

Daily Analysis Runlog For Sequence/QC Batch ID # LB92611

Review By		Review On				
SubDirectory		LB92611		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60845,WP60846,WP60847,WP60848,WP60849,WP60850,WP60851				
ICV Standard		WP60852				
CCV Standard		WP60969				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60983				
Chk Standard		WP60667,WP60668				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/09/18 12:09		OK
2	STD2	STD2	CAL2	01/09/18 12:40		OK
3	STD3	STD3	CAL3	01/09/18 13:11		OK
4	STD4	STD4	CAL4	01/09/18 13:42		OK
5	STD5	STD5	CAL5	01/09/18 14:13		OK
6	STD6	STD6	CAL6	01/09/18 14:44		OK
7	STD7	STD7	CAL7	01/09/18 15:15		OK
8	ICV1	ICV1	ICV	01/09/18 16:48		OK
9	ICB1	ICB1	ICB	01/09/18 17:18		OK
10	CCV1	CCV1	CCV	01/15/18 10:31		OK
11	CCB1	CCB1	CCB	01/15/18 11:20		OK
12	LB92611BLW	LB92611BLW	MB	01/15/18 11:51		OK
13	LB92611BSW	LB92611BSW	LCS	01/15/18 12:58		OK
14	J1143-01	POOL-WATER	SAM	01/15/18 13:30		OK
15	J1143-01DUP	POOL-WATERDUP	DUP	01/15/18 14:01		OK
16	J1143-01MS	POOL-WATERMS	MS	01/15/18 14:32		OK
17	CCV2	CCV2	CCV	01/15/18 15:03		OK
18	CCB2	CCB2	CCB	01/15/18 15:33		OK



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92611	Date Received:	1/13/2018 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB92611
Lab Sample ID:	J1143-01	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		01/15/2018	300.0
	Chloride	1.1		1	0.075		0.15	mg/L		01/15/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/15/2018	300.0
	Nitrate	0.27		1	0.027		0.13	mg/L		01/15/2018	300.0
	Nitrite	0.19		1	0.022		0.15	mg/L		01/15/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/15/2018	300.0
	Sulfate	2.2		1	0.13		0.75	mg/L		01/15/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92611	Date Received:	1/13/2018 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB92611
Lab Sample ID:	J1143-01	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92611

SDG No.: LB92611

Contract: _____ Lab Code: CHEM

Case No.: LB92611

SAS No.: LB92611

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		01/09/2018	16:48	LB92611
	Chloride	3	3	100	0	90 - 110		01/09/2018	16:48	LB92611
	Fluoride	2	2	100	0	90 - 110		01/09/2018	16:48	LB92611
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		01/09/2018	16:48	LB92611
	Nitrite	3	3	100	0	90 - 110		01/09/2018	16:48	LB92611
	Nitrate	2.5	2.5	100	0	90 - 110		01/09/2018	16:48	LB92611
	Sulfate	14.7	15	98	0	90 - 110		01/09/2018	16:48	LB92611



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92611

SDG No.: LB92611

Contract: _____ Lab Code: CHEM

Case No.: LB92611

SAS No.: LB92611

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	10.2	10	102	0	90 - 110		01/15/2018	10:31	LB92611
	Chloride	3	3	100	0	90 - 110		01/15/2018	10:31	LB92611
	Fluoride	2	2	100	0	90 - 110		01/15/2018	10:31	LB92611
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		01/15/2018	10:31	LB92611
	Nitrite	2.9	3	96.7	0	90 - 110		01/15/2018	10:31	LB92611
	Nitrate	2.5	2.5	100	0	90 - 110		01/15/2018	10:31	LB92611
	Sulfate	14.7	15	98	0	90 - 110		01/15/2018	10:31	LB92611
CCV2	Bromide	9.4	10	94	0	90 - 110		01/15/2018	15:03	LB92611
	Chloride	2.8	3	93.3	0	90 - 110		01/15/2018	15:03	LB92611
	Fluoride	1.9	2	95	0	90 - 110		01/15/2018	15:03	LB92611
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		01/15/2018	15:03	LB92611
	Nitrite	2.8	3	93.3	0	90 - 110		01/15/2018	15:03	LB92611
	Nitrate	2.3	2.5	92	0	90 - 110		01/15/2018	15:03	LB92611
	Sulfate	14.1	15	94	0	90 - 110		01/15/2018	15:03	LB92611



