



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87060

SDG No.: LB87060

Contract: _____ Lab Code: CHEM

Case No.: LB87060

SAS No.: LB87060

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		04/14/2017	18:12	LB87060
	Chloride	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB87060
	Fluoride	2.1	2	105	0	90 - 110		04/14/2017	18:12	LB87060
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		04/14/2017	18:12	LB87060
	Nitrite	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB87060
	Nitrate	2.4	2.5	96	0	90 - 110		04/14/2017	18:12	LB87060
	Sulfate	14.5	15	96.7	0	90 - 110		04/14/2017	18:12	LB87060



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Client: LB87060

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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	10.7	10	107	0	90 - 110		04/25/2017	09:16	LB87060
	Chloride	3	3	100	0	90 - 110		04/25/2017	09:16	LB87060
	Fluoride	1.9	2	95	0	90 - 110		04/25/2017	09:16	LB87060
	Phosphorus, Ortho	4.4	5	88	0	90 - 110		04/25/2017	09:16	LB87060
	Nitrite	3	3	100	0	90 - 110		04/25/2017	09:16	LB87060
	Nitrate	2.4	2.5	96	0	90 - 110		04/25/2017	09:16	LB87060
	Sulfate	14.3	15	95.3	0	90 - 110		04/25/2017	09:16	LB87060
CCV2	Bromide	10.5	10	105	0	90 - 110		04/25/2017	15:51	LB87060
	Chloride	2.9	3	96.7	0	90 - 110		04/25/2017	15:51	LB87060
	Fluoride	1.9	2	95	0	90 - 110		04/25/2017	15:51	LB87060
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		04/25/2017	15:51	LB87060
	Nitrite	3.1	3	103.3	0	90 - 110		04/25/2017	15:51	LB87060
	Nitrate	2.4	2.5	96	0	90 - 110		04/25/2017	15:51	LB87060
	Sulfate	14.1	15	94	0	90 - 110		04/25/2017	15:51	LB87060



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87060

SDG No.: LB87060

Contract: Lab Code: CHEM

Case No.: LB87060

SAS No.: LB87060

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		04/14/2017	18:43	LB87060
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	18:43	LB87060
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	18:43	LB87060
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	18:43	LB87060
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	18:43	LB87060
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	18:43	LB87060
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	18:43	LB87060



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87060

SDG No.: LB87060

Contract:

Lab Code: CHEM

Case No.: LB87060

SAS No.: LB87060

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		04/25/2017	10:10	LB87060
	Chloride	0.075	+/-0.15	U		0.15		04/25/2017	10:10	LB87060
	Fluoride	0.043	+/-0.1	U		0.1		04/25/2017	10:10	LB87060
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/25/2017	10:10	LB87060
	Nitrite	0.022	+/-0.15	U		0.15		04/25/2017	10:10	LB87060
	Nitrate	0.027	+/-0.13	U		0.13		04/25/2017	10:10	LB87060
	Sulfate	0.13	+/-0.75	U		0.75		04/25/2017	10:10	LB87060
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/25/2017	16:22	LB87060
	Chloride	0.075	+/-0.15	U		0.15		04/25/2017	16:22	LB87060
	Fluoride	0.043	+/-0.1	U		0.1		04/25/2017	16:22	LB87060
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/25/2017	16:22	LB87060
	Nitrite	0.022	+/-0.15	U		0.15		04/25/2017	16:22	LB87060
	Nitrate	0.027	+/-0.13	U		0.13		04/25/2017	16:22	LB87060
	Sulfate	0.13	+/-0.75	U		0.75		04/25/2017	16:22	LB87060



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87060

SDG No.: LB87060

Contract: Lab Code: CHEM

Case No.: LB87060

SAS No.: LB87060

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87060	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	CELL-A-POOLWATER	SDG No.:	LB87060
Lab Sample ID:	I2838-01	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		04/25/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/25/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/25/2017	300.0
	Nitrate	0.55		1	0.027		0.13	mg/L		04/25/2017	300.0
	Nitrite	0.22		1	0.022		0.15	mg/L		04/25/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/25/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/25/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87060	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	CELL-B-C-POOLWATER	SDG No.:	LB87060
Lab Sample ID:	I2838-02	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		04/25/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/25/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/25/2017	300.0
	Nitrate	0.44		1	0.027		0.13	mg/L		04/25/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/25/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/25/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/25/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87060	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	CELL-D-POOLWATER	SDG No.:	LB87060
Lab Sample ID:	I2838-03	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		04/25/2017	300.0
	Chloride	0.51		1	0.075		0.15	mg/L		04/25/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/25/2017	300.0
	Nitrate	0.4		1	0.027		0.13	mg/L		04/25/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/25/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/25/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/25/2017	300.0



Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87060	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	CELL-D-POOLWATER	SDG No.:	LB87060
Lab Sample ID:	I2838-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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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PREPARATION BLANK SUMMARY

Client: LB87060

SDG No.: LB87060

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
LB87060BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/25/2017	10:41	LB87060
	Chloride	0.075	<0.15	U		0.15		04/25/2017	10:41	LB87060
	Fluoride	0.043	<0.1	U		0.1		04/25/2017	10:41	LB87060
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/25/2017	10:41	LB87060
	Nitrite	0.022	<0.15	U		0.15		04/25/2017	10:41	LB87060
	Nitrate	0.027	<0.13	U		0.13		04/25/2017	10:41	LB87060
	Sulfate	0.13	<0.75	U		0.75		04/25/2017	10:41	LB87060



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MATRIX SPIKE SUMMARY

client: LB87060 level: low sdg no.: LB87060
contract: lab code: CHEM case no.: LB87060 sas no.: LB87060
matrix: WATER sample id: I2838-03 client id: CELL-D-POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I2838-03MS 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	11		0.066	U	10	110		
Chloride	mg/L	80 - 120	3.5		0.51		3	100		
Fluoride	mg/L	80 - 120	1.8		0.043	U	2	90		
Phosphorus, Ortho	mg/L	80 - 120	4.7		0.01	U	5	94		
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.8		0.4		2.5	96		
Sulfate	mg/L	80 - 120	15		0.13	U	15	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB87060 **Level:** LOW **SDG No.:** LB87060
Contract: _____ **Lab Code:** CHEM **Case No.:** LB87060 **SAS No.:** LB87060
Matrix: WATER **Sample ID:** I2838-03 **Client ID:** CELL-D-POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I2838-03DUP **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	0.51		0.54		6		
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	0.4		0.39		3		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87060

SDG No.: LB87060

Contract:

Lab Code: CHEM

Case No.: LB87060

SAS No.: LB87060

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87060BSW							
Bromide	mg/L	10	10.5		105	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	1.8		90	90 - 110	
Phosphorus, Ortho	mg/L	5	5		100	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	14.3		95.3	90 - 110	