

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 4

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

Report Date: 04/25/2017
Receive Date: 04/18/2017
Receive Time: 14:45

Control No : 1704-00291 Sample # 001
Sampler : DL
Sample ID: Little Cahaba River - Upstream Dry Samples

Sample Date: 04/18/2017
Sample Time: 14:00

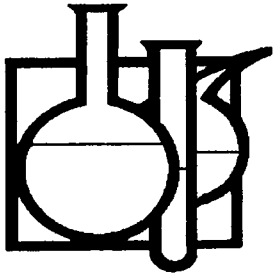
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
Phosphate, Total Phosphorus	0.38	mg/L	TLB	04/20/2017	21:32	365.2	(1)
Biochemical Oxygen Demand	2.	mg/L	LSC	04/24/2017	10:00	SM 5210B	(2)
BOD, Initial Set-up			LSC	04/19/2017	9:00		
BOD, Final Read Back			LSC	04/24/2017	10:00		
Solids, Total Suspended	3.	mg/L	MJN	04/20/2017	17:00	SM-2540D	(2)
Solids, Total Dissolved	246.	mg/L	LSC	04/21/2017	15:00	SM-2540C	(2)
Nitrogen, Nitrite	<0.10	mg/L	LSC	04/20/2017	10:00	300.0	(1)
Nitrogen, Nitrate	1.56	mg/L	LSC	04/20/2017	10:00	300.0	(1)
Phosphorous, Dissolved	0.35	mg/L	TLB	04/20/2017	21:32	365.2	(1)
Chromium Hex. Colorimetric	<0.02	mg/l	MJN	04/18/2017	8:30	3500-Cr B	
Fecal Coliform	10.	col/100mL	LSC	04/19/2017	15:30	SM-9222 D	(2)
E-Coli	6.	col/100mL	LSC	04/19/2017	15:30	SM-9222 B	(2)
Mercury, Total	<0.001	mg/L	CFS	04/21/2017	14:30	245.7	
Copper	<0.02	mg/L	DRH	04/24/2017	10:00	200.7	
Nickel	0.002	mg/L	DRH	04/24/2017	10:00	200.8	
Silver, Total	<0.001	mg/L	DRH	04/24/2017	10:00	200.8	
Zinc	<0.03	mg/L	DRH	04/24/2017	10:00	200.7	(1)
Lead - mg/L	<0.001	mg/L	DRH	04/20/2017	14:00	200.8	

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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Attention: Mr. Brad Watson

Report Date: 04/25/2017
Receive Date: 04/18/2017
Receive Time: 14:45

Control No : 1704-00291 Sample # 001
Sampler : DL
Sample ID: Little Cahaba River - Upstream Dry Samples

Sample Date: 04/18/2017
Sample Time: 14:00

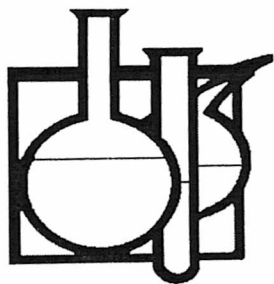
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
Hardness, Total	190.	mg/L	DRH	04/20/2017	12:00	200.7	
Chromium, Trivalent	<0.02	mg/L	DRH	04/24/2017	10:00	200.7	(1)
Calcium	67.0	mg/L	DRH	04/20/2017	12:00	200.7	(1)
Magnesium	5.50	mg/L	DRH	04/20/2017	12:00	200.7	(1)
Oil and Grease, Total	<5.0	mg/L	LSC	04/20/2017	8:00	1664	
Cyanide (Total)	<0.02	mg/L	TLB	04/25/2017	14:10	335.4	(1)
Nitrogen, Kjeldahl	<0.5	mg/L	TLB	04/21/2017	14:17	351.2	(1)
Chemical Oxygen Demand	<10.0	mg/L	CFS	04/21/2017	17:00	410.4	(1)
Nitrogen, Ammonia	0.12	mg/L	TLB	04/20/2017	15:31	350.2	(1)
Arsenic	<0.001	mg/L	DRH	04/24/2017	10:00	200.8	
pH	7.32	SU	LSC	04/18/2017	17:30	150.1	(1)

This Certificate is Continued On Next Page.

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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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Attention: Mr. Brad Watsor

Report Date: 04/25/2017
Receive Date: 04/18/2017
Receive Time: 14:45

Control No: 1704-00291 Sample # 002
Sampler: DL
Sample ID: Little Cahaba River- Downstream Dry Samples

Sample Date: 04/18/2017
Sample Time: 14:30

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
Hardness, Total	213.	mg/L	DRH	04/20/2017	12:00	200.7	
Chromium, Trivalent	<0.02	mg/L	DRH	04/24/2017	10:00	200.7	(1)
Calcium	73.4	mg/L	DRH	04/20/2017	12:00	200.7	(1)
Magnesium	7.20	mg/L	DRH	04/20/2017	12:00	200.7	(1)
Oil and Grease, Total	<5.0	mg/L	LSC	04/20/2017	8:00	1664	
Cyanide (Total)	<0.02	mg/L	TLB	04/25/2017	14:10	335.4	(1)
Nitrogen, Kjeldahl	<0.5	mg/L	TLB	04/21/2017	14:17	351.2	(1)
Chemical Oxygen Demand	<10.0	mg/L	CFS	04/21/2017	17:00	410.4	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	04/20/2017	15:31	350.2	(1)
Arsenic	<0.001	mg/L	DRH	04/24/2017	10:00	200.8	
pH	7.69	SU	LSC	04/18/2017	17:30	150.1	(1)

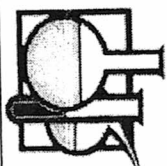
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Chain of Custody Record/ Analysis Report

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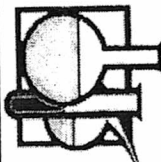


Put an "X" in the appropriate column for sample type and sample preservative. Write in analysis requested.

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

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