

GUARDIAN SYSTEMS, INC.

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

Telephone (205) 699-6647
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: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 001
Sampler : PH
Sample ID: DC-SS-3

Sample Date: 08/04/2021
Sample Time: 12:50

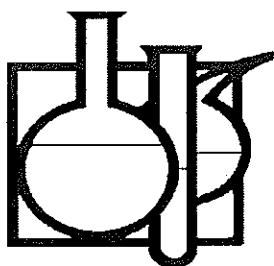
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.44	SU	PH	08/04/2021	12:50	4500-H	
Turbidity, Nephelometric	3.58	NTU	PH	08/04/2021	12:50	180.1	
Specific Conductance (FLD)	589	umhos	PH	08/04/2021	12:50	120.1	(1)
Color, APHA	<10.	PCU	CFS	08/04/2021	17:10	SM2120B	
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Hardness, Total	129.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	41.7	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.97	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	1.08	mg/L	DRH	08/06/2021	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, 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



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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 002
Sampler : PH
Sample ID: DC-SS-4

Sample Date: 08/04/2021
Sample Time: 12:55

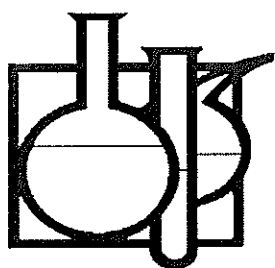
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.51	SU	PH	08/04/2021	12:55	4500-H	
Turbidity, Nephelometric	4.12	NTU	PH	08/04/2021	12:55	180.1	
Specific Conductance (FLD)	592	umhos	PH	08/04/2021	12:55	120.1	(1)
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Hardness, Total	129.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	41.8	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.93	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	1.28	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Color, APHA	18.	PCU	CFS	08/04/2021	17:10	SM2120B	

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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Attention: Mr. Brad Watson

Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 003
Sampler : PH
Sample ID: LC-MP-3

Sample Date: 08/04/2021
Sample Time: 12:40

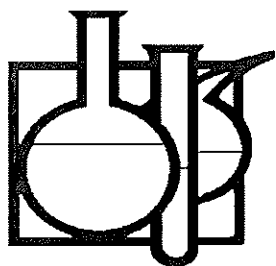
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.66	SU	PH	08/04/2021	12:40	150.1	
Turbidity, Nephelometric	2.92	NTU	PH	08/04/2021	12:40	180.1	
Conductance, Sp. (field)	812	umhos	PH	08/04/2021	12:40	120.1	(1)
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Color, APHA	12.	PCU	CFS	08/04/2021	17:10	110.2	
Hardness, Total	189.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	65.8	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	6.02	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	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
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 004
Sampler : PH
Sample ID: LC-MP-2

Sample Date: 08/04/2021
Sample Time: 12:30

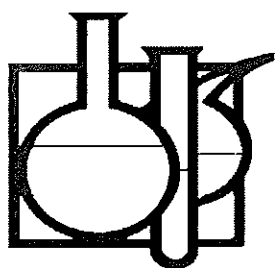
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.54	SU	PH	08/04/2021	12:30	150.1	
Turbidity, Nephelometric	3.22	NTU	PH	08/04/2021	12:30	180.1	
Conductance, Sp. (field)	837	umhos	PH	08/04/2021	12:30	120.1	(1)
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Color, APHA	16.	PCU	CFS	08/04/2021	17:10	110.2	
Hardness, Total	198.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	68.3	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	6.74	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	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, 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: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 005
Sampler : PH
Sample ID: LC-MP-1

Sample Date: 08/04/2021
Sample Time: 12:20

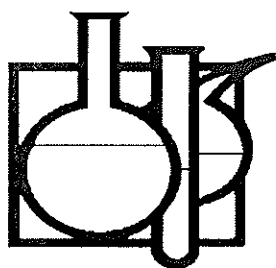
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.50	SU	PH	08/04/2021	12:20	150.1	
Turbidity, Nephelometric	3.21	NTU	PH	08/04/2021	12:20	180.1	
Conductance, Sp. (field)	816	umhos	PH	08/04/2021	12:20	120.1	(1)
Nitrogen, Ammonia	0.3	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Color, APHA	15.	PCU	CFS	08/04/2021	17:10	110.2	
Hardness, Total	187.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	64.8	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	6.21	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	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, 18th, 19th, 20th, and 22nd Edition, 2012
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Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 006
Sampler : PH
Sample ID: LC-SS-6

