

Daily Analysis Runlog For Sequence/QC Batch ID # LB88618

Review By		Review On				
SubDirectory		LB88618		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP55544,WP55545,WP55546,WP55547,WP55548,WP55549,WP55550				
ICV Standard		WP55551				
CCV Standard		WP56212				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56213				
Chk Standard		WP55553,WP55554				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	06/12/17 11:03		OK
2	STD2	STD2	CAL2	06/12/17 11:32		OK
3	STD3	STD3	CAL3	06/12/17 12:01		OK
4	STD4	STD4	CAL4	06/12/17 12:29		OK
5	STD5	STD5	CAL5	06/12/17 12:58		OK
6	STD6	STD6	CAL6	06/12/17 13:27		OK
7	STD7	STD7	CAL7	06/12/17 13:56		OK
8	ICV1	ICV1	ICV	06/12/17 16:02		OK
9	ICB1	ICB1	ICB	06/12/17 16:31		OK
10	CCV1	CCV1	CCV	07/07/17 12:22		OK
11	CCB1	CCB1	CCB	07/07/17 13:00		OK
12	LB88618BLW	LB88618BLW	MB	07/07/17 13:29		OK
13	LB88618BSW	LB88618BSW	LCS	07/07/17 13:58		OK
14	I4115-01	DSN001	SAM	07/07/17 14:34		OK
15	I4111-01	MINI-CELL	SAM	07/07/17 15:03		OK
16	I4112-01	POOLWATER	SAM	07/07/17 15:32		OK
17	I4112-01DUP	POOLWATERDUP	DUP	07/07/17 16:01		OK
18	I4112-01MS	POOLWATERMS	MS	07/07/17 16:30		OK
19	CCV2	CCV2	CCV	07/07/17 16:59		OK
20	CCB2	CCB2	CCB	07/07/17 17:28		OK



Report of Analysis

Client:		Date Collected:	7/5/2017 12:00:00 AM
Project:	LB88618	Date Received:	7/7/2017 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB88618
Lab Sample ID:	I4111-01	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		07/07/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		07/07/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/07/2017	300.0
	Nitrate	0.31		1	0.027		0.13	mg/L		07/07/2017	300.0
	Nitrite	0.19		1	0.022		0.15	mg/L		07/07/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/07/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		07/07/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/6/2017 12:00:00 AM
Project:	LB88618	Date Received:	7/7/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB88618
Lab Sample ID:	I4112-01	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		07/07/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		07/07/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/07/2017	300.0
	Nitrate	0.36		1	0.027		0.13	mg/L		07/07/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		07/07/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/07/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		07/07/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/7/2017 12:00:00 AM
Project:	LB88618	Date Received:	7/7/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB88618
Lab Sample ID:	I4115-01	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		07/07/2017	300.0
	Chloride	56.3	OR	1	0.075		0.15	mg/L		07/07/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/07/2017	300.0
	Nitrate	0.29		1	0.027		0.13	mg/L		07/07/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		07/07/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/07/2017	300.0
	Sulfate	11.1		1	0.13		0.75	mg/L		07/07/2017	300.0



Report of Analysis

Client:		Date Collected:	7/7/2017 12:00:00 AM
Project:	LB88618	Date Received:	7/7/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB88618
Lab Sample ID:	I4115-01	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: LB88618

SDG No.: LB88618

Contract: _____ Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

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	9.8	10	98	0	90 - 110		06/12/2017	16:02	LB88618
	Chloride	2.9	3	96.7	0	90 - 110		06/12/2017	16:02	LB88618
	Fluoride	2.1	2	105	0	90 - 110		06/12/2017	16:02	LB88618
	Phosphorus, Ortho	5.1	5	102	0	90 - 110		06/12/2017	16:02	LB88618
	Nitrite	2.9	3	96.7	0	90 - 110		06/12/2017	16:02	LB88618
	Nitrate	2.4	2.5	96	0	90 - 110		06/12/2017	16:02	LB88618
	Sulfate	14.5	15	96.7	0	90 - 110		06/12/2017	16:02	LB88618



