

Daily Analysis Runlog For Sequence/QC Batch ID # LB91218

Review By		Review On				
SubDirectory		LB91218		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP58645,WP58646,WP58647,WP58648,WP58649,WP58650,WP58651				
ICV Standard		WP58652				
CCV Standard		WP59226				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59227				
Chk Standard		WP58925,WP58508				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	10/09/17 10:05		OK
2	STD2	STD2	CAL2	10/09/17 10:35		OK
3	STD3	STD3	CAL3	10/09/17 11:05		OK
4	STD4	STD4	CAL4	10/09/17 11:35		OK
5	STD5	STD5	CAL5	10/09/17 12:05		OK
6	STD6	STD6	CAL6	10/09/17 12:35		OK
7	STD7	STD7	CAL7	10/09/17 13:05		OK
8	ICV1	ICV1	ICV	10/09/17 14:52		OK
9	ICB1	ICB1	ICB	10/09/17 15:22		OK
10	CCV1	CCV1	CCV	10/30/17 17:27		OK
11	CCB1	CCB1	CCB	10/30/17 17:56		OK
12	LB91218BLW	LB91218BLW	MB	10/30/17 18:25		OK
13	LB91218BSW	LB91218BSW	LCS	10/30/17 18:54		OK
14	I6234-04	TW-5-DEP	SAM	10/30/17 19:23		OK
15	I6228-01	EXCELL	SAM	10/30/17 19:52		OK
16	I6229-01	MAINCELL	SAM	10/30/17 20:21		OK
17	I6230-01	POOLWATER	SAM	10/30/17 20:50		OK
18	I6230-01DUP	POOLWATERDUP	DUP	10/30/17 21:18		OK
19	I6230-01MS	POOLWATERMS	MS	10/30/17 21:47		OK
20	CCV2	CCV2	CCV	10/30/17 22:16		OK
21	CCB2	CCB2	CCB	10/30/17 22:45		OK



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91218	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	EXCELL	SDG No.:	LB91218
Lab Sample ID:	I6228-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		10/30/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		10/30/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		10/30/2017	300.0
	Nitrate	0.34		1	0.027		0.13	mg/L		10/30/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		10/30/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		10/30/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		10/30/2017	300.0



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91218	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	MAINCELL	SDG No.:	LB91218
Lab Sample ID:	I6229-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		10/30/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		10/30/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		10/30/2017	300.0
	Nitrate	0.24		1	0.027		0.13	mg/L		10/30/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		10/30/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		10/30/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		10/30/2017	300.0



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91218	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB91218
Lab Sample ID:	I6230-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		10/30/2017	300.0
	Chloride	0.29		1	0.075		0.15	mg/L		10/30/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		10/30/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		10/30/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		10/30/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		10/30/2017	300.0
	Sulfate	1.9		1	0.13		0.75	mg/L		10/30/2017	300.0



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91218	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TW-5-DEP	SDG No.:	LB91218
Lab Sample ID:	I6234-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	4.1		1	0.066		0.5	mg/L		10/30/2017	300.0
	Chloride	435	OR	1	0.075		0.15	mg/L		10/30/2017	300.0
	Fluoride	0.42		1	0.043		0.1	mg/L		10/30/2017	300.0
	Nitrate	0.21		1	0.027		0.13	mg/L		10/30/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		10/30/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		10/30/2017	300.0
	Sulfate	15		1	0.13		0.75	mg/L		10/30/2017	300.0



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91218	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TW-5-DEP	SDG No.:	LB91218
Lab Sample ID:	I6234-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91218

SDG No.: LB91218

Contract: _____ Lab Code: CHEM

Case No.: LB91218

SAS No.: LB91218

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.9	10	99	0	90 - 110		10/09/2017	14:52	LB91218
	Chloride	2.9	3	96.7	0	90 - 110		10/09/2017	14:52	LB91218
	Fluoride	2	2	100	0	90 - 110		10/09/2017	14:52	LB91218
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		10/09/2017	14:52	LB91218
	Nitrite	2.9	3	96.7	0	90 - 110		10/09/2017	14:52	LB91218
	Nitrate	2.4	2.5	96	0	90 - 110		10/09/2017	14:52	LB91218
	Sulfate	14.8	15	98.7	0	90 - 110		10/09/2017	14:52	LB91218