Sample Date: 08/04/2021
Sample Time: 13:24

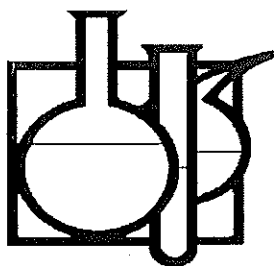
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.39	SU	PH	08/04/2021	13:24	150.1	
Turbidity, Nephelometric	1.94	NTU	PH	08/04/2021	13:24	180.1	
Conductance, Sp. (field)	806	umhos	PH	08/04/2021	13:24	120.1	(1)
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Color, APHA	<10.	PCU	CFS	08/04/2021	17:10	110.2	
Hardness, Total	181.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	62.8	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.78	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	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, 18th, 19th, 20th, and 22nd Edition, 2012
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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 007
Sampler : PH
Sample ID: LC-SS-7

Sample Date: 08/04/2021
Sample Time: 13:14

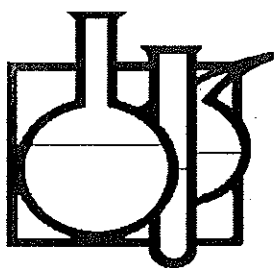
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.75	SU	PH	08/04/2021	13:14	150.1	
Turbidity, Nephelometric	3.55	NTU	PH	08/04/2021	13:14	180.1	
Conductance, Sp. (field)	827	umhos	PH	08/04/2021	13:14	120.1	(1)
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Color, APHA	<10.	PCU	CFS	08/04/2021	17:10	110.2	
Hardness, Total	175.	mg/L	DRH	08/06/2021	12:00	200.7	
Calcium	60.9	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.48	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	12:00	200.7	(1)

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
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: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 008
Sampler : PH
Sample ID: LC-SS-9

Sample Date: 08/04/2021
Sample Time: 13:48

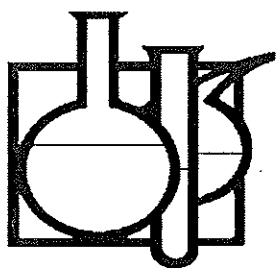
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.71	SU	PH	08/04/2021	13:48	150.1	
Turbidity, Nephelometric	3.48	NTU	PH	08/04/2021	13:48	180.1	
Conductance, Sp. (field)	775	umhos	PH	08/04/2021	13:48	120.1	(1)
Color, APHA	<10.	PCU	CFS	08/04/2021	17:10	110.2	
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Calcium	61.4	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.59	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	1.17	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Hardness, Total	176.	mg/L	DRH	08/06/2021	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
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 9 of 9

City of Leeds
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Attention: Mr. Brad Watson

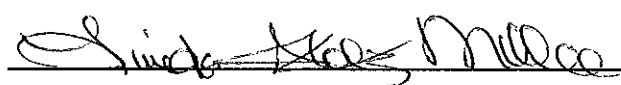
Report Date: 08/16/2021
Receive Date: 08/04/2021
Receive Time: 14:45

Control No : 2108-00100 Sample # 009
Sampler : PH
Sample ID: LC-SS-10

Sample Date: 08/04/2021
Sample Time: 13:52

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.65	SU	PH	08/04/2021	13:52	150.1	
Turbidity, Nephelometric	3.21	NTU	PH	08/04/2021	13:52	180.1	
Conductance, Sp. (field)	761	umhos	PH	08/04/2021	13:52	120.1	(1)
Color, APHA	<10.	PCU	CFS	08/04/2021	17:10	110.2	
Nitrogen, Ammonia	0.2	mg/L	CAC	08/09/2021	13:54	350.2	(1)
Calcium	61.6	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Magnesium	5.55	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Potassium	<1.0	mg/L	DRH	08/06/2021	12:00	200.7	(1)
Hardness, Total	177.	mg/L	DRH	08/06/2021	12:00	200.7	

Approved By: 

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Chain of Custody Record/ Analysis Report

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www.gsilab.com



Client:	Mr. Brad Watson	Phone:	
Company:	City of Leeds	Fax:	
Address:	1040 Park Drive	P.O.#:	
	Leeds, AL 35094	Project:	2021 2nd Semester Stormwater-Dry

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°	Other**		
DC-553		8-4-21	1250											Field pH: 7.44	
														Field Turbidity: UP: 3.58	DWN: 3.94
														Field Conductivity: 589	
				X	X		X					X		APHA Color	
				X	X		X			X		X		Ammonia	
				X	X		X					X		Hardness. Ca. Mg. K	
DC 554			1255											Field pH: 7.51	
														Field Turbidity: UP: 4.12	DWN: 3.59
														Field Conductivity: 592	
				X	X		X					X		APHA Color	
				X	X		X			X		X		Ammonia	
				X	X		X					X		Hardness. Ca. Mg. K	

Sampled by:	PATRICK HICKMAN	Relinquished by:	PR	Date:	8-4-21	Time:	1445
Received by:		Relinquished by:		Date:		Time:	
Received by:		Relinquished by:		Date:		Time:	
Received for Laboratory by:	Joe Bryner	Date:	04 Aug 21	Time:	1445		
Was Shipped Container intact when received?	Yes	No	Initials	Seals intact?	Yes	No	
Were all samples properly preserved?	Yes	No	Initials	Sample temp.	4	°C	

