

# 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: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156    Sample # 001  
Sampler : DB  
Sample ID: DC-33-3

Sample Date: 01/10/2019  
Sample Time: 9:47

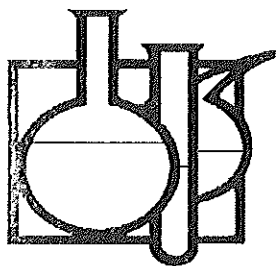
## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.11	SU	DB	01/10/2019	9:47	150.1	(1)
Turbidity, Nephelometric	10.18	NTU	DB	01/10/2019	9:47	180.1	
Conductance, Sp. (field)	215	umhos	DB	01/10/2019	9:47	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	70.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	91.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	28.8	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	4.55	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.47	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3<sup>rd</sup> 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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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156    Sample # 002  
Sampler : DB  
Sample ID: DC-SS-4

Sample Date: 01/10/2019  
Sample Time: 9:43

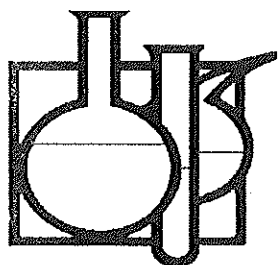
## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.31	SU	DB	01/10/2019	9:43	150.1	(1)
Turbidity, Nephelometric	10.52	NTU	DB	01/10/2019	9:43	180.1	
Conductance, Sp. (field)	207	umhos	DB	01/10/2019	9:43	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	58.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	96.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	30.6	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	4.77	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.51	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3<sup>rd</sup> Edition, Updated IV December 1996
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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 003  
Sampler : DB  
Sample ID: LC-MP-3

Sample Date: 01/10/2019  
Sample Time: 9:50

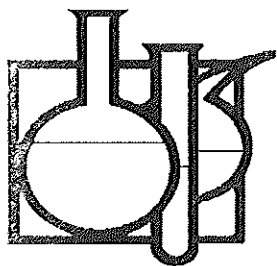
## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.45	SU	DB	01/10/2019	9:50	150.1	(1)
Turbidity, Nephelometric	3.40	NTU	DB	01/10/2019	9:50	180.1	
Conductance, Sp. (field)	407.	umhos	DB	01/10/2019	9:50	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	20.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	198.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	69.0	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	6.22	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.48	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 004  
Sampler : DB  
Sample ID: LC-MP-2

Sample Date: 01/10/2019  
Sample Time: 13:50

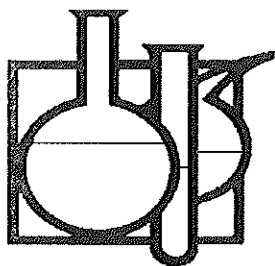
## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.25	SU	DB	01/10/2019	13:50	150.1	(1)
Turbidity, Nephelometric	4.40	NTU	DB	01/10/2019	13:50	180.1	
Conductance, Sp. (field)	397.	umhos	DB	01/10/2019	13:50	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	19.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	196.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	68.1	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	6.27	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.48	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 005  
Sampler : DB  
Sample ID: LC-MP-1

Sample Date: 01/10/2019  
Sample Time: 13:58

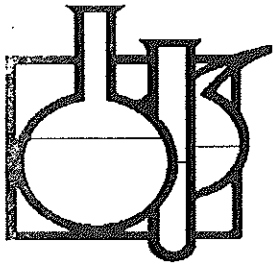
## Laboratory Certificate

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pH	7.62	SU	DB	01/10/2019	13:58	150.1	(1)
Turbidity, Nephelometric	2.47	NTU	DB	01/10/2019	13:58	180.1	
Conductance, Sp. (field)	386.	umhos	DB	01/10/2019	13:58	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	17.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	190.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	66.4	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	5.83	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.41	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3<sup>rd</sup> 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  
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1040 Park Drive  
Leeds, AL 35094  
Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 006  
Sampler : DB  
Sample ID: LC-SS-6

Sample Date: 01/10/2019  
Sample Time: 14:12

## Laboratory Certificate

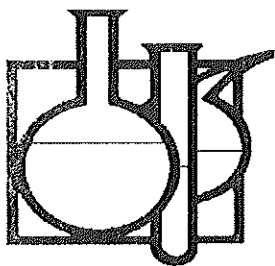
PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
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Turbidity, Nephelometric	2.41	NTU	DB	01/10/2019	14:12	180.1	
Conductance, Sp. (field)	369.	umhos	DB	01/10/2019	14:12	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	18.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	183.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	64.2	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	5.51	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.30	mg/L	DRH	01/14/2019	12:00	200.7	(1)

