

Daily Analysis Runlog For Sequence/QC Batch ID # LB93292

Review By		Review On				
SubDirectory		LB93292		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP61149,WP61150,WP61151,WP61152,WP61153,WP61154,WP61155				
ICV Standard		WP61156				
CCV Standard		WP61942				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP61943				
Chk Standard		WP61543,WP61544				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/22/18 12:09		OK
2	STD2	STD2	CAL2	01/22/18 12:39		OK
3	STD3	STD3	CAL3	01/22/18 13:10		OK
4	STD4	STD4	CAL4	01/22/18 13:41		OK
5	STD5	STD5	CAL5	01/22/18 14:12		OK
6	STD6	STD6	CAL6	01/22/18 14:43		OK
7	STD7	STD7	CAL7	01/22/18 15:14		OK
8	ICV1	ICV1	ICV	01/23/18 10:45		OK
9	ICB1	ICB1	ICB	01/23/18 11:23		OK
10	CCV1	CCV1	CCV	02/14/18 10:19		OK
11	CCB1	CCB1	CCB	02/14/18 10:50		OK
12	LB93292BLW	LB93292BLW	MB	02/14/18 11:20		OK
13	LB93292BSW	LB93292BSW	LCS	02/14/18 11:51		OK
14	J1563-07	20180141	SAM	02/14/18 16:47		OK
15	J1563-07DUP	20180141DUP	DUP	02/14/18 17:18		OK
16	J1563-07MS	20180141MS	MS	02/14/18 17:49		OK
17	CCV2	CCV2	CCV	02/14/18 18:20		OK
18	CCB2	CCB2	CCB	02/14/18 18:51		OK



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93292	Date Received:	2/14/2018 12:00:00 AM
Client Sample ID:	20180141	SDG No.:	LB93292
Lab Sample ID:	J1563-07	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	U	1	0.066		0.5	mg/L		02/14/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		02/14/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		02/14/2018	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		02/14/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		02/14/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		02/14/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		02/14/2018	300.0



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93292	Date Received:	2/14/2018 12:00:00 AM
Client Sample ID:	20180141	SDG No.:	LB93292
Lab Sample ID:	J1563-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93292

SDG No.: LB93292

Contract: _____ Lab Code: CHEM

Case No.: LB93292

SAS No.: LB93292

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	9.3	10	93		90 - 110		01/23/2018	10:45	LB93292
	Chloride	2.8	3	93.3		90 - 110		01/23/2018	10:45	LB93292
	Fluoride	1.9	2	95		90 - 110		01/23/2018	10:45	LB93292
	Phosphorus, Ortho	4.6	5	92		90 - 110		01/23/2018	10:45	LB93292
	Nitrite	2.8	3	93.3		90 - 110		01/23/2018	10:45	LB93292
	Nitrate	2.3	2.5	92		90 - 110		01/23/2018	10:45	LB93292
	Sulfate	14	15	93.3		90 - 110		01/23/2018	10:45	LB93292



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93292

SDG No.: LB93292

Contract: _____ Lab Code: CHEM

Case No.: LB93292

SAS No.: LB93292

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	10	10	100		90 - 110		02/14/2018	10:19	LB93292
	Chloride	3	3	100		90 - 110		02/14/2018	10:19	LB93292
	Fluoride	2.1	2	105		90 - 110		02/14/2018	10:19	LB93292
	Phosphorus, Ortho	5.4	5	108		90 - 110		02/14/2018	10:19	LB93292
	Nitrite	2.9	3	96.7		90 - 110		02/14/2018	10:19	LB93292
	Nitrate	2.5	2.5	100		90 - 110		02/14/2018	10:19	LB93292
	Sulfate	14.5	15	96.7		90 - 110		02/14/2018	10:19	LB93292
CCV2	Bromide	9.9	10	99		90 - 110		02/14/2018	18:20	LB93292
	Chloride	3	3	100		90 - 110		02/14/2018	18:20	LB93292
	Fluoride	2.2	2	110		90 - 110		02/14/2018	18:20	LB93292
	Phosphorus, Ortho	5.5	5	110		90 - 110		02/14/2018	18:20	LB93292
	Nitrite	3	3	100		90 - 110		02/14/2018	18:20	LB93292
	Nitrate	2.4	2.5	96		90 - 110		02/14/2018	18:20	LB93292
	Sulfate	14.7	15	98		90 - 110		02/14/2018	18:20	LB93292