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92611

SDG No.: LB92611

Contract: Lab Code: CHEM

Case No.: LB92611

SAS No.: LB92611

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		01/09/2018	17:18	LB92611
	Chloride	0.075	+/-0.15	U		0.15		01/09/2018	17:18	LB92611
	Fluoride	0.043	+/-0.1	U		0.1		01/09/2018	17:18	LB92611
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/09/2018	17:18	LB92611
	Nitrite	0.022	+/-0.15	U		0.15		01/09/2018	17:18	LB92611
	Nitrate	0.027	+/-0.13	U		0.13		01/09/2018	17:18	LB92611
	Sulfate	0.13	+/-0.75	U		0.75		01/09/2018	17:18	LB92611

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		01/15/2018	11:20	LB92611
	Chloride	0.075	+/-0.15	U		0.15		01/15/2018	11:20	LB92611
	Fluoride	0.043	+/-0.1	U		0.1		01/15/2018	11:20	LB92611
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/15/2018	11:20	LB92611
	Nitrite	0.022	+/-0.15	U		0.15		01/15/2018	11:20	LB92611
	Nitrate	0.027	+/-0.13	U		0.13		01/15/2018	11:20	LB92611
	Sulfate	0.13	+/-0.75	U		0.75		01/15/2018	11:20	LB92611
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/15/2018	15:33	LB92611
	Chloride	0.075	+/-0.15	U		0.15		01/15/2018	15:33	LB92611
	Fluoride	0.043	+/-0.1	U		0.1		01/15/2018	15:33	LB92611
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/15/2018	15:33	LB92611
	Nitrite	0.022	+/-0.15	U		0.15		01/15/2018	15:33	LB92611
	Nitrate	0.027	+/-0.13	U		0.13		01/15/2018	15:33	LB92611
	Sulfate	0.13	+/-0.75	U		0.75		01/15/2018	15:33	LB92611



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92611

SDG No.: LB92611

Contract: Lab Code: CHEM

Case No.: LB92611

SAS No.: LB92611

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: LB92611

SDG No.: LB92611

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
LB92611BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/15/2018	11:51	LB92611
	Chloride	0.075	<0.15	U		0.15		01/15/2018	11:51	LB92611
	Fluoride	0.043	<0.1	U		0.1		01/15/2018	11:51	LB92611
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/15/2018	11:51	LB92611
	Nitrite	0.022	<0.15	U		0.15		01/15/2018	11:51	LB92611
	Nitrate	0.027	<0.13	U		0.13		01/15/2018	11:51	LB92611
	Sulfate	0.13	<0.75	U		0.75		01/15/2018	11:51	LB92611



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MATRIX SPIKE SUMMARY

client: LB92611 level: low sdg no.: LB92611
contract: _____ lab code: CHEM case no.: LB92611 sas no.: LB92611
matrix: WATER sample id: J1143-01 client id: POOL-WATERMS
Percent Solids for Sample: 0 Spiked ID: J1143-01MS 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	9.3		0.066	U	10	93		
Chloride	mg/L	80 - 120	3.6		1.1		3	83		
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95		
Phosphorus, Ortho	mg/L	80 - 120	5.3		0.01	U	5	106		
Nitrite	mg/L	80 - 120	2.8		0.19		3	87		
Nitrate	mg/L	80 - 120	2.5		0.27		2.5	89		
Sulfate	mg/L	80 - 120	15.8		2.2		15	91		

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DUPLICATE SAMPLE SUMMARY

Client: LB92611 **Level:** LOW **SDG No.:** LB92611
Contract: **Lab Code:** CHEM **Case No.:** LB92611 **SAS No.:** LB92611
Matrix: WATER **Sample ID:** J1143-01 **Client ID:** POOL-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J1143-01DUP **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	1.1		1		10		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.19		0.19		0		
Nitrate	mg/L	20	0.27		0.27		0		
Sulfate	mg/L	20	2.2		2.2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92611

SDG No.: LB92611

Contract:

Lab Code: CHEM

Case No.: LB92611

SAS No.: LB92611

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92611BSW							
Bromide	mg/L	10	10		100	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.2		104	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.8		98.7	90 - 110	
