



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	6/16/2017 12:00:00 AM
Project:	LB88547	Date Received:	6/16/2017 12:00:00 AM
Client Sample ID:	LOD-WATER-05-QT3-2017	SDG No.:	LB88547
Lab Sample ID:	I3757-05	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	0.47	J	1	0.066		0.5	mg/L		06/21/2017	9056
	Chloride	0.13	J	1	0.075		0.15	mg/L		06/21/2017	9056
	Fluoride	0.064	J	1	0.043		0.1	mg/L		06/21/2017	9056
	Nitrate	0.13		1	0.027		0.11	mg/L		06/21/2017	9056
	Nitrite	0.17		1	0.022		0.15	mg/L		06/21/2017	9056
	Phosphorus, Ortho	-0.11	U	1	0.01		0.24	mg/L		06/21/2017	9056
	Sulfate	0.91		1	0.13		0.75	mg/L		06/21/2017	9056



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Client Sample ID:	LOD-WATER-05-QT3-2017	SDG No.:	LB88547
Lab Sample ID:	I3757-05	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: LB88547

SDG No.: LB88547

Contract: _____ Lab Code: CHEM

Case No.: LB88547

SAS No.: LB88547

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	9.9	10	99	0	90 - 110		06/08/2017	15:47	LB88547
	Chloride	3	3	100	0	90 - 110		06/08/2017	15:47	LB88547
	Fluoride	2	2	100	0	90 - 110		06/08/2017	15:47	LB88547
	Phosphorus, Ortho	5.1	5	102	0	90 - 110		06/08/2017	15:47	LB88547
	Nitrite	3	3	100	0	90 - 110		06/08/2017	15:47	LB88547
	Nitrate	2.5	2.5	100	0	90 - 110		06/08/2017	15:47	LB88547
	Sulfate	14.6	15	97.3	0	90 - 110		06/08/2017	15:47	LB88547



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88547

SDG No.: LB88547

Contract: **Lab Code:** CHEM

Case No.: LB88547

SAS No.: LB88547

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Bromide	9.6	10	96	0	90 - 110		06/21/2017	09:45	LB88547
	Chloride	2.9	3	96.7	0	90 - 110		06/21/2017	09:45	LB88547
	Fluoride	2	2	100	0	90 - 110		06/21/2017	09:45	LB88547
	Phosphorus, Ortho	4.5	5	90	0	90 - 110		06/21/2017	09:45	LB88547
	Nitrite	2.8	3	93.3	0	90 - 110		06/21/2017	09:45	LB88547
	Nitrate	2.4	2.5	96	0	90 - 110		06/21/2017	09:45	LB88547
	Sulfate	14.2	15	94.7	0	90 - 110		06/21/2017	09:45	LB88547
CCV2	Bromide	9.7	10	97	0	90 - 110		06/21/2017	13:16	LB88547
	Chloride	2.9	3	96.7	0	90 - 110		06/21/2017	13:16	LB88547
	Fluoride	2	2	100	0	90 - 110		06/21/2017	13:16	LB88547
	Phosphorus, Ortho	5.1	5	102	0	90 - 110		06/21/2017	13:16	LB88547
	Nitrite	2.8	3	93.3	0	90 - 110		06/21/2017	13:16	LB88547
	Nitrate	2.4	2.5	96	0	90 - 110		06/21/2017	13:16	LB88547
	Sulfate	14.2	15	94.7	0	90 - 110		06/21/2017	13:16	LB88547



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88547

SDG No.: LB88547

Contract: **Lab Code:** CHEM

Case No.: LB88547

SAS No.: LB88547

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		06/08/2017	17:26	LB88547
	Chloride	0.075	+/-0.15	U		0.15		06/08/2017	17:26	LB88547
	Fluoride	0.043	+/-0.1	U		0.1		06/08/2017	17:26	LB88547
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		06/08/2017	17:26	LB88547
	Nitrite	0.022	+/-0.15	U		0.15		06/08/2017	17:26	LB88547
	Nitrate	0.027	+/-0.11	U		0.11		06/08/2017	17:26	LB88547
	Sulfate	0.13	+/-0.75	U		0.75		06/08/2017	17:26	LB88547



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88547

SDG No.: LB88547

Contract:

Lab Code: CHEM

Case No.: LB88547

SAS No.: LB88547

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		06/21/2017	10:38	LB88547
	Chloride	0.075	+/-0.15	U		0.15		06/21/2017	10:38	LB88547
	Fluoride	0.043	+/-0.1	U		0.1		06/21/2017	10:38	LB88547
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		06/21/2017	10:38	LB88547
	Nitrite	0.022	+/-0.15	U		0.15		06/21/2017	10:38	LB88547
	Nitrate	0.027	+/-0.11	U		0.11		06/21/2017	10:38	LB88547
	Sulfate	0.13	+/-0.75	U		0.75		06/21/2017	10:38	LB88547
CCB2	Bromide	0.066	+/-0.5	U		0.5		06/21/2017	13:47	LB88547
	Chloride	0.075	+/-0.15	U		0.15		06/21/2017	13:47	LB88547
	Fluoride	0.043	+/-0.1	U		0.1		06/21/2017	13:47	LB88547
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		06/21/2017	13:47	LB88547
	Nitrite	0.022	+/-0.15	U		0.15		06/21/2017	13:47	LB88547
	Nitrate	0.027	+/-0.11	U		0.11		06/21/2017	13:47	LB88547
	Sulfate	0.13	+/-0.75	U		0.75		06/21/2017	13:47	LB88547



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88547

SDG No.: LB88547

Contract:

Lab Code: CHEM

Case No.: LB88547

SAS No.: LB88547

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: LB88547

SDG No.: LB88547

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB88547BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		06/21/2017	11:09	LB88547
	Chloride	0.075	<0.15	U		0.15		06/21/2017	11:09	LB88547
	Fluoride	0.043	<0.1	U		0.1		06/21/2017	11:09	LB88547
	Phosphorus, Ortho	0.01	<0.24	U		0.24		06/21/2017	11:09	LB88547
	Nitrite	0.022	<0.15	U		0.15		06/21/2017	11:09	LB88547
	Nitrate	0.027	<0.11	U		0.11		06/21/2017	11:09	LB88547
	Sulfate	0.13	<0.75	U		0.75		06/21/2017	11:09	LB88547



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88547

SDG No.: LB88547

Contract: _____

Lab Code: CHEM

Case No.: LB88547

SAS No.: LB88547

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
I3757-06							
Bromide	mg/L	1	1.3		130	50 - 150	
Chloride	mg/L	0.3	0.4		133.3	50 - 150	
Fluoride	mg/L	0.2	0.24		120	50 - 150	
Phosphorus, Ortho	mg/L	0.48	0.6		125	50 - 150	
Nitrite	mg/L	0.3	0.4		133.3	50 - 150	
Nitrate	mg/L	0.23	0.32		139.1	50 - 150	
Sulfate	mg/L	1.5	2		133.3	50 - 150	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88547

SDG No.: LB88547

Contract:

Lab Code: CHEM

Case No.: LB88547

SAS No.: LB88547

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB88547BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	4.9		98	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	

Daily Analysis Runlog For Sequence/QC Batch ID # LB88547

Review By		Review On				
SubDirectory		LB88547		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP55462,WP55463,WP55464,WP55465,WP55466,WP55467,WP55468				
ICV Standard		WP55469				
CCV Standard		WP55806				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55807				
Chk Standard		WP55777,WP55554				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	06/08/17 10:57		OK
2	STD2	STD2	CAL2	06/08/17 11:28		OK
3	STD3	STD3	CAL3	06/08/17 11:59		OK
4	STD4	STD4	CAL4	06/08/17 12:30		OK
5	STD5	STD5	CAL5	06/08/17 13:01		OK
6	STD6	STD6	CAL6	06/08/17 13:32		OK
7	STD7	STD7	CAL7	06/08/17 14:03		OK
8	ICV1	ICV1	ICV	06/08/17 15:47		OK
9	ICB1	ICB1	ICB	06/08/17 17:26		OK
10	CCV1	CCV1	CCV	06/21/17 09:45		OK
11	CCB1	CCB1	CCB	06/21/17 10:38		OK
12	LB88547BLW	LB88547BLW	MB	06/21/17 11:09		OK
13	LB88547BSW	LB88547BSW	LCS	06/21/17 11:40		OK
14	I3757-05	LOD-WATER-05-QT3	SAM	06/21/17 12:14		OK
15	I3757-06	LOQ-WATER-06-QT3	LOQ	06/21/17 12:45		OK
16	CCV2	CCV2	CCV	06/21/17 13:16		OK
17	CCB2	CCB2	CCB	06/21/17 13:47		OK