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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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
3. Test Methods for Evaluating Solid Wastes Physical Chemical Method SW-846, 3<sup>rd</sup> 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  
City of Leeds  
1040 Park Drive  
Leeds, AL 35094  
Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 007  
Sampler : DB  
Sample ID: LC-SS-7

Sample Date: 01/10/2019  
Sample Time: 14:19

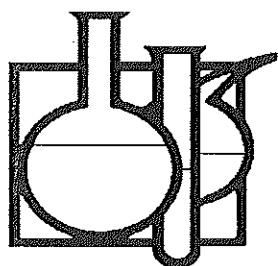
## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.77	SU	DB	01/10/2019	14:19	150.1	(1)
Turbidity, Nephelometric	2.55	NTU	DB	01/10/2019	14:19	180.1	
Conductance, Sp. (field)	360.	umhos	DB	01/10/2019	14:19	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Color, APHA	26.	PCU	AH	01/11/2019	14:30	110.2	(1)
Hardness, Total	189.	mg/L	DRH	01/14/2019	12:00	200.7	
Calcium	67.0	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	5.34	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.15	mg/L	DRH	01/14/2019	12:00	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, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 008  
Sampler : DB  
Sample ID: LC-SS-9

Sample Date: 01/10/2019  
Sample Time: 1:44

## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.73	SU	DB	01/10/2019	1:44	150.1	(1)
Turbidity, Nephelometric	3.57	NTU	DB	01/10/2019	1:44	180.1	
Conductance, Sp. (field)	352.	umhos	DB	01/10/2019	1:44	120.1	(1)
Color, APHA	24.	PCU	AH	01/11/2019	14:30	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Calcium	58.9	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	5.08	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.46	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Hardness, Total	168.	mg/L	DRH	01/14/2019	12:00	200.7	

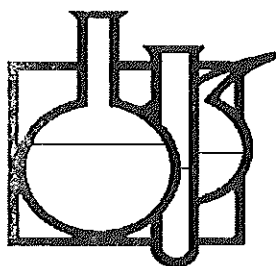
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This Certificate is Continued On Next Page.

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2. Standard Methods for the Examination of Water and Waste Water, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, and 22<sup>nd</sup> Edition, 2012
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Attention: Mr. Brad Watson

Report Date: 01/18/2019  
Receive Date: 01/10/2019  
Receive Time: 15:10

Control No : 1901-00156 Sample # 009  
Sampler : DB  
Sample ID: LC-SS-10

Sample Date: 01/10/2019  
Sample Time: 14:52

## Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.82	SU	DB	01/10/2019	14:52	150.1	(1)
Turbidity, Nephelometric	2.73	NTU	DB	01/10/2019	14:52	180.1	
Conductance, Sp. (field)	355.	umhos	DB	01/10/2019	14:52	120.1	(1)
Color, APHA	25.	PCU	AH	01/11/2019	14:30	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	01/16/2019	15:41	350.2	(1)
Calcium	58.7	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Magnesium	5.17	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Potassium	1.49	mg/L	DRH	01/14/2019	12:00	200.7	(1)
Hardness, Total	168.	mg/L	DRH	01/14/2019	12:00	200.7	

Approved By:   


### METHOD REFERENCES

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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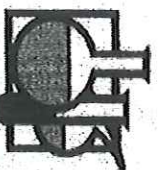


\* For composite samples include start and stop date and time in comments section \*\*Write in preservative used in comments



## Chain of Custody Record/ Analysis Report

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Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

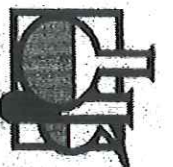
Sample Type	Sample Preservative	Analysis Requested
For composite samples include start and stop date and time in comments section	**Write in preservative used in comments	



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Leeds, Alabama 35094  
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Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

For composite samples include start and stop date and time in comments section \*\*Write in preservative used in comments



## Chain of Custody Record/ Analysis Report

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Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

\*For composite samples include start and stop date and time in comments section \*\*Write in preservative used in comments



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