

Daily Analysis Runlog For Sequence/QC Batch ID # LB94904

Review By		Review On				
SubDirectory		LB94904		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		wp63845,wp63846,wp63847,wp63848,wp63849,wp63850,wp63851				
ICV Standard		wp63852				
CCV Standard		wp63941				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp63940				
Chk Standard		wp63267,wp63269				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	04/18/18 10:04		OK
2	STD2	STD2	CAL2	04/18/18 10:50		OK
3	STD3	STD3	CAL3	04/18/18 11:21		OK
4	STD4	STD4	CAL4	04/18/18 11:52		OK
5	STD5	STD5	CAL5	04/18/18 12:23		OK
6	STD6	STD6	CAL6	04/18/18 12:54		OK
7	STD7	STD7	CAL7	04/18/18 13:25		OK
8	ICV1	ICV1	ICV	04/18/18 17:59		OK
9	ICB1	ICB1	ICB	04/18/18 18:30		OK
10	CCV1	CCV1	CCV	04/25/18 08:33		OK
11	CCB1	CCB1	CCB	04/25/18 09:29		OK
12	LB94904BLW	LB94904BLW	MB	04/25/18 10:00		OK
13	LB94904BSW	LB94904BSW	LCS	04/25/18 10:31		OK
14	J2557-01	MAIN-CELL	SAM	04/25/18 14:01		OK
15	J2557-02	EX-CELL	SAM	04/25/18 14:32		OK
16	J2557-02DUP	EX-CELLDUP	DUP	04/25/18 15:03		OK
17	J2557-02MS	EX-CELLMS	MS	04/25/18 15:34		OK
18	CCV2	CCV2	CCV	04/25/18 16:05		OK
19	CCB2	CCB2	CCB	04/25/18 16:36		OK



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94904	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	MAIN-CELL	SDG No.:	LB94904
Lab Sample ID:	J2557-01	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		04/25/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/25/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/25/2018	300.0
	Nitrate	0.17		1	0.027		0.13	mg/L		04/25/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/25/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/25/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/25/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94904	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	EX-CELL	SDG No.:	LB94904
Lab Sample ID:	J2557-02	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		04/25/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/25/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/25/2018	300.0
	Nitrate	0.24		1	0.027		0.13	mg/L		04/25/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/25/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/25/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/25/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94904	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	EX-CELL	SDG No.:	LB94904
Lab Sample ID:	J2557-02	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: LB94904

SDG No.: LB94904

Contract: _____ Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

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	10.1	10	101		90 - 110		04/18/2018	17:59	lb94904
	Chloride	3	3	100		90 - 110		04/18/2018	17:59	lb94904
	Fluoride	1.9	2	95		90 - 110		04/18/2018	17:59	lb94904
	Phosphorus, Ortho	5.1	5	102		90 - 110		04/18/2018	17:59	lb94904
	Nitrite	3.1	3	103.3		90 - 110		04/18/2018	17:59	lb94904
	Nitrate	2.5	2.5	100		90 - 110		04/18/2018	17:59	lb94904
	Sulfate	15	15	100		90 - 110		04/18/2018	17:59	lb94904



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94904

SDG No.: LB94904

Contract: _____ Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

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	9.7	10	97		90 - 110		04/25/2018	08:33	lb94904
	Chloride	2.9	3	96.7		90 - 110		04/25/2018	08:33	lb94904
	Fluoride	2	2	100		90 - 110		04/25/2018	08:33	lb94904
	Phosphorus, Ortho	4.8	5	96		90 - 110		04/25/2018	08:33	lb94904
	Nitrite	3	3	100		90 - 110		04/25/2018	08:33	lb94904
	Nitrate	2.4	2.5	96		90 - 110		04/25/2018	08:33	lb94904
	Sulfate	14.7	15	98		90 - 110		04/25/2018	08:33	lb94904
CCV2	Bromide	9.9	10	99		90 - 110		04/25/2018	16:05	lb94904
	Chloride	3	3	100		90 - 110		04/25/2018	16:05	lb94904
	Fluoride	2	2	100		90 - 110		04/25/2018	16:05	lb94904
	Phosphorus, Ortho	5	5	100		90 - 110		04/25/2018	16:05	lb94904
	Nitrite	3	3	100		90 - 110		04/25/2018	16:05	lb94904
	Nitrate	2.5	2.5	100		90 - 110		04/25/2018	16:05	lb94904
	Sulfate	14.6	15	97.3		90 - 110		04/25/2018	16:05	lb94904



