

Daily Analysis Runlog For Sequence/QC Batch ID # LB92202

Review By		Review On				
SubDirectory		LB92202		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60360				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60361				
Chk Standard		WP60017,WP60019				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	12/08/17 10:06		OK
2	STD2	STD2	CAL2	12/08/17 10:49		OK
3	STD3	STD3	CAL3	12/08/17 11:20		OK
4	STD4	STD4	CAL4	12/08/17 11:51		OK
5	STD5	STD5	CAL5	12/08/17 12:22		OK
6	STD6	STD6	CAL6	12/08/17 12:53		OK
7	STD7	STD7	CAL7	12/08/17 13:23		OK
8	ICV1	ICV1	ICV	12/08/17 13:54		OK
9	ICB1	ICB1	ICB	12/08/17 14:47		OK
10	CCV1	CCV1	CCV	12/15/17 10:45		OK
11	CCB1	CCB1	CCB	12/15/17 11:16		OK
12	LB92202BLW	LB92202BLW	MB	12/15/17 11:47		OK
13	LB92202BSW	LB92202BSW	LCS	12/15/17 12:18		OK
14	I6945-01	MINI-CELL	SAM	12/15/17 13:26		OK
15	I6947-01	JS-SYSTEM	SAM	12/15/17 13:57		OK
16	I6945-01DUP	MINI-CELLDUP	DUP	12/15/17 14:27		OK
17	I6945-01MS	MINI-CELLMS	MS	12/15/17 14:58		OK
18	CCV2	CCV2	CCV	12/15/17 15:29		OK
19	CCB2	CCB2	CCB	12/15/17 16:00		OK



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92202	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB92202
Lab Sample ID:	I6945-01	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		12/15/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		12/15/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/15/2017	300.0
	Nitrate	0.33		1	0.027		0.13	mg/L		12/15/2017	300.0
	Nitrite	0.17		1	0.022		0.15	mg/L		12/15/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/15/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		12/15/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92202	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB92202
Lab Sample ID:	I6947-01	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		12/15/2017	300.0
	Chloride	0.41		1	0.075		0.15	mg/L		12/15/2017	300.0
	Fluoride	0.16		1	0.043		0.1	mg/L		12/15/2017	300.0
	Nitrate	0.52		1	0.027		0.13	mg/L		12/15/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/15/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/15/2017	300.0
	Sulfate	3.2		1	0.13		0.75	mg/L		12/15/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92202	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB92202
Lab Sample ID:	I6947-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92202

SDG No.: LB92202

Contract: _____ Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

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	9.6	10	96	0	90 - 110		12/08/2017	13:54	LB92202
	Chloride	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92202
	Fluoride	1.8	2	90	0	90 - 110		12/08/2017	13:54	LB92202
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		12/08/2017	13:54	LB92202
	Nitrite	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92202
	Nitrate	2.4	2.5	96	0	90 - 110		12/08/2017	13:54	LB92202
	Sulfate	14.1	15	94	0	90 - 110		12/08/2017	13:54	LB92202



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92202

SDG No.: LB92202

Contract: _____ Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

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	10	10	100	0	90 - 110		12/15/2017	10:45	LB92202
	Chloride	3	3	100	0	90 - 110		12/15/2017	10:45	LB92202
	Fluoride	2.1	2	105	0	90 - 110		12/15/2017	10:45	LB92202
	Phosphorus, Ortho	5.7	5	114	0	90 - 110		12/15/2017	10:45	LB92202
	Nitrite	3	3	100	0	90 - 110		12/15/2017	10:45	LB92202
	Nitrate	2.4	2.5	96	0	90 - 110		12/15/2017	10:45	LB92202
	Sulfate	14.3	15	95.3	0	90 - 110		12/15/2017	10:45	LB92202
CCV2	Bromide	9.8	10	98	0	90 - 110		12/15/2017	15:29	LB92202
	Chloride	2.9	3	96.7	0	90 - 110		12/15/2017	15:29	LB92202
	Fluoride	2	2	100	0	90 - 110		12/15/2017	15:29	LB92202
	Phosphorus, Ortho	6.1	5	122	0	90 - 110		12/15/2017	15:29	LB92202
	Nitrite	2.9	3	96.7	0	90 - 110		12/15/2017	15:29	LB92202
	Nitrate	2.4	2.5	96	0	90 - 110		12/15/2017	15:29	LB92202
	Sulfate	14.4	15	96	0	90 - 110		12/15/2017	15:29	LB92202



