

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: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 001
Sampler : DL
Sample ID: LC-MP-3

Sample Date: 05/30/2018
Sample Time: 11:21

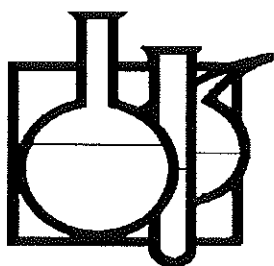
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.36	SU	DL	05/30/2018	11:21	150.1	(1)
Turbidity, Nephelometric	19.0	NTU	DL	05/30/2018	11:21	180.1	
Conductance, Sp. (field)	646	umhos	DL	05/30/2018	11:21	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	87	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	119	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	40.1	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.51	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.82	mg/L	DRH	06/07/2018	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
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 002
Sampler : DL
Sample ID: LC-MP-2

Sample Date: 05/30/2018
Sample Time: 11:26

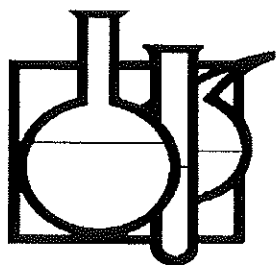
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.43	SU	DL	05/30/2018	11:26	150.1	(1)
Turbidity, Nephelometric	19.3	NTU	DL	05/30/2018	11:26	180.1	
Conductance, Sp. (field)	551	umhos	DL	05/30/2018	11:26	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	90	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	111	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	37.4	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.27	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.67	mg/L	DRH	06/07/2018	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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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 003
Sampler : DL
Sample ID: LC-MP-1

Sample Date: 05/30/2018
Sample Time: 11:32

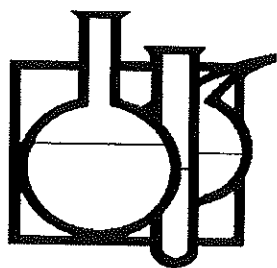
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.45	SU	DL	05/30/2018	11:32	150.1	(1)
Turbidity, Nephelometric	22.7	NTU	DL	05/30/2018	11:32	180.1	
Conductance, Sp. (field)	507	umhos	DL	05/30/2018	11:32	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	90	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	102	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	34.1	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.14	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.94	mg/L	DRH	06/07/2018	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: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 004
Sampler : DL
Sample ID: LC-SS-6

Sample Date: 05/30/2018
Sample Time: 11:47

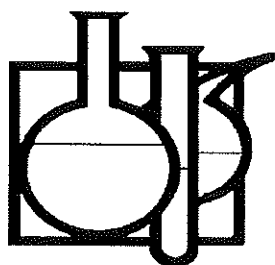
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.42	SU	DL	05/30/2018	11:47	150.1	(1)
Turbidity, Nephelometric	24.9	NTU	DL	05/30/2018	11:47	180.1	
Conductance, Sp. (field)	552	umhos	DL	05/30/2018	11:47	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	119.	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	115.	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	38.9	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.24	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.87	mg/L	DRH	06/07/2018	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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City of Leeds
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1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 005
Sampler : DL
Sample ID: LC-SS-7

Sample Date: 05/30/2018
Sample Time: 11:55

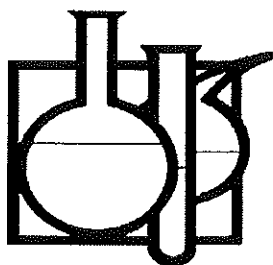
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.45	SU	DL	05/30/2018	11:55	150.1	(1)
Turbidity, Nephelometric	30.6	NTU	DL	05/30/2018	11:55	180.1	
Conductance, Sp. (field)	534	umhos	DL	05/30/2018	11:55	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	102.	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	110.	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	37.3	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.03	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.80	mg/L	DRH	06/07/2018	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
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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 006
Sampler : DL
Sample ID: LC-SS-9