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91218

SDG No.: LB91218

Contract: _____ Lab Code: CHEM

Case No.: LB91218

SAS No.: LB91218

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.7	10	97	0	90 - 110		10/30/2017	17:27	LB91218
	Chloride	2.8	3	93.3	0	90 - 110		10/30/2017	17:27	LB91218
	Fluoride	2.1	2	105	0	90 - 110		10/30/2017	17:27	LB91218
	Phosphorus, Ortho	4.9	5	98	0	90 - 110		10/30/2017	17:27	LB91218
	Nitrite	2.8	3	93.3	0	90 - 110		10/30/2017	17:27	LB91218
	Nitrate	2.3	2.5	92	0	90 - 110		10/30/2017	17:27	LB91218
	Sulfate	13.8	15	92	0	90 - 110		10/30/2017	17:27	LB91218
CCV2	Bromide	9.7	10	97	0	90 - 110		10/30/2017	22:16	LB91218
	Chloride	2.9	3	96.7	0	90 - 110		10/30/2017	22:16	LB91218
	Fluoride	2.1	2	105	0	90 - 110		10/30/2017	22:16	LB91218
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		10/30/2017	22:16	LB91218
	Nitrite	2.8	3	93.3	0	90 - 110		10/30/2017	22:16	LB91218
	Nitrate	2.4	2.5	96	0	90 - 110		10/30/2017	22:16	LB91218
	Sulfate	13.7	15	91.3	0	90 - 110		10/30/2017	22:16	LB91218

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		10/09/2017	15:22	LB91218
	Chloride	0.075	+/-0.15	U		0.15		10/09/2017	15:22	LB91218
	Fluoride	0.043	+/-0.1	U		0.1		10/09/2017	15:22	LB91218
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/09/2017	15:22	LB91218
	Nitrite	0.022	+/-0.15	U		0.15		10/09/2017	15:22	LB91218
	Nitrate	0.027	+/-0.13	U		0.13		10/09/2017	15:22	LB91218
	Sulfate	0.13	+/-0.75	U		0.75		10/09/2017	15:22	LB91218

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		10/30/2017	17:56	LB91218
	Chloride	0.075	+/-0.15	U		0.15		10/30/2017	17:56	LB91218
	Fluoride	0.043	+/-0.1	U		0.1		10/30/2017	17:56	LB91218
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/30/2017	17:56	LB91218
	Nitrite	0.022	+/-0.15	U		0.15		10/30/2017	17:56	LB91218
	Nitrate	0.027	+/-0.13	U		0.13		10/30/2017	17:56	LB91218
	Sulfate	0.13	+/-0.75	U		0.75		10/30/2017	17:56	LB91218
CCB2	Bromide	0.066	+/-0.5	U		0.5		10/30/2017	22:45	LB91218
	Chloride	0.075	+/-0.15	U		0.15		10/30/2017	22:45	LB91218
	Fluoride	0.043	+/-0.1	U		0.1		10/30/2017	22:45	LB91218
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/30/2017	22:45	LB91218
	Nitrite	0.022	+/-0.15	U		0.15		10/30/2017	22:45	LB91218
	Nitrate	0.027	+/-0.13	U		0.13		10/30/2017	22:45	LB91218
	Sulfate	0.13	+/-0.75	U		0.75		10/30/2017	22:45	LB91218



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB91218

SDG No.:

LB91218

Contract:

Lab Code:

CHEM

Case No.:

LB91218

SAS No.:

LB91218

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB91218

SDG No.: LB91218

Instrument: IC-1

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB91218BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		10/30/2017	18:25	LB91218
	Chloride	0.075	<0.15	U		0.15		10/30/2017	18:25	LB91218
	Fluoride	0.043	<0.1	U		0.1		10/30/2017	18:25	LB91218
	Phosphorus, Ortho	0.01	<0.25	U		0.25		10/30/2017	18:25	LB91218
	Nitrite	0.022	<0.15	U		0.15		10/30/2017	18:25	LB91218
	Nitrate	0.027	<0.13	U		0.13		10/30/2017	18:25	LB91218
	Sulfate	0.13	<0.75	U		0.75		10/30/2017	18:25	LB91218



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MATRIX SPIKE SUMMARY

client: LB91218 level: low sdg no.: LB91218
contract: _____ lab code: CHEM case no.: LB91218 sas no.: LB91218
matrix: WATER sample id: I6230-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I6230-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	10.3		0.066	U	10	103		
Chloride	mg/L	80 - 120	3.5		0.29		3	107		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	5.6		0.01	U	5	112		
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	16		1.9		15	94		

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DUPLICATE SAMPLE SUMMARY

Client: LB91218 **Level:** LOW **SDG No.:** LB91218
Contract: **Lab Code:** CHEM **Case No.:** LB91218 **SAS No.:** LB91218
Matrix: WATER **Sample ID:** I6230-01 **Client ID:** POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I6230-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.066	U	0	U			
Chloride	mg/L	20	0.29		0.3		3		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	1.9		2		5		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91218

SDG No.: LB91218

Contract:

Lab Code: CHEM

Case No.: LB91218

SAS No.: LB91218

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91218BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	13.7		91.3	90 - 110	
