

Daily Analysis Runlog For Sequence/QC Batch ID # LB94435

Review By		Review On				
SubDirectory		LB94435		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	WP60967,WP60968,WP60969,WP60970,WP60971,WP60973,WP60980
ICV Standard	WP60983
CCV Standard	WP61040
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP61041
Chk Standard	WP60666,WP60668,WP61073

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/15/18 10:28		OK
2	STD2	STD2	CAL2	01/15/18 10:58		OK
3	STD3	STD3	CAL3	01/15/18 11:33		OK
4	STD4	STD4	CAL4	01/15/18 12:04		OK
5	STD5	STD5	CAL5	01/15/18 12:35		OK
6	STD6	STD6	CAL6	01/15/18 13:06		OK
7	STD7	STD7	CAL7	01/15/18 13:37		OK
8	ICV1	ICV1	ICV	01/15/18 15:11		OK
9	ICB1	ICB1	ICB	01/15/18 15:46		OK
10	CCV1	CCV1	CCV	01/18/18 10:16		OK
11	CCB1	CCB1	CCB	01/18/18 11:07		OK
12	LB94435BLW	LB94435BLW	MB	01/18/18 11:38		OK
13	LB94435BSW	LB94435BSW	LCS	01/18/18 12:54		OK
14	J1161-07	LOD-MDL-WATER-0	SAM	01/18/18 13:26		OK
15	J1161-08	LOQ-WATER-02-QT	LOQ	01/18/18 13:57		OK
16	J1161-09	MDL-WATER-03-QT	SAM	01/18/18 14:28		OK
17	CCV2	CCV2	CCV	01/18/18 14:59		OK
18	CCB2	CCB2	CCB	01/18/18 15:30		OK



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94435	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT1-2018	SDG No.:	LB94435
Lab Sample ID:	J1161-07	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	0.38	J	1	0.066		0.5	mg/L		01/18/2018	9056
	Chloride	0.11	J	1	0.075		0.15	mg/L		01/18/2018	9056
	Fluoride	0.051	J	1	0.043		0.1	mg/L		01/18/2018	9056
	Nitrate	0.1	J	1	0.027		0.11	mg/L		01/18/2018	9056
	Nitrite	0.13	J	1	0.022		0.15	mg/L		01/18/2018	9056
	Phosphorus, Ortho	-0.41	U	1	0.01		0.24	mg/L		01/18/2018	9056
	Sulfate	0.77		1	0.13		0.75	mg/L		01/18/2018	9056



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94435	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB94435
Lab Sample ID:	J1161-09	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	0.42	J	1	0.066		0.5	mg/L		01/18/2018	9056
	Chloride	0.12	J	1	0.075		0.15	mg/L		01/18/2018	9056
	Fluoride	0.06	J	1	0.043		0.1	mg/L		01/18/2018	9056
	Nitrate	0.11		1	0.027		0.11	mg/L		01/18/2018	9056
	Nitrite	0.14	J	1	0.022		0.15	mg/L		01/18/2018	9056
	Phosphorus, Ortho	-0.3	U	1	0.01		0.24	mg/L		01/18/2018	9056
	Sulfate	0.83		1	0.13		0.75	mg/L		01/18/2018	9056



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94435	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB94435
Lab Sample ID:	J1161-09	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: LB94435

SDG No.: LB94435

Contract: _____ Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.4	10	94		90 - 110		01/15/2018	15:11	LB94435
	Chloride	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB94435
	Fluoride	1.9	2	95		90 - 110		01/15/2018	15:11	LB94435
	Phosphorus, Ortho	5	5	100		90 - 110		01/15/2018	15:11	LB94435
	Nitrite	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB94435
	Nitrate	2.4	2.5	96		90 - 110		01/15/2018	15:11	LB94435
	Sulfate	14	15	93.3		90 - 110		01/15/2018	15:11	LB94435



