

Daily Analysis Runlog For Sequence/QC Batch ID # LB94454

Review By

SubDirectory

Review On

Test : Anions

LB94454

STD. NAME		STD REF.#				
ICAL Standard		wp62978,wp62979,wp62980,wp62981,wp62982,wp62983,wp62984				
ICV Standard		wp62985				
CCV Standard		wp62714				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp62715				
Chk Standard		WP62458,WP62459,wp62716				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/12/18 14:48		OK
2	STD2	STD2	CAL2	03/12/18 15:19		OK
3	STD3	STD3	CAL3	03/12/18 15:50		OK
4	STD4	STD4	CAL4	03/12/18 16:21		OK
5	STD5	STD5	CAL5	03/12/18 16:52		OK
6	STD6	STD6	CAL6	03/12/18 17:22		OK
7	STD7	STD7	CAL7	03/12/18 17:53		OK
8	ICV1	ICV1	ICV	03/12/18 19:26		OK
9	ICB1	ICB1	ICB	03/12/18 19:57		OK
10	CCV1	CCV1	CCV	03/14/18 08:51		OK
11	CCB1	CCB1	CCB	03/14/18 09:22		OK
12	LB94454BLW	LB94454BLW	MB	03/14/18 09:52		OK
13	LB94454BSW	LB94454BSW	LCS	03/14/18 10:23		OK
14	J1161-07	LOD-MDL-WATER-0	SAM	03/14/18 19:01		OK
15	J1161-08	LOQ-WATER-02-QT	LOQ	03/14/18 19:32		OK
16	J1161-09	MDL-WATER-03-QT	SAM	03/14/18 20:03		OK
17	CCV2	CCV2	CCV	03/14/18 20:34		OK
18	CCB2	CCB2	CCB	03/14/18 21:05		OK



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94454	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT1-2018	SDG No.:	LB94454
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	0.36	J	1	0.066		0.5	mg/L		03/14/2018	300.0
	Chloride	0.11	J	1	0.075		0.15	mg/L		03/14/2018	300.0
	Fluoride	0.063	J	1	0.043		0.1	mg/L		03/14/2018	300.0
	Nitrate	0.093	J	1	0.027		0.13	mg/L		03/14/2018	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		03/14/2018	300.0
	Phosphorus, Ortho	-0.077	U	1	0.01		0.25	mg/L		03/14/2018	300.0
	Sulfate	0.6	J	1	0.13		0.75	mg/L		03/14/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94454	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB94454
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	0.33	J	1	0.066		0.5	mg/L		03/14/2018	300.0
	Chloride	0.1	J	1	0.075		0.15	mg/L		03/14/2018	300.0
	Fluoride	0.062	J	1	0.043		0.1	mg/L		03/14/2018	300.0
	Nitrate	0.083	J	1	0.027		0.13	mg/L		03/14/2018	300.0
	Nitrite	0.13	J	1	0.022		0.15	mg/L		03/14/2018	300.0
	Phosphorus, Ortho	-0.12	U	1	0.01		0.25	mg/L		03/14/2018	300.0
	Sulfate	0.59	J	1	0.13		0.75	mg/L		03/14/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94454	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB94454
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: LB94454

SDG No.: LB94454

Contract: _____ Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

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	9.6	10	96		90 - 110		03/12/2018	19:26	LB94454
	Chloride	2.9	3	96.7		90 - 110		03/12/2018	19:26	LB94454
	Fluoride	1.9	2	95		90 - 110		03/12/2018	19:26	LB94454
	Phosphorus, Ortho	4.7	5	94		90 - 110		03/12/2018	19:26	LB94454
	Nitrite	2.8	3	93.3		90 - 110		03/12/2018	19:26	LB94454
	Nitrate	2.4	2.5	96		90 - 110		03/12/2018	19:26	LB94454
	Sulfate	14.2	15	94.7		90 - 110		03/12/2018	19:26	LB94454