Sample Date: 05/30/2018
Sample Time: 12:10

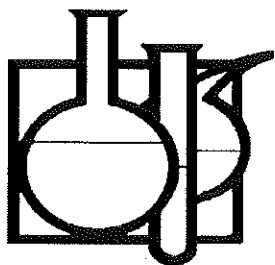
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.42	SU	DL	05/30/2018	12:10	150.1	(1)
Turbidity, Nephelometric	30.4	NTU	DL	05/30/2018	12:10	180.1	
Conductance, Sp. (field)	510	umhos	DL	05/30/2018	12:10	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	123.	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	104.	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	35.0	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.05	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.93	mg/L	DRH	06/07/2018	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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City of Leeds
City of Leeds
1040 Park Drive
Leeds, AL 35094
Attention: Mr. Brad Watson

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 007
Sampler : DL
Sample ID: LC-SS-10

Sample Date: 05/30/2018
Sample Time: 12:14

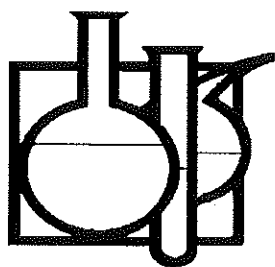
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.40	SU	DL	05/30/2018	12:14	150.1	(1)
Turbidity, Nephelometric	35.7	NTU	DL	05/30/2018	12:14	180.1	
Conductance, Sp. (field)	512	umhos	DL	05/30/2018	12:14	120.1	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Color, APHA	138.	PCU	AH	06/05/2018	11:00	110.2	(1)
Hardness, Total	107.	mg/L	DRH	06/07/2018	12:00	200.7	
Calcium	36.0	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.13	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Potassium	1.96	mg/L	DRH	06/07/2018	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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Page 8 of 9

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

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 008
Sampler : DL
Sample ID: DC-SS-3

Sample Date: 05/30/2018
Sample Time: 12:22

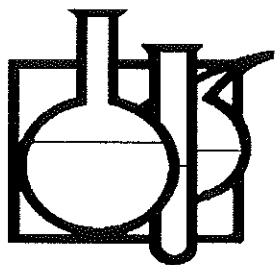
Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.51	SU	DL	05/30/2018	12:22	150.1	(1)
Specific Conductance	354.	umhos	DL	05/30/2018	12:22	120.1	(1)
Turbidity, Nephelometric	134	NTU	DL	05/30/2018	12:22	180.1	
Color, APHA	710.	PCU	AH	06/05/2018	11:00	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Calcium	20.4	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.03	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Hardness, Total	68.	mg/L	DRH	06/07/2018	12:00	200.7	
Potassium	2.79	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Conductance, Sp. (field)	354	umhos	DL	05/30/2018	12:22	120.1	(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 9 of 9

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

Report Date: 06/26/2018
Receive Date: 05/30/2018
Receive Time: 17:00

Control No : 1806-00037 Sample # 009
Sampler : DL
Sample ID: DC-SS-4

Sample Date: 05/30/2018
Sample Time: 12:30

Laboratory Certificate

PARAMETER	RESULTS	UNITS	ANALYST	DATE	TIME	METHOD	REF
pH	7.49	SU	DL	05/30/2018	12:30	150.1	(1)
Turbidity, Nephelometric	142	NTU	DL	05/30/2018	12:30	180.1	
Color, APHA	650.	PCU	AH	06/05/2018	11:00	110.2	(1)
Nitrogen, Ammonia	<0.1	mg/L	TLB	06/07/2018	17:05	350.2	(1)
Calcium	21.2	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Magnesium	4.10	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Hardness, Total	70.	mg/L	DRH	06/07/2018	12:00	200.7	
Potassium	2.76	mg/L	DRH	06/07/2018	12:00	200.7	(1)
Conductance, Sp. (field)	350	umhos	DL	05/30/2018	12:30	120.1	(1)

Approved By: _____

[Signature]
MB

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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Chain of Custody Record/ Analysis Report

Guardian Systems, Inc.

