

Daily Analysis Runlog For Sequence/QC Batch ID # LB92430

Review By		Review On				
SubDirectory		LB92430		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60639				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60640				
Chk Standard		WP60017,WP60019				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	12/08/17 10:06		OK
2	STD2	STD2	CAL2	12/08/17 10:49		OK
3	STD3	STD3	CAL3	12/08/17 11:20		OK
4	STD4	STD4	CAL4	12/08/17 11:51		OK
5	STD5	STD5	CAL5	12/08/17 12:22		OK
6	STD6	STD6	CAL6	12/08/17 12:53		OK
7	STD7	STD7	CAL7	12/08/17 13:23		OK
8	ICV1	ICV1	ICV	12/08/17 13:54		OK
9	ICB1	ICB1	ICB	12/08/17 14:47		OK
10	CCV1	CCV1	CCV	12/28/17 10:10		OK
11	CCB1	CCB1	CCB	12/28/17 10:39		OK
12	LB92430BLW	LB92430BLW	MB	12/28/17 11:09		OK
13	LB92430BSW	LB92430BSW	LCS	12/28/17 11:39		OK
14	I7099-01	MW-1	SAM	12/28/17 16:03		OK
15	I7099-02	MW-2	SAM	12/28/17 16:33		OK
16	I7099-03	MW-3	SAM	12/28/17 17:03		OK
17	I7099-04	MW-4	SAM	12/28/17 17:33		OK
18	I7099-04DUP	MW-4DUP	DUP	12/28/17 18:03		OK
19	I7099-04MS	MW-4MS	MS	12/28/17 18:33		OK
20	CCV2	CCV2	CCV	12/28/17 19:03		OK
21	CCB2	CCB2	CCB	12/28/17 19:33		OK



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Report of Analysis

Client:		Date Collected:	12/27/2017 12:00:00 AM
Project:	LB92430	Date Received:	12/28/2017 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB92430
Lab Sample ID:	I7099-01	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	0.78		1	0.066		0.5	mg/L		12/28/2017	300.0
	Chloride	3440	OR	1	0.075		0.15	mg/L		12/28/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/28/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/28/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/28/2017	300.0
	Sulfate	14.1		1	0.13		0.75	mg/L		12/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/27/2017 12:00:00 AM
Project:	LB92430	Date Received:	12/28/2017 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB92430
Lab Sample ID:	I7099-02	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		12/28/2017	300.0
	Chloride	3610	OR	1	0.075		0.15	mg/L		12/28/2017	300.0
	Fluoride	0.25		1	0.043		0.1	mg/L		12/28/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/28/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/28/2017	300.0
	Sulfate	4.5		1	0.13		0.75	mg/L		12/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/27/2017 12:00:00 AM
Project:	LB92430	Date Received:	12/28/2017 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB92430
Lab Sample ID:	I7099-03	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		12/28/2017	300.0
	Chloride	2350	OR	1	0.075		0.15	mg/L		12/28/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/28/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/28/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/28/2017	300.0
	Sulfate	1.1		1	0.13		0.75	mg/L		12/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/27/2017 12:00:00 AM
Project:	LB92430	Date Received:	12/28/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB92430
Lab Sample ID:	I7099-04	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		12/28/2017	300.0
	Chloride	1680	OR	1	0.075		0.15	mg/L		12/28/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/28/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/28/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/28/2017	300.0
	Sulfate	1.3		1	0.13		0.75	mg/L		12/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/27/2017 12:00:00 AM
Project:	LB92430	Date Received:	12/28/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB92430
Lab Sample ID:	I7099-04	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: LB92430

SDG No.: LB92430

Contract: _____ Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

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	9.6	10	96	0	90 - 110		12/08/2017	13:54	LB92430
	Chloride	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92430
	Fluoride	1.8	2	90	0	90 - 110		12/08/2017	13:54	LB92430
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		12/08/2017	13:54	LB92430
	Nitrite	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92430
	Nitrate	2.4	2.5	96	0	90 - 110		12/08/2017	13:54	LB92430
	Sulfate	14.1	15	94	0	90 - 110		12/08/2017	13:54	LB92430



