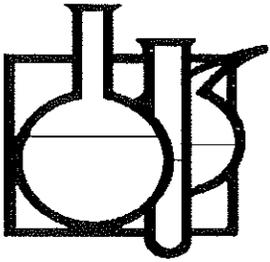
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.88	SU	DB	09/22/2020	9:17	150.1	
Turbidity, Nephelometric	2.02	NTU	DB	09/22/2020	9:17	180.1	
Conductance, Sp. (field)	972.	umhos	DB	09/22/2020	9:17	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Color, APHA	<10.	PCU	ML	09/22/2020	16:30	110.2	
Hardness, Total	173.	mg/L	DRH	09/30/2020	12:00	200.7	
Calcium	57.7	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	7.02	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	1.98	mg/L	DRH	10/29/2020	10:00	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
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 006
Sampler : DL
Sample ID: LC-SS-6

Sample Date: 09/22/2020
Sample Time: 9:41

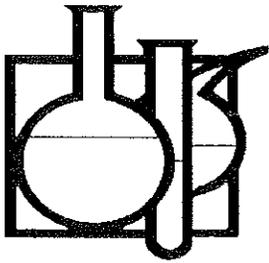
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.70	SU	DB	09/22/2020	9:41	150.1	
Turbidity, Nephelometric	2.21	NTU	DB	09/22/2020	9:41	180.1	
Conductance, Sp. (field)	929.	umhos	DB	09/22/2020	9:41	120.1	(1)
Nitrogen, Ammonia	0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Color, APHA	<10.	PCU	ML	09/22/2020	16:30	110.2	
Hardness, Total	163.	mg/L	DRH	09/30/2020	12:00	200.7	
Calcium	54.3	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	6.65	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	2.04	mg/L	DRH	10/29/2020	10:00	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 19J5
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 007
Sampler : DB
Sample ID: LC-SS-7

Sample Date: 09/22/2020
Sample Time: 9:56

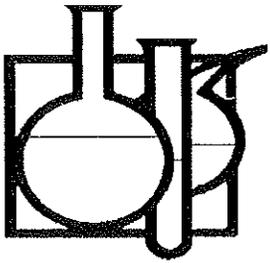
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.93	SU	DB	09/22/2020	9:56	150.1	
Turbidity, Nephelometric	4.04	NTU	DB	09/22/2020	9:56	180.1	
Conductance, Sp. (field)	921.	umhos	DB	09/22/2020	9:56	120.1	(1)
Nitrogen, Ammonia	0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Color, APHA	<10.	PCU	ML	09/22/2020	16:30	110.2	
Hardness, Total	151.	mg/L	DRH	09/30/2020	12:00	200.7	
Calcium	50.8	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	5.96	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	2.49	mg/L	DRH	10/29/2020	10:00	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
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Page 8 of 9

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

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 008
Sampler : DL
Sample ID: LC-SS-9

Sample Date: 09/22/2020
Sample Time: 10:16

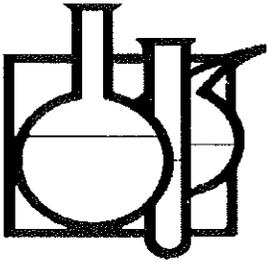
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	8.06	SU	DB	09/22/2020	10:16	150.1	
Turbidity, Nephelometric	2.28	NTU	DB	09/22/2020	10:16	180.1	
Conductance, Sp. (field)	914.	umhos	DB	09/22/2020	10:16	120.1	(1)
Color, APHA	<10.	PCU	ML	09/22/2020	16:30	110.2	
Nitrogen, Ammonia	0.2	mg/L	JH	09/22/2020	16:42	350.2	(1)
Calcium	50.7	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	5.95	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	2.76	mg/L	DRH	10/29/2020	10:00	200.7	(1)
Hardness, Total	151.	mg/L	DRH	09/30/2020	12:00	200.7	

This Certificate is Continued On Next Page.

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1. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-20, revised March 1983, August 1993 May 1994
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Page 9 of 9

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

Report Date: 10/30/2020
Receive Date: 09/22/2020
Receive Time: 11:00

Control No : 2009-00352 Sample # 009
Sampler : DL
Sample ID: LC-SS-10

Sample Date: 09/22/2020
Sample Time: 10:23

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	8.10	SU	DB	09/22/2020	10:23	150.1	
Turbidity, Nephelometric	2.51	NTU	DB	09/22/2020	10:23	180.1	
Conductance, Sp. (field)	915.	umhos	DB	09/22/2020	10:23	120.1	(1)
Color, APHA	10.	PCU	ML	09/22/2020	16:30	110.2	
Nitrogen, Ammonia	0.1	mg/L	JH	09/22/2020	16:42	350.2	(1)
Calcium	51.6	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Magnesium	6.00	mg/L	DRH	09/30/2020	12:00	200.7	(1)
Potassium	2.67	mg/L	DRH	10/29/2020	10:00	200.7	(1)
Hardness, Total	154.	mg/L	DRH	09/30/2020	12:00	200.7	

Approved By: 
DL

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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
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Guardian Systems, Inc.

108 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
 Company: City of Leeds
 Address: 1040 Park Drive
 Leeds, AL 35094

Phone: _____
 Fax: _____
 P.O.#: _____

Project: 2020 2nd Semester Stormwater- Dry
 Analysis Requested

Sample ID	Sample Description	Sample Date	Sample Time	Sample Bottle			Sample Preservative				Field pH:	Field Turbidity:	Field Conductivity:	APHA Color	Ammonia	Hardness. Ca. Mg. K
				Comp.*	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄						
DC-88-3	No Flow	9-22-20	8:41													
DC 554	No Flow		8:43													
	No Flow															

Sampled by: Dale Brockhouse
 Received by: Dale Brockhouse
 Received by: [Signature]
 Date: 9-22-20
 Date: 22 Sept 20
 Date: 22 Sept 20

Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Date: 9-22-20
 Date:
 Date:

Time: 11:00
 Time:
 Time:

Time: 1100
 Time: 1100
 Time: 1100

Seals intact? Yes No
 Initials No
 Initials No
 Initials No

Sample temp. 55 °C

Other = See Above for Sample Preservatives, Field Measurements

PH Meter Calibration Info	Buffer Traceability #	Exp. Date	QC Sample	Technician Information
Buffer #: 4.00	INRE 2003.0203	1-21-22	Traceability # INQC20051101	Calibrated by: [Signature]
Buffer #: 7.00	INRE 1910.1602	30 Sept 21	pH: 6.46 (6.40)	Calibration Time: 8:07
Buffer #: 10.00	INRE 1910.1603	10/20	Turb:	Calibration Date: 9-22-2020
Turbidity Meter Calibration Info	Standard Traceability #	Exp. Date		Calibration Temp: 59°F
Standard # 800	3/31	3/31		
Standard # 100	3/31	3/31		
Standard # 20	3/31	3/31		
Standard # 0.02	3/31	3/31		

Notes:

