



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

Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92543	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19C	SDG No.:	LB92543
Lab Sample ID:	J1054-03	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	0.93		1	0.066		0.5	mg/L		01/09/2018	300.0
	Chloride	236	OR	1	0.075		0.15	mg/L		01/09/2018	300.0
	Fluoride	0.59		1	0.043		0.1	mg/L		01/09/2018	300.0
	Nitrate	0.49		1	0.027		0.13	mg/L		01/09/2018	300.0
	Nitrite	1.9		1	0.022		0.15	mg/L		01/09/2018	300.0
	Phosphorus, Ortho	1.3		1	0.01		0.25	mg/L		01/09/2018	300.0
	Sulfate	36		1	0.13		0.75	mg/L		01/09/2018	300.0



Report of Analysis

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Lab Sample ID:	J1054-03	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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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92543

SDG No.: LB92543

Contract: _____ Lab Code: CHEM

Case No.: LB92543

SAS No.: LB92543

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	9.7	10	97	0	90 - 110		01/02/2018	16:30	LB92543
	Chloride	2.9	3	96.7	0	90 - 110		01/02/2018	16:30	LB92543
	Fluoride	2.1	2	105	0	90 - 110		01/02/2018	16:30	LB92543
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		01/02/2018	16:30	LB92543
	Nitrite	2.9	3	96.7	0	90 - 110		01/02/2018	16:30	LB92543
	Nitrate	2.4	2.5	96	0	90 - 110		01/02/2018	16:30	LB92543
	Sulfate	14.1	15	94	0	90 - 110		01/02/2018	16:30	LB92543

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		01/02/2018	17:01	LB92543
	Chloride	0.075	+/-0.15	U		0.15		01/02/2018	17:01	LB92543
	Fluoride	0.043	+/-0.1	U		0.1		01/02/2018	17:01	LB92543
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/02/2018	17:01	LB92543
	Nitrite	0.022	+/-0.15	U		0.15		01/02/2018	17:01	LB92543
	Nitrate	0.027	+/-0.13	U		0.13		01/02/2018	17:01	LB92543
	Sulfate	0.13	+/-0.75	U		0.75		01/02/2018	17:01	LB92543



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92543

SDG No.: LB92543

Contract:

Lab Code: CHEM

Case No.: LB92543

SAS No.: LB92543

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		01/09/2018	10:33	LB92543
	Chloride	0.075	+/-0.15	U		0.15		01/09/2018	10:33	LB92543
	Fluoride	0.043	+/-0.1	U		0.1		01/09/2018	10:33	LB92543
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/09/2018	10:33	LB92543
	Nitrite	0.022	+/-0.15	U		0.15		01/09/2018	10:33	LB92543
	Nitrate	0.027	+/-0.13	U		0.13		01/09/2018	10:33	LB92543
	Sulfate	0.13	+/-0.75	U		0.75		01/09/2018	10:33	LB92543
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/09/2018	14:13	LB92543
	Chloride	0.075	+/-0.15	U		0.15		01/09/2018	14:13	LB92543
	Fluoride	0.043	+/-0.1	U		0.1		01/09/2018	14:13	LB92543
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/09/2018	14:13	LB92543
	Nitrite	0.022	+/-0.15	U		0.15		01/09/2018	14:13	LB92543
	Nitrate	0.027	+/-0.13	U		0.13		01/09/2018	14:13	LB92543
	Sulfate	0.13	+/-0.75	U		0.75		01/09/2018	14:13	LB92543



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92543

SDG No.: LB92543

Contract: Lab Code: CHEM

Case No.: LB92543

SAS No.: LB92543

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: LB92543

SDG No.: LB92543

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
LB92543BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/09/2018	11:04	LB92543
	Chloride	0.075	<0.15	U		0.15		01/09/2018	11:04	LB92543
	Fluoride	0.043	<0.1	U		0.1		01/09/2018	11:04	LB92543
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/09/2018	11:04	LB92543
	Nitrite	0.022	<0.15	U		0.15		01/09/2018	11:04	LB92543
	Nitrate	0.027	<0.13	U		0.13		01/09/2018	11:04	LB92543
	Sulfate	0.13	<0.75	U		0.75		01/09/2018	11:04	LB92543



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MATRIX SPIKE SUMMARY

client: LB92543 level: low sdg no.: LB92543
contract: _____ lab code: CHEM case no.: LB92543 sas no.: LB92543
matrix: WATER sample id: J1054-03 client id: FINAL-EFFLUENT-19CMS
Percent Solids for Sample: 0 Spiked ID: J1054-03MS 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	10.6		0.93		10	97		
Chloride	mg/L	80 - 120	219	OR	236	OR	3	-567	*	
Fluoride	mg/L	80 - 120	2.4		0.59		2	91		
Phosphorus, Ortho	mg/L	80 - 120	6.6		1.3		5	106		
Nitrite	mg/L	80 - 120	4.8		1.9		3	97		
Nitrate	mg/L	80 - 120	2.9		0.49		2.5	96		
Sulfate	mg/L	80 - 120	48.3	OR	36		15	82		

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DUPLICATE SAMPLE SUMMARY

Client: LB92543 **Level:** LOW **SDG No.:** LB92543
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92543 **SAS No.:** LB92543
Matrix: WATER **Sample ID:** J1054-03 **Client ID:** FINAL-EFFLUENT-19CDUP
Percent Solids for Sample: 0 **Duplicate ID** J1054-03DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.93		0.94		1		
Chloride	mg/L	20	236	OR	236	OR	0		
Fluoride	mg/L	20	0.59		0.58		2		
Phosphorus, Ortho	mg/L	20	1.3		1.2		8		
Nitrite	mg/L	20	1.9		1.9		0		
Nitrate	mg/L	20	0.49		0.5		2		
Sulfate	mg/L	20	36		35.6		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92543

SDG No.: LB92543

Contract:

Lab Code: CHEM

Case No.: LB92543

SAS No.: LB92543

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92543BSW							
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	5.1		102	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	13.4		89.3	90 - 110	