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92430

SDG No.: LB92430

Contract: _____ Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

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	9.4	10	94	0	90 - 110		12/28/2017	10:10	LB92430
	Chloride	2.9	3	96.7	0	90 - 110		12/28/2017	10:10	LB92430
	Fluoride	1.9	2	95	0	90 - 110		12/28/2017	10:10	LB92430
	Phosphorus, Ortho	5	5	100	0	90 - 110		12/28/2017	10:10	LB92430
	Nitrite	2.8	3	93.3	0	90 - 110		12/28/2017	10:10	LB92430
	Nitrate	2.3	2.5	92	0	90 - 110		12/28/2017	10:10	LB92430
	Sulfate	14.9	15	99.3	0	90 - 110		12/28/2017	10:10	LB92430
CCV2	Bromide	9.6	10	96	0	90 - 110		12/28/2017	19:03	LB92430
	Chloride	2.9	3	96.7	0	90 - 110		12/28/2017	19:03	LB92430
	Fluoride	1.8	2	90	0	90 - 110		12/28/2017	19:03	LB92430
	Phosphorus, Ortho	6.3	5	126	0	90 - 110		12/28/2017	19:03	LB92430
	Nitrite	2.9	3	96.7	0	90 - 110		12/28/2017	19:03	LB92430
	Nitrate	2.4	2.5	96	0	90 - 110		12/28/2017	19:03	LB92430
	Sulfate	15.2	15	101.3	0	90 - 110		12/28/2017	19:03	LB92430



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92430

SDG No.: LB92430

Contract:

Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

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		12/08/2017	14:47	LB92430
	Chloride	0.075	+/-0.15	U		0.15		12/08/2017	14:47	LB92430
	Fluoride	0.043	+/-0.1	U		0.1		12/08/2017	14:47	LB92430
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/08/2017	14:47	LB92430
	Nitrite	0.022	+/-0.15	U		0.15		12/08/2017	14:47	LB92430
	Nitrate	0.027	+/-0.13	U		0.13		12/08/2017	14:47	LB92430
	Sulfate	0.13	+/-0.75	U		0.75		12/08/2017	14:47	LB92430



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92430

SDG No.: LB92430

Contract:

Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

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		12/28/2017	10:39	LB92430
	Chloride	0.075	+/-0.15	U		0.15		12/28/2017	10:39	LB92430
	Fluoride	0.043	+/-0.1	U		0.1		12/28/2017	10:39	LB92430
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/28/2017	10:39	LB92430
	Nitrite	0.022	+/-0.15	U		0.15		12/28/2017	10:39	LB92430
	Nitrate	0.027	+/-0.13	U		0.13		12/28/2017	10:39	LB92430
	Sulfate	0.13	+/-0.75	U		0.75		12/28/2017	10:39	LB92430
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/28/2017	19:33	LB92430
	Chloride	0.075	+/-0.15	U		0.15		12/28/2017	19:33	LB92430
	Fluoride	0.043	+/-0.1	U		0.1		12/28/2017	19:33	LB92430
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/28/2017	19:33	LB92430
	Nitrite	0.022	+/-0.15	U		0.15		12/28/2017	19:33	LB92430
	Nitrate	0.027	+/-0.13	U		0.13		12/28/2017	19:33	LB92430
	Sulfate	0.13	+/-0.75	U		0.75		12/28/2017	19:33	LB92430



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92430

SDG No.: LB92430

Contract: Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB92430

SDG No.: LB92430

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
LB92430BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		12/28/2017	11:09	LB92430
	Chloride	0.075	<0.15	U		0.15		12/28/2017	11:09	LB92430
	Fluoride	0.043	<0.1	U		0.1		12/28/2017	11:09	LB92430
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/28/2017	11:09	LB92430
	Nitrite	0.022	<0.15	U		0.15		12/28/2017	11:09	LB92430
	Nitrate	0.027	<0.13	U		0.13		12/28/2017	11:09	LB92430
	Sulfate	0.13	<0.75	U		0.75		12/28/2017	11:09	LB92430



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92430 level: low sdg no.: LB92430
contract: lab code: CHEM case no.: LB92430 sas no.: LB92430
matrix: WATER sample id: I7099-04 client id: MW-4MS
Percent Solids for Sample: 0 Spiked ID: I7099-04MS 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	10.2		0.066	U	10	102		
Chloride	mg/L	80 - 120	1570	OR	1680	OR	3	-3667	*	
Fluoride	mg/L	80 - 120	2.9		0.043	U	2	145	*	
Phosphorus, Ortho	mg/L	80 - 120	0	U	0.01	U	5			
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	15.9		1.3		15	97		

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DUPLICATE SAMPLE SUMMARY

Client: LB92430 **Level:** LOW **SDG No.:** LB92430
Contract: **Lab Code:** CHEM **Case No.:** LB92430 **SAS No.:** LB92430
Matrix: WATER **Sample ID:** I7099-04 **Client ID:** MW-4DUP
Percent Solids for Sample: 0 **Duplicate ID** I7099-04DUP **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	1680	OR	1740	OR	4		
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	1.3		1.3		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92430

SDG No.: LB92430

Contract:

Lab Code: CHEM

Case No.: LB92430

SAS No.: LB92430

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92430BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.3		106	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