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88618

SDG No.: LB88618

Contract: _____ Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

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	9.7	10	97	0	90 - 110		07/07/2017	12:22	LB88618
	Chloride	2.9	3	96.7	0	90 - 110		07/07/2017	12:22	LB88618
	Fluoride	2.2	2	110	0	90 - 110		07/07/2017	12:22	LB88618
	Phosphorus, Ortho	5	5	100	0	90 - 110		07/07/2017	12:22	LB88618
	Nitrite	2.9	3	96.7	0	90 - 110		07/07/2017	12:22	LB88618
	Nitrate	2.4	2.5	96	0	90 - 110		07/07/2017	12:22	LB88618
	Sulfate	14.7	15	98	0	90 - 110		07/07/2017	12:22	LB88618
CCV2	Bromide	9.8	10	98	0	90 - 110		07/07/2017	16:59	LB88618
	Chloride	3	3	100	0	90 - 110		07/07/2017	16:59	LB88618
	Fluoride	2	2	100	0	90 - 110		07/07/2017	16:59	LB88618
	Phosphorus, Ortho	4.9	5	98	0	90 - 110		07/07/2017	16:59	LB88618
	Nitrite	3	3	100	0	90 - 110		07/07/2017	16:59	LB88618
	Nitrate	2.4	2.5	96	0	90 - 110		07/07/2017	16:59	LB88618
	Sulfate	15.1	15	100.7	0	90 - 110		07/07/2017	16:59	LB88618



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88618

SDG No.: LB88618

Contract: Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

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		06/12/2017	16:31	LB88618
	Chloride	0.075	+/-0.15	U		0.15		06/12/2017	16:31	LB88618
	Fluoride	0.043	+/-0.1	U		0.1		06/12/2017	16:31	LB88618
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/12/2017	16:31	LB88618
	Nitrite	0.022	+/-0.15	U		0.15		06/12/2017	16:31	LB88618
	Nitrate	0.027	+/-0.13	U		0.13		06/12/2017	16:31	LB88618
	Sulfate	0.13	+/-0.75	U		0.75		06/12/2017	16:31	LB88618



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88618

SDG No.: LB88618

Contract:

Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

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		07/07/2017	13:00	LB88618
	Chloride	0.075	+/-0.15	U		0.15		07/07/2017	13:00	LB88618
	Fluoride	0.043	+/-0.1	U		0.1		07/07/2017	13:00	LB88618
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/07/2017	13:00	LB88618
	Nitrite	0.022	+/-0.15	U		0.15		07/07/2017	13:00	LB88618
	Nitrate	0.027	+/-0.13	U		0.13		07/07/2017	13:00	LB88618
	Sulfate	0.13	+/-0.75	U		0.75		07/07/2017	13:00	LB88618
CCB2	Bromide	0.066	+/-0.5	U		0.5		07/07/2017	17:28	LB88618
	Chloride	0.075	+/-0.15	U		0.15		07/07/2017	17:28	LB88618
	Fluoride	0.043	+/-0.1	U		0.1		07/07/2017	17:28	LB88618
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/07/2017	17:28	LB88618
	Nitrite	0.022	+/-0.15	U		0.15		07/07/2017	17:28	LB88618
	Nitrate	0.027	+/-0.13	U		0.13		07/07/2017	17:28	LB88618
	Sulfate	0.13	+/-0.75	U		0.75		07/07/2017	17:28	LB88618



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88618

SDG No.: LB88618

Contract: Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

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: LB88618

SDG No.: LB88618

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
LB88618BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		07/07/2017	13:29	LB88618
	Chloride	0.075	<0.15	U		0.15		07/07/2017	13:29	LB88618
	Fluoride	0.043	<0.1	U		0.1		07/07/2017	13:29	LB88618
	Phosphorus, Ortho	0.01	<0.25	U		0.25		07/07/2017	13:29	LB88618
	Nitrite	0.022	<0.15	U		0.15		07/07/2017	13:29	LB88618
	Nitrate	0.027	<0.13	U		0.13		07/07/2017	13:29	LB88618
	Sulfate	0.13	<0.75	U		0.75		07/07/2017	13:29	LB88618



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MATRIX SPIKE SUMMARY

client: LB88618 level: low sdg no.: LB88618
contract: _____ lab code: CHEM case no.: LB88618 sas no.: LB88618
matrix: WATER sample id: I4112-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I4112-01MS 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	9.9		0.066	U	10	99		
Chloride	mg/L	80 - 120	3.1		0.075	U	3	103.3		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	4.8		0.01	U	5	96		
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.8		0.36		2.5	98		
Sulfate	mg/L	80 - 120	15.8		0.13	U	15	105.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB88618 **Level:** LOW **SDG No.:** LB88618
Contract: **Lab Code:** CHEM **Case No.:** LB88618 **SAS No.:** LB88618
Matrix: WATER **Sample ID:** I4112-01 **Client ID:** POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I4112-01DUP **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	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	0.36		0.36		0		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88618

SDG No.: LB88618

Contract:

Lab Code: CHEM

Case No.: LB88618

SAS No.: LB88618

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB88618BSW							
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Fluoride	mg/L	2	2.2		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5		100	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.7		98	90 - 110	
