



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

Report of Analysis

Client:		Date Collected:	5/22/2017 12:00:00 AM
Project:	LB87625	Date Received:	5/22/2017 12:00:00 AM
Client Sample ID:	WS-6	SDG No.:	LB87625
Lab Sample ID:	I3303-01	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	4		1	0.066		0.5	mg/L		05/23/2017	300.0
	Chloride	311	OR	1	0.075		0.15	mg/L		05/23/2017	300.0
	Fluoride	0.54		1	0.043		0.1	mg/L		05/23/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		05/23/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		05/23/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		05/23/2017	300.0
	Sulfate	214	OR	1	0.13		0.75	mg/L		05/23/2017	300.0



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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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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87625

SDG No.: LB87625

Contract: _____ Lab Code: CHEM

Case No.: LB87625

SAS No.: LB87625

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	10.4	10	104	0	90 - 110		05/15/2017	15:57	LB87625
	Chloride	3	3	100	0	90 - 110		05/15/2017	15:57	LB87625
	Fluoride	2	2	100	0	90 - 110		05/15/2017	15:57	LB87625
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		05/15/2017	15:57	LB87625
	Nitrite	2.9	3	96.7	0	90 - 110		05/15/2017	15:57	LB87625
	Nitrate	2.5	2.5	100	0	90 - 110		05/15/2017	15:57	LB87625
	Sulfate	14.9	15	99.3	0	90 - 110		05/15/2017	15:57	LB87625



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87625

SDG No.: LB87625

Contract: _____ Lab Code: CHEM

Case No.: LB87625

SAS No.: LB87625

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	10.5	10	105	0	90 - 110		05/23/2017	09:10	LB87625
	Chloride	3.1	3	103.3	0	90 - 110		05/23/2017	09:10	LB87625
	Fluoride	2.1	2	105	0	90 - 110		05/23/2017	09:10	LB87625
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		05/23/2017	09:10	LB87625
	Nitrite	3.2	3	106.7	0	90 - 110		05/23/2017	09:10	LB87625
	Nitrate	2.5	2.5	100	0	90 - 110		05/23/2017	09:10	LB87625
	Sulfate	14.4	15	96	0	90 - 110		05/23/2017	09:10	LB87625
CCV2	Bromide	10.3	10	103	0	90 - 110		05/23/2017	12:32	LB87625
	Chloride	3.1	3	103.3	0	90 - 110		05/23/2017	12:32	LB87625
	Fluoride	2.1	2	105	0	90 - 110		05/23/2017	12:32	LB87625
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		05/23/2017	12:32	LB87625
	Nitrite	3.1	3	103.3	0	90 - 110		05/23/2017	12:32	LB87625
	Nitrate	2.4	2.5	96	0	90 - 110		05/23/2017	12:32	LB87625
	Sulfate	14.6	15	97.3	0	90 - 110		05/23/2017	12:32	LB87625



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87625

SDG No.: LB87625

Contract: Lab Code: CHEM

Case No.: LB87625

SAS No.: LB87625

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		05/15/2017	16:26	LB87625
	Chloride	0.075	+/-0.15	U		0.15		05/15/2017	16:26	LB87625
	Fluoride	0.043	+/-0.1	U		0.1		05/15/2017	16:26	LB87625
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/15/2017	16:26	LB87625
	Nitrite	0.022	+/-0.15	U		0.15		05/15/2017	16:26	LB87625
	Nitrate	0.027	+/-0.13	U		0.13		05/15/2017	16:26	LB87625
	Sulfate	0.13	+/-0.75	U		0.75		05/15/2017	16:26	LB87625

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		05/23/2017	09:39	LB87625
	Chloride	0.075	+/-0.15	U		0.15		05/23/2017	09:39	LB87625
	Fluoride	0.043	+/-0.1	U		0.1		05/23/2017	09:39	LB87625
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/23/2017	09:39	LB87625
	Nitrite	0.022	+/-0.15	U		0.15		05/23/2017	09:39	LB87625
	Nitrate	0.027	+/-0.13	U		0.13		05/23/2017	09:39	LB87625
	Sulfate	0.13	+/-0.75	U		0.75		05/23/2017	09:39	LB87625
CCB2	Bromide	0.066	+/-0.5	U		0.5		05/23/2017	13:01	LB87625
	Chloride	0.075	+/-0.15	U		0.15		05/23/2017	13:01	LB87625
	Fluoride	0.043	+/-0.1	U		0.1		05/23/2017	13:01	LB87625
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/23/2017	13:01	LB87625
	Nitrite	0.022	+/-0.15	U		0.15		05/23/2017	13:01	LB87625
	Nitrate	0.027	+/-0.13	U		0.13		05/23/2017	13:01	LB87625
	Sulfate	0.13	+/-0.75	U		0.75		05/23/2017	13:01	LB87625



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87625

SDG No.: LB87625

Contract: Lab Code: CHEM

Case No.: LB87625

SAS No.: LB87625

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: LB87625

SDG No.: LB87625

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
LB87625BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		05/23/2017	10:08	LB87625
	Chloride	0.075	<0.15	U		0.15		05/23/2017	10:08	LB87625
	Fluoride	0.043	<0.1	U		0.1		05/23/2017	10:08	LB87625
	Phosphorus, Ortho	0.01	<0.25	U		0.25		05/23/2017	10:08	LB87625
	Nitrite	0.022	<0.15	U		0.15		05/23/2017	10:08	LB87625
	Nitrate	0.027	<0.13	U		0.13		05/23/2017	10:08	LB87625
	Sulfate	0.13	<0.75	U		0.75		05/23/2017	10:08	LB87625



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MATRIX SPIKE SUMMARY

client: LB87625 level: low sdg no.: LB87625
contract: _____ lab code: CHEM case no.: LB87625 sas no.: LB87625
matrix: WATER sample id: I3303-01 client id: WS-6MS
Percent Solids for Sample: 0 Spiked ID: I3303-01MS 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	13.4		4		10	94		
Chloride	mg/L	80 - 120	289	OR	311	OR	3	-733	*	
Fluoride	mg/L	80 - 120	2.7		0.54		2	108		
Phosphorus, Ortho	mg/L	80 - 120	6.5		0.01	U	5	130	*	
Nitrite	mg/L	80 - 120	2.7		0.022	U	3	90		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	215	OR	214	OR	15	7	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB87625 **Level:** LOW **SDG No.:** LB87625
Contract: _____ **Lab Code:** CHEM **Case