



Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89199	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	REFUSE-PIT	SDG No.:	LB89199
Lab Sample ID:	I4566-01	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		08/02/2017	300.0
	Chloride	135	OR	1	0.075		0.15	mg/L		08/02/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/02/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		08/02/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/02/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/02/2017	300.0
	Sulfate	44.7	OR	1	0.13		0.75	mg/L		08/02/2017	300.0



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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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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89199

SDG No.: LB89199

Contract: _____ Lab Code: CHEM

Case No.: LB89199

SAS No.: LB89199

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	10.3	10	103	0	90 - 110		07/11/2017	15:03	LB89199
	Chloride	3	3	100	0	90 - 110		07/11/2017	15:03	LB89199
	Fluoride	2.1	2	105	0	90 - 110		07/11/2017	15:03	LB89199
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		07/11/2017	15:03	LB89199
	Nitrite	3	3	100	0	90 - 110		07/11/2017	15:03	LB89199
	Nitrate	2.5	2.5	100	0	90 - 110		07/11/2017	15:03	LB89199
	Sulfate	14.7	15	98	0	90 - 110		07/11/2017	15:03	LB89199



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89199

SDG No.: LB89199

Contract: _____ Lab Code: CHEM

Case No.: LB89199

SAS No.: LB89199

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	10.1	10	101	0	90 - 110		08/02/2017	09:15	LB89199
	Chloride	3	3	100	0	90 - 110		08/02/2017	09:15	LB89199
	Fluoride	2.1	2	105	0	90 - 110		08/02/2017	09:15	LB89199
	Phosphorus, Ortho	3.3	5	66	0	90 - 110		08/02/2017	09:15	LB89199
	Nitrite	2.9	3	96.7	0	90 - 110		08/02/2017	09:15	LB89199
	Nitrate	2.5	2.5	100	0	90 - 110		08/02/2017	09:15	LB89199
	Sulfate	14	15	93.3	0	90 - 110		08/02/2017	09:15	LB89199
CCV2	Bromide	9.6	10	96	0	90 - 110		08/02/2017	12:45	LB89199
	Chloride	3	3	100	0	90 - 110		08/02/2017	12:45	LB89199
	Fluoride	1.9	2	95	0	90 - 110		08/02/2017	12:45	LB89199
	Phosphorus, Ortho	4.2	5	84	0	90 - 110		08/02/2017	12:45	LB89199
	Nitrite	2.9	3	96.7	0	90 - 110		08/02/2017	12:45	LB89199
	Nitrate	2.5	2.5	100	0	90 - 110		08/02/2017	12:45	LB89199
	Sulfate	14.2	15	94.7	0	90 - 110		08/02/2017	12:45	LB89199



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89199

SDG No.: LB89199

Contract: Lab Code: CHEM

Case No.: LB89199

SAS No.: LB89199

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		07/11/2017	15:32	LB89199
	Chloride	0.075	+/-0.15	U		0.15		07/11/2017	15:32	LB89199
	Fluoride	0.043	+/-0.1	U		0.1		07/11/2017	15:32	LB89199
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/11/2017	15:32	LB89199
	Nitrite	0.022	+/-0.15	U		0.15		07/11/2017	15:32	LB89199
	Nitrate	0.027	+/-0.13	U		0.13		07/11/2017	15:32	LB89199
	Sulfate	0.13	+/-0.75	U		0.75		07/11/2017	15:32	LB89199



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89199

SDG No.: LB89199

Contract:

Lab Code: CHEM

Case No.: LB89199

SAS No.: LB89199

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		08/02/2017	09:51	LB89199
	Chloride	0.075	+/-0.15	U		0.15		08/02/2017	09:51	LB89199
	Fluoride	0.043	+/-0.1	U		0.1		08/02/2017	09:51	LB89199
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/02/2017	09:51	LB89199
	Nitrite	0.022	+/-0.15	U		0.15		08/02/2017	09:51	LB89199
	Nitrate	0.027	+/-0.13	U		0.13		08/02/2017	09:51	LB89199
	Sulfate	0.13	+/-0.75	U		0.75		08/02/2017	09:51	LB89199
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/02/2017	13:14	LB89199
	Chloride	0.075	+/-0.15	U		0.15		08/02/2017	13:14	LB89199
	Fluoride	0.043	+/-0.1	U		0.1		08/02/2017	13:14	LB89199
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/02/2017	13:14	LB89199
	Nitrite	0.022	+/-0.15	U		0.15		08/02/2017	13:14	LB89199
	Nitrate	0.027	+/-0.13	U		0.13		08/02/2017	13:14	LB89199
	Sulfate	0.13	+/-0.75	U		0.75		08/02/2017	13:14	LB89199