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94454

SDG No.: LB94454

Contract: _____ Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

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	9.9	10	99		90 - 110		03/14/2018	08:51	LB94454
	Chloride	2.9	3	96.7		90 - 110		03/14/2018	08:51	LB94454
	Fluoride	1.9	2	95		90 - 110		03/14/2018	08:51	LB94454
	Phosphorus, Ortho	4.4	5	88	*	90 - 110		03/14/2018	08:51	LB94454
	Nitrite	2.9	3	96.7		90 - 110		03/14/2018	08:51	LB94454
	Nitrate	2.5	2.5	100		90 - 110		03/14/2018	08:51	LB94454
	Sulfate	14.4	15	96		90 - 110		03/14/2018	08:51	LB94454
CCV2	Bromide	10.5	10	105		90 - 110		03/14/2018	20:34	LB94454
	Chloride	3.2	3	106.7		90 - 110		03/14/2018	20:34	LB94454
	Fluoride	2.1	2	105		90 - 110		03/14/2018	20:34	LB94454
	Phosphorus, Ortho	5	5	100		90 - 110		03/14/2018	20:34	LB94454
	Nitrite	3.1	3	103.3		90 - 110		03/14/2018	20:34	LB94454
	Nitrate	2.6	2.5	104		90 - 110		03/14/2018	20:34	LB94454
	Sulfate	15.3	15	102		90 - 110		03/14/2018	20:34	LB94454



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94454

SDG No.: LB94454

Contract: Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

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		03/12/2018	19:57	LB94454
	Chloride	0.075	+/-0.15	U		0.15		03/12/2018	19:57	LB94454
	Fluoride	0.043	+/-0.1	U		0.1		03/12/2018	19:57	LB94454
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/12/2018	19:57	LB94454
	Nitrite	0.022	+/-0.15	U		0.15		03/12/2018	19:57	LB94454
	Nitrate	0.027	+/-0.13	U		0.13		03/12/2018	19:57	LB94454
	Sulfate	0.13	+/-0.75	U		0.75		03/12/2018	19:57	LB94454



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94454

SDG No.: LB94454

Contract:

Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

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		03/14/2018	09:22	LB94454
	Chloride	0.075	+/-0.15	U		0.15		03/14/2018	09:22	LB94454
	Fluoride	0.043	+/-0.1	U		0.1		03/14/2018	09:22	LB94454
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/14/2018	09:22	LB94454
	Nitrite	0.022	+/-0.15	U		0.15		03/14/2018	09:22	LB94454
	Nitrate	0.027	+/-0.13	U		0.13		03/14/2018	09:22	LB94454
	Sulfate	0.13	+/-0.75	U		0.75		03/14/2018	09:22	LB94454
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/14/2018	21:05	LB94454
	Chloride	0.075	+/-0.15	U		0.15		03/14/2018	21:05	LB94454
	Fluoride	0.043	+/-0.1	U		0.1		03/14/2018	21:05	LB94454
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/14/2018	21:05	LB94454
	Nitrite	0.022	+/-0.15	U		0.15		03/14/2018	21:05	LB94454
	Nitrate	0.027	+/-0.13	U		0.13		03/14/2018	21:05	LB94454
	Sulfate	0.13	+/-0.75	U		0.75		03/14/2018	21:05	LB94454



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB94454	SDG No.:	LB94454				
Contract:		Lab Code:	CHEM	Case No.:	LB94454	SAS No.:	LB94454

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: LB94454

SDG No.: LB94454

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
LB94454BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		03/14/2018	09:52	LB94454
	Chloride	0.075	<0.15	U		0.15		03/14/2018	09:52	LB94454
	Fluoride	0.043	<0.1	U		0.1		03/14/2018	09:52	LB94454
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/14/2018	09:52	LB94454
	Nitrite	0.022	<0.15	U		0.15		03/14/2018	09:52	LB94454
	Nitrate	0.027	<0.13	U		0.13		03/14/2018	09:52	LB94454
	Sulfate	0.13	<0.75	U		0.75		03/14/2018	09:52	LB94454



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94454

SDG No.: LB94454

Contract:

Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J1161-08							
Bromide	mg/L	1	1.1		110	50 - 150	
Chloride	mg/L	0.3	0.33		110	50 - 150	
Fluoride	mg/L	0.2	0.21		105	50 - 150	
Phosphorus, Ortho	mg/L	0.5	0.5		100	50 - 150	
Nitrite	mg/L	0.3	0.34		113.3	50 - 150	
Nitrate	mg/L	0.25	0.28		112	50 - 150	
Sulfate	mg/L	1.5	1.8		120	50 - 150	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94454

SDG No.: LB94454

Contract:

Lab Code: CHEM

Case No.: LB94454

SAS No.: LB94454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94454BSW							
Bromide	mg/L	10	10.2		102	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	4.8		96	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.6		104	90 - 110	
Sulfate	mg/L	15	15.7		104.7	90 - 110	