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		01/23/2018	11:23	LB93292
	Chloride	0.075	+/-0.15	U		0.15		01/23/2018	11:23	LB93292
	Fluoride	0.043	+/-0.1	U		0.1		01/23/2018	11:23	LB93292
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/23/2018	11:23	LB93292
	Nitrite	0.022	+/-0.15	U		0.15		01/23/2018	11:23	LB93292
	Nitrate	0.027	+/-0.13	U		0.13		01/23/2018	11:23	LB93292
	Sulfate	0.13	+/-0.75	U		0.75		01/23/2018	11:23	LB93292

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		02/14/2018	10:50	LB93292
	Chloride	0.075	+/-0.15	U		0.15		02/14/2018	10:50	LB93292
	Fluoride	0.043	+/-0.1	U		0.1		02/14/2018	10:50	LB93292
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/14/2018	10:50	LB93292
	Nitrite	0.022	+/-0.15	U		0.15		02/14/2018	10:50	LB93292
	Nitrate	0.027	+/-0.13	U		0.13		02/14/2018	10:50	LB93292
	Sulfate	0.13	+/-0.75	U		0.75		02/14/2018	10:50	LB93292
CCB2	Bromide	0.066	+/-0.5	U		0.5		02/14/2018	18:51	LB93292
	Chloride	0.075	+/-0.15	U		0.15		02/14/2018	18:51	LB93292
	Fluoride	0.043	+/-0.1	U		0.1		02/14/2018	18:51	LB93292
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/14/2018	18:51	LB93292
	Nitrite	0.022	+/-0.15	U		0.15		02/14/2018	18:51	LB93292
	Nitrate	0.027	+/-0.13	U		0.13		02/14/2018	18:51	LB93292
	Sulfate	0.13	+/-0.75	U		0.75		02/14/2018	18:51	LB93292



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93292

SDG No.: LB93292

Contract: Lab Code: CHEM

Case No.: LB93292

SAS No.: LB93292

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: LB93292

SDG No.: LB93292

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
LB93292BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		02/14/2018	11:20	LB93292
	Chloride	0.075	<0.15	U		0.15		02/14/2018	11:20	LB93292
	Fluoride	0.043	<0.1	U		0.1		02/14/2018	11:20	LB93292
	Phosphorus, Ortho	0.01	<0.25	U		0.25		02/14/2018	11:20	LB93292
	Nitrite	0.022	<0.15	U		0.15		02/14/2018	11:20	LB93292
	Nitrate	0.027	<0.13	U		0.13		02/14/2018	11:20	LB93292
	Sulfate	0.13	<0.75	U		0.75		02/14/2018	11:20	LB93292



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MATRIX SPIKE SUMMARY

client: LB93292 level: low sdg no.: LB93292
contract: lab code: CHEM case no.: LB93292 sas no.: LB93292
matrix: WATER sample id: J1563-07 client id: 20180141MS
Percent Solids for Sample: 0 Spiked ID: J1563-07MS 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	9.6		0.066	U	10	96		
Chloride	mg/L	80 - 120	2.9		0.075	U	3	96.7		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	5.3		0.01	U	5	106		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.4		0.027	U	2.5	96		
Sulfate	mg/L	80 - 120	15.3		0.13	U	15	102		

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DUPLICATE SAMPLE SUMMARY

Client: LB93292 **Level:** LOW **SDG No.:** LB93292
Contract: **Lab Code:** CHEM **Case No.:** LB93292 **SAS No.:** LB93292
Matrix: WATER **Sample ID:** J1563-07 **Client ID:** 20180141DUP
Percent Solids for Sample: 0 **Duplicate ID** J1563-07DUP **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	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93292

SDG No.: LB93292

Contract:

Lab Code: CHEM

Case No.: LB93292

SAS No.: LB93292

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93292BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.6		112	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.7		98	90 - 110	