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www.gsilib.com

Client: Mr. Brad Watson						Phone:												
Company: City of Leeds						Fax:												
Address: 1040 Park Drive						P.O.#:												
Leeds, AL 35094						Project: 2018 Annual 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 **					
	LC-MP-3	5/30	1121															
					X													
					X													
					X													
	LC-MP-2	5/30	1126															
					X													
					X													
					X													
Sampled by:	Dennis R Lyons	Date:	5/30	Time:	1126	Relinquished by:	Daniel	Date:	30 May 18	Time:	1700							
Received by:		Date:		Time:		Relinquished by:		Date:		Time:								
Received by:	Ju Pempner	Date:	30 May 18	Time:	1700	Relinquished by:		Date:		Time:								
Received for Laboratory by:	Ju Pempner	Date:	30 May 18	Time:	1700	Seals intact?	Yes	No										
Was Shipped Container intact when received?	Yes	No		Initials	bj	Sample temp.	69.0											
Were all samples properly preserved?	Yes	No		Initials	bj													
Comments:	Other = See Above for Sample Preservatives, Field Measurements																	

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

(205) 699-3882 Fax
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Client:	Mr. Brad Watson	Phone:																	
Company:	City of Leeds	Fax:																	
Address:	1040 Park Drive Leeds, AL 35094	P.O.#:																	
		Project:	2018 Annual Stormwater- Wet Analysis Requested																
Sample ID	Sample Description	Sample Date	Sample Time	Comp.*	Grab	Glass	Plastic	HCl	HNO ₃	H ₂ SO ₄	NaOH	Cool 4°C	Other**	Analysis Requested					
	LC-MP-1	5/30	1132												Field pH: 7.43				
															Field Turbidity: 22.7 NTU				
					X	X	X								Field Conductivity: 507 uS				
					X	X	X					X			APHA Color				
					X	X	X			X		X			Ammonia				
															Hardness. Ca. Mg. K				
	LC-SS-6	5/30	1147												Field pH: 7.42				
															Field Turbidity: 24.9 NTU				
															Field Conductivity: 552 uS				
					X	X	X					X			APHA Color				
					X	X	X			X		X			Ammonia				
					X	X	X					X			Hardness. Ca. Mg. K				
Sampled by:	Dennis B. Lyons	Date:	5/30/18	Time:	11:30 AM	Relinquished by:	L. Lyons	Date:	30 May 18	Time:	1:17 PM								
Received by:		Date:		Time:		Relinquished by:		Date:		Time:									
Received for Laboratory by:	Jodi Byrner	Date:	30 May 18	Time:	1:00 PM	Relinquished by:		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.	59 °C														
Comments:	Other = See Above for Sample Preservatives, Field Measurements																		

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

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

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

[illegible]

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

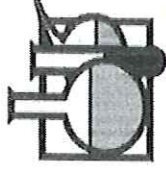
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Guardian Systems, Inc.

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Client: Mr. Brad Watson		Phone:	
Company: City of Leeds		Fax:	
Address: 1040 Park Drive		P.O.#:	
Leeds, AL 35094		Project: 2018 Annual 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 **	Field pH:	Field Turbidity:	Field Conductivity:	APHA Color	Ammonia	Hardness. Ca. Mg. K														
LC-55-10		5/30	1248														7.40	35.7 NTU	512 uS														
DC-55-3		5/30	1222														7.51	134 NTU	354 uS														

Sampled by: <i>Don S. Lyons</i>	Relinquished by: <i>Don S. Lyons</i>	Date: 5/30/18	Time: 1700
Received by:	Relinquished by:	Date:	Time:
Received by:	Relinquished by:	Date:	Time:
Received for Laboratory by: <i>Don S. Lyons</i>	Date: 5/30/18	Time: 1700	
Was Shipped Container intact when received?	Yes ☒ No ☐	Initials <i>DL</i>	Seals intact? Yes ☒ No ☐
Were all samples properly preserved?	Yes ☒ No ☐	Initials <i>DL</i>	Sample temp. 59°C
Comments: Other = See Above for Sample Preservatives, Field Measurements			

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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[illegible]

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