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94435

SDG No.: LB94435

Contract: _____ Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.3	10	93		90 - 110		01/18/2018	10:16	LB94435
	Chloride	2.8	3	93.3		90 - 110		01/18/2018	10:16	LB94435
	Fluoride	1.9	2	95		90 - 110		01/18/2018	10:16	LB94435
	Phosphorus, Ortho	5.1	5	102		90 - 110		01/18/2018	10:16	LB94435
	Nitrite	2.8	3	93.3		90 - 110		01/18/2018	10:16	LB94435
	Nitrate	2.3	2.5	92		90 - 110		01/18/2018	10:16	LB94435
	Sulfate	13.9	15	92.7		90 - 110		01/18/2018	10:16	LB94435
CCV2	Bromide	10.1	10	101		90 - 110		01/18/2018	14:59	LB94435
	Chloride	2.8	3	93.3		90 - 110		01/18/2018	14:59	LB94435
	Fluoride	1.9	2	95		90 - 110		01/18/2018	14:59	LB94435
	Phosphorus, Ortho	5.4	5	108		90 - 110		01/18/2018	14:59	LB94435
	Nitrite	2.8	3	93.3		90 - 110		01/18/2018	14:59	LB94435
	Nitrate	2.4	2.5	96		90 - 110		01/18/2018	14:59	LB94435
	Sulfate	13.9	15	92.7		90 - 110		01/18/2018	14:59	LB94435



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94435

SDG No.: LB94435

Contract: Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

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		01/15/2018	15:46	LB94435
	Chloride	0.075	+/-0.15	U		0.15		01/15/2018	15:46	LB94435
	Fluoride	0.043	+/-0.1	U		0.1		01/15/2018	15:46	LB94435
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		01/15/2018	15:46	LB94435
	Nitrite	0.022	+/-0.15	U		0.15		01/15/2018	15:46	LB94435
	Nitrate	0.027	+/-0.11	U		0.11		01/15/2018	15:46	LB94435
	Sulfate	0.13	+/-0.75	U		0.75		01/15/2018	15:46	LB94435



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94435

SDG No.: LB94435

Contract:

Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

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		01/18/2018	11:07	LB94435
	Chloride	0.075	+/-0.15	U		0.15		01/18/2018	11:07	LB94435
	Fluoride	0.043	+/-0.1	U		0.1		01/18/2018	11:07	LB94435
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		01/18/2018	11:07	LB94435
	Nitrite	0.022	+/-0.15	U		0.15		01/18/2018	11:07	LB94435
	Nitrate	0.027	+/-0.11	U		0.11		01/18/2018	11:07	LB94435
	Sulfate	0.13	+/-0.75	U		0.75		01/18/2018	11:07	LB94435
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/18/2018	15:30	LB94435
	Chloride	0.075	+/-0.15	U		0.15		01/18/2018	15:30	LB94435
	Fluoride	0.043	+/-0.1	U		0.1		01/18/2018	15:30	LB94435
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		01/18/2018	15:30	LB94435
	Nitrite	0.022	+/-0.15	U		0.15		01/18/2018	15:30	LB94435
	Nitrate	0.027	+/-0.11	U		0.11		01/18/2018	15:30	LB94435
	Sulfate	0.13	+/-0.75	U		0.75		01/18/2018	15:30	LB94435



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94435

SDG No.: LB94435

Contract: Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

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: LB94435

SDG No.: LB94435

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB94435BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/18/2018	11:38	LB94435
	Chloride	0.075	<0.15	U		0.15		01/18/2018	11:38	LB94435
	Fluoride	0.043	<0.1	U		0.1		01/18/2018	11:38	LB94435
	Phosphorus, Ortho	0.01	<0.24	U		0.24		01/18/2018	11:38	LB94435
	Nitrite	0.022	<0.15	U		0.15		01/18/2018	11:38	LB94435
	Nitrate	0.027	<0.11	U		0.11		01/18/2018	11:38	LB94435
	Sulfate	0.13	<0.75	U		0.75		01/18/2018	11:38	LB94435



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94435

SDG No.: LB94435

Contract:

Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J1161-08							
Bromide	mg/L	1	1.2		120	50 - 150	
Chloride	mg/L	0.3	0.36		120	50 - 150	
Fluoride	mg/L	0.2	0.22		110	50 - 150	
Phosphorus, Ortho	mg/L	0.48	0.59		122.9	50 - 150	
Nitrite	mg/L	0.3	0.36		120	50 - 150	
Nitrate	mg/L	0.23	0.3		130.4	50 - 150	
Sulfate	mg/L	1.5	1.9		126.7	50 - 150	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94435

SDG No.: LB94435

Contract:

Lab Code: CHEM

Case No.: LB94435

SAS No.: LB94435

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94435BSW							
Bromide	mg/L	10	9.2		92	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	4.7		94	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	13.7		91.3	90 - 110	
