



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

Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW16A	SDG No.:	LB86911
Lab Sample ID:	I2710-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	71.1		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW13	SDG No.:	LB86911
Lab Sample ID:	I2710-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	40.9		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW12	SDG No.:	LB86911
Lab Sample ID:	I2710-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	28.9		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW3	SDG No.:	LB86911
Lab Sample ID:	I2710-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	28.2		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW11	SDG No.:	LB86911
Lab Sample ID:	I2710-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	43.4		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW6	SDG No.:	LB86911
Lab Sample ID:	I2710-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	20.6		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW7	SDG No.:	LB86911
Lab Sample ID:	I2710-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	29.9		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW5	SDG No.:	LB86911
Lab Sample ID:	I2710-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	27.2		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW9	SDG No.:	LB86911
Lab Sample ID:	I2710-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	26.6		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW4	SDG No.:	LB86911
Lab Sample ID:	I2710-12	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	20.1		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW17	SDG No.:	LB86911
Lab Sample ID:	I2710-13	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	20		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB86911
Lab Sample ID:	I2710-14	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	26.4		1	0.4		2	mg/L		04/17/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86911	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB86911
Lab Sample ID:	I2710-14	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
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PREPARATION BLANK SUMMARY

Client: LB86911

SDG No.: LB86911

Instrument: Titroline Alpha Titrator

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86911BLW	Bicarbonate	0.4	<2	U		2		04/17/2017	13:28	LB86911



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86911 **Level:** LOW **SDG No.:** LB86911
Contract: **Lab Code:** CHEM **Case No.:** LB86911 **SAS No.:** LB86911
Matrix: WATER **Sample ID:** I2710-02 **Client ID:** SW13DUP
Percent Solids for Sample: 0 **Duplicate ID** I2710-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bicarbonate	mg/L	20	40.9		40.8		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86911

SDG No.: LB86911

Contract:

Lab Code: CHEM

Case No.: LB86911

SAS No.: LB86911

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86911BSW Bicarbonate	mg/L	50	44.7		89.4	80 - 120	



Instrument ID: TITRATOR

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB86911

Review By		Review On				
SubDirectory LB86911		Test : Bicarbonate				
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54284				
Chk Standard		W2074,W2159,W2183				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	LB86911BLW	LB86911BLW	MB	04/17/17 13:28		OK
2	LB86911BSW	LB86911BSW	LCS	04/17/17 13:57		OK
3	I2710-01	SW16A	SAM	04/17/17 14:09		OK
4	I2710-02	SW13	SAM	04/17/17 14:13		OK
5	I2710-02DUP	SW13DUP	DUP	04/17/17 14:17		OK
6	I2710-04	SW3	SAM	04/17/17 14:20		OK
7	I2710-07	SW11	SAM	04/17/17 14:24		OK
8	I2710-08	SW6	SAM	04/17/17 14:28		OK
9	I2710-11	SW9	SAM	04/17/17 14:38		OK
10	I2710-12	SW4	SAM	04/17/17 14:41		OK
11	I2710-13	SW17	SAM	04/17/17 14:44		OK
12	I2710-14	SW14	SAM	04/17/17 14:48		OK
13	I2710-03	SW12	SAM	04/17/17 14:51		OK
14	I2710-09	SW7	SAM	04/17/17 14:58		OK
15	I2710-10	SW5	SAM	04/17/17 15:03		OK