Other = See Above for Sample Preservatives, Field Measurements				QC Sample				Technician Information			
PH Meter Calibration Info				Traceability #20030203				Calibrated by: PR			
Buffer #: 4	20030203	Exp. Date	21JAN22	Traceability #	20030203	30APR22		Calibration Time:	0810		
Buffer #: 7	19101602	Exp. Date	30SEP21	pH:	6.12	6.13		Calibration Date:	8-4-21		
Buffer #: 10	20030204	Exp. Date	04OCT21	Turb:				Calibration Temp:	72°F		
Turbidity Meter Calibration Info				Standard Traceability #				Notes:			
Standard # 900	2040055	Exp. Date	JUL22								
Standard # 100	20500202	Exp. Date	JUL22								
Standard # 20	20510129	Exp. Date	JUL22								
Standard # 202	21030063	Exp. Date	JUL22								

Guardian Systems, Inc.

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Chain of Custody Record/ Analysis Report

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Client:	Mr. Brad Watson	Phone:	
Company:	City of Leeds	Fax:	
Address:	1040 Park Drive	P.O.#:	
	Leeds, AL 35094	Project:	2021 2nd Semester Stormwater- Dry

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°	Other **				
	LC-MP3	8-4-21	1240											Field pH: 7.66			
														Field Turbidity: 0.2.92	DWN: 4.04		
														Field Conductivity: 812			
				X	X		X						X	APHA Color			
				X	X		X					X	X	Ammonia			
				X	X		X						X	Hardness. Ca. Mg. K			
	LC MP2	8-4-21	1236											Field pH: 7.54			
														Field Turbidity: 0.3.22	DWN: 4.10		
														Field Conductivity: 837			
				X	X		X						X	APHA Color			
				X	X		X					X	X	Ammonia			
				X	X		X						X	Hardness. Ca. Mg. K			

Sampled by:	PATRICK NICKMAN	Relinquished by:	QAZ	Date:	8-4-21	Time:	1445
Received by:		Relinquished by:		Date:		Time:	
Received by:		Relinquished by:		Date:		Time:	
Received for Laboratory by:	John Berglund	Date:	04 Aug 21	Time:	1445		
Was Shipped Container intact when received?	Yes	No	Initials	Seals intact?	Yes	No	
Were all samples properly preserved?	Yes	No	Initials	Sample temp.	4	°C	

Comments:	Other = See Above for Sample Preservatives, Field Measurements
PH Meter Calibration Info	QC Sample
Buffer #:	Traceability #
Buffer #:	Calibrated by:
Buffer #:	Calibration Time:
Turbidity Meter Calibration Info	Calibration Date:
Standard #	Calibration Temp:
Standard #	
Standard #	
Standard #	

Notes:

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Leeds, Alabama 35094

(205) 699-6647

email: asi@qsilab.com

Phone:

Fax:

P.O.#:

Project:	2021 2nd Semester Stormwater Day
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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 40°	Other **						
	LC 559	8-24-21	1314													Field pH: 7.75			
																Field Turbidity: μP : 3.53			
																Field Conductivity: 827			
				X	X	X	X					X				APHA Color			
				X	X	X	X					X				Ammonia			
				X	X	X	X					X				Hardness. Ca. Mg. K			
	LC 559	8-24-21	1343													Field pH: 7.71			
																Field Turbidity: μP : 3.43			
																Field Conductivity: 775			
				X	X	X	X					X				APHA Color			
				X	X	X	X					X				Ammonia			
				X	X	X	X					X				Hardness. Ca. Mg. K			
Sampled by:	PATRICK HICKMAN	Date:	Time:	SIGN				Relinquished by:				Date:	Time:	Date: 8-24-21 Time: 1445					
Received by:		Date:	Time:					Relinquished by:				Date:	Time:	Date: Time:					
Received for Laboratory by:	Don Palmer	Date:	Time:					Relinquished by:				Date:	Time:	Date: Time:					
Was Shipped Container intact when received?	Yes	No	Initials	Seals intact?	Yes	No													
Were all samples properly preserved?	Yes	No	Initials	Sample temp.															
Comments:	Other = See Above for Sample Preservatives, Field Measurements																		
				Buffer Traceability #				Exp. Date				QC Sample				Technician Information			

Buffer #:		Traceability #	Calibrated by:
Buffer #:		pH:	Calibration Time:
Buffer #:		Turb:	Calibration Date:
Turbidity Meter Calibration Info		Exp. Date	Calibration Temp:
Standard #			
Standard #			
Standard #			
Standard #			
Notes:			

Chain of Custody Record/ Analysis Report

(205) 699-3882 Fax
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