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89199

SDG No.:

LB89199

Contract:

Lab Code:

CHEM

Case No.:

LB89199

SAS No.:

LB89199

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: LB89199

SDG No.: LB89199

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
LB89199BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		08/02/2017	10:20	LB89199
	Chloride	0.075	<0.15	U		0.15		08/02/2017	10:20	LB89199
	Fluoride	0.043	<0.1	U		0.1		08/02/2017	10:20	LB89199
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/02/2017	10:20	LB89199
	Nitrite	0.022	<0.15	U		0.15		08/02/2017	10:20	LB89199
	Nitrate	0.027	<0.13	U		0.13		08/02/2017	10:20	LB89199
	Sulfate	0.13	<0.75	U		0.75		08/02/2017	10:20	LB89199



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MATRIX SPIKE SUMMARY

client: LB89199 level: low sdg no.: LB89199
contract: _____ lab code: CHEM case no.: LB89199 sas no.: LB89199
matrix: WATER sample id: I4566-01 client id: REFUSE-PITMS
Percent Solids for Sample: 0 Spiked ID: I4566-01MS 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	10.5		0.066	U	10	105		
Chloride	mg/L	80 - 120	124	OR	135	OR	3	-367	*	
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	4.3		0.01	U	5	86		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	57.6	OR	44.7	OR	15	86		

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DUPLICATE SAMPLE SUMMARY

Client: LB89199 **Level:** LOW **SDG No.:** LB89199
Contract: _____ **Lab Code:** CHEM **Case No.:** LB89199 **SAS No.:** LB89199
Matrix: WATER **Sample ID:** I4566-01 **Client ID:** REFUSE-PITDUP
Percent Solids for Sample: 0 **Duplicate ID** I4566-01DUP **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	135	OR	136	OR	1		
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	44.7	OR	45.4	OR	2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89199

SDG No.: LB89199

Contract:

Lab Code: CHEM

Case No.: LB89199

SAS No.: LB89199

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89199BSW							
Bromide	mg/L	10	10		100	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	4.1		82	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.1		94	90 - 110	

Daily Analysis Runlog For Sequence/QC Batch ID # LB89199

Review By

Review On

SubDirectory

LB89199

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP56304,WP56305,WP56306,WP56307,WP56308,WP56309,WP56310				
ICV Standard		WP56311				
CCV Standard		WP56306				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56311				
Chk Standard		WP56312,WP56313				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	07/11/17 10:41		OK
2	STD2	STD2	CAL2	07/11/17 11:10		OK
3	STD3	STD3	CAL3	07/11/17 11:39		OK
4	STD4	STD4	CAL4	07/11/17 12:08		OK
5	STD5	STD5	CAL5	07/11/17 12:37		OK
6	STD6	STD6	CAL6	07/11/17 13:06		OK
7	STD7	STD7	CAL7	07/11/17 13:35		OK
8	ICV1	ICV1	ICV	07/11/17 15:03		OK
9	ICB1	ICB1	ICB	07/11/17 15:32		OK
10	CCV1	CCV1	CCV	08/02/17 09:15		OK
11	CCB1	CCB1	CCB	08/02/17 09:51		OK
12	LB89199BLW	LB89199BLW	MB	08/02/17 10:20		OK
13	LB89199BSW	LB89199BSW	LCS	08/02/17 10:49		OK
14	I4566-01	REFUSE-PIT	SAM	08/02/17 11:18		OK
15	I4566-01DUP	REFUSE-PITDUP	DUP	08/02/17 11:47		OK
16	I4566-01MS	REFUSE-PITMS	MS	08/02/17 12:16		OK
17	CCV2	CCV2	CCV	08/02/17 12:45		OK
18	CCB2	CCB2	CCB	08/02/17 13:14		OK