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92202

SDG No.: LB92202

Contract: Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

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		12/08/2017	14:47	LB92202
	Chloride	0.075	+/-0.15	U		0.15		12/08/2017	14:47	LB92202
	Fluoride	0.043	+/-0.1	U		0.1		12/08/2017	14:47	LB92202
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/08/2017	14:47	LB92202
	Nitrite	0.022	+/-0.15	U		0.15		12/08/2017	14:47	LB92202
	Nitrate	0.027	+/-0.13	U		0.13		12/08/2017	14:47	LB92202
	Sulfate	0.13	+/-0.75	U		0.75		12/08/2017	14:47	LB92202



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92202

SDG No.: LB92202

Contract:

Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

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		12/15/2017	11:16	LB92202
	Chloride	0.075	+/-0.15	U		0.15		12/15/2017	11:16	LB92202
	Fluoride	0.043	+/-0.1	U		0.1		12/15/2017	11:16	LB92202
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/15/2017	11:16	LB92202
	Nitrite	0.022	+/-0.15	U		0.15		12/15/2017	11:16	LB92202
	Nitrate	0.027	+/-0.13	U		0.13		12/15/2017	11:16	LB92202
	Sulfate	0.13	+/-0.75	U		0.75		12/15/2017	11:16	LB92202
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/15/2017	16:00	LB92202
	Chloride	0.075	+/-0.15	U		0.15		12/15/2017	16:00	LB92202
	Fluoride	0.043	+/-0.1	U		0.1		12/15/2017	16:00	LB92202
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/15/2017	16:00	LB92202
	Nitrite	0.022	+/-0.15	U		0.15		12/15/2017	16:00	LB92202
	Nitrate	0.027	+/-0.13	U		0.13		12/15/2017	16:00	LB92202
	Sulfate	0.13	+/-0.75	U		0.75		12/15/2017	16:00	LB92202



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92202

SDG No.: LB92202

Contract: Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

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

Client: LB92202

SDG No.: LB92202

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
LB92202BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/15/2017	11:47	LB92202
	Chloride	0.075	<0.15	U		0.15		12/15/2017	11:47	LB92202
	Fluoride	0.043	<0.1	U		0.1		12/15/2017	11:47	LB92202
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/15/2017	11:47	LB92202
	Nitrite	0.022	<0.15	U		0.15		12/15/2017	11:47	LB92202
	Nitrate	0.027	<0.13	U		0.13		12/15/2017	11:47	LB92202
	Sulfate	0.13	<0.75	U		0.75		12/15/2017	11:47	LB92202



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MATRIX SPIKE SUMMARY

client: LB92202 level: low sdg no.: LB92202
contract: lab code: CHEM case no.: LB92202 sas no.: LB92202
matrix: WATER sample id: I6945-01 client id: MINI-CELLMS
Percent Solids for Sample: 0 Spiked ID: I6945-01MS 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	9.8		0.066	U	10	98		
Chloride	mg/L	80 - 120	3		0.075	U	3	100		
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95		
Phosphorus, Ortho	mg/L	80 - 120	5.8		0.01	U	5	116		
Nitrite	mg/L	80 - 120	3		0.17		3	94		
Nitrate	mg/L	80 - 120	2.7		0.33		2.5	95		
Sulfate	mg/L	80 - 120	14.6		0.13	U	15	97.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB92202 **Level:** LOW **SDG No.:** LB92202
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92202 **SAS No.:** LB92202
Matrix: WATER **Sample ID:** I6945-01 **Client ID:** MINI-CELLDUP
Percent Solids for Sample: 0 **Duplicate ID** I6945-01DUP **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	0.075	U	0	U			
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.17		0.17		0		
Nitrate	mg/L	20	0.33		0.34		3		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92202

SDG No.: LB92202

Contract: _____

Lab Code: CHEM

Case No.: LB92202

SAS No.: LB92202

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92202BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	6		120	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.4		96	90 - 110	