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94904

SDG No.: LB94904

Contract:

Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

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		04/18/2018	18:30	1b94904
	Chloride	0.075	+/-0.15	U		0.15		04/18/2018	18:30	1b94904
	Fluoride	0.043	+/-0.1	U		0.1		04/18/2018	18:30	1b94904
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/18/2018	18:30	1b94904
	Nitrite	0.022	+/-0.15	U		0.15		04/18/2018	18:30	1b94904
	Nitrate	0.027	+/-0.13	U		0.13		04/18/2018	18:30	1b94904
	Sulfate	0.13	+/-0.75	U		0.75		04/18/2018	18:30	1b94904



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94904

SDG No.: LB94904

Contract:

Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

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		04/25/2018	09:29	lb94904
	Chloride	0.075	+/-0.15	U		0.15		04/25/2018	09:29	lb94904
	Fluoride	0.043	+/-0.1	U		0.1		04/25/2018	09:29	lb94904
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/25/2018	09:29	lb94904
	Nitrite	0.022	+/-0.15	U		0.15		04/25/2018	09:29	lb94904
	Nitrate	0.027	+/-0.13	U		0.13		04/25/2018	09:29	lb94904
	Sulfate	0.13	+/-0.75	U		0.75		04/25/2018	09:29	lb94904
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/25/2018	16:36	lb94904
	Chloride	0.075	+/-0.15	U		0.15		04/25/2018	16:36	lb94904
	Fluoride	0.043	+/-0.1	U		0.1		04/25/2018	16:36	lb94904
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/25/2018	16:36	lb94904
	Nitrite	0.022	+/-0.15	U		0.15		04/25/2018	16:36	lb94904
	Nitrate	0.027	+/-0.13	U		0.13		04/25/2018	16:36	lb94904
	Sulfate	0.13	+/-0.75	U		0.75		04/25/2018	16:36	lb94904



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94904

SDG No.: LB94904

Contract: Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

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: LB94904

SDG No.: LB94904

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
LB94904BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/25/2018	10:00	lb94904
	Chloride	0.075	<0.15	U		0.15		04/25/2018	10:00	lb94904
	Fluoride	0.043	<0.1	U		0.1		04/25/2018	10:00	lb94904
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/25/2018	10:00	lb94904
	Nitrite	0.022	<0.15	U		0.15		04/25/2018	10:00	lb94904
	Nitrate	0.027	<0.13	U		0.13		04/25/2018	10:00	lb94904
	Sulfate	0.13	<0.75	U		0.75		04/25/2018	10:00	lb94904



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MATRIX SPIKE SUMMARY

client: LB94904 level: low sdg no.: LB94904
contract: _____ lab code: CHEM case no.: LB94904 sas no.: LB94904
matrix: WATER sample id: J2557-02 client id: EX-CELLMS
Percent Solids for Sample: 0 Spiked ID: J2557-02MS 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	9.7		0.066	U	10	97		
Chloride	mg/L	80 - 120	2.9		0.075	U	3	96.7		
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95		
Phosphorus, Ortho	mg/L	80 - 120	5.1		0.01	U	5	102		
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.5		0.24		2.5	90		
Sulfate	mg/L	80 - 120	15		0.13	U	15	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB94904 **Level:** LOW **SDG No.:** LB94904
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94904 **SAS No.:** LB94904
Matrix: WATER **Sample ID:** J2557-02 **Client ID:** EX-CELLDUP
Percent Solids for Sample: 0 **Duplicate ID** J2557-02DUP **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	0.24		0.24		0		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94904

SDG No.: LB94904

Contract:

Lab Code: CHEM

Case No.: LB94904

SAS No.: LB94904

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94904BSW							
Bromide	mg/L	10	9.8		98	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2.1		105	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	15.5		103.3	90 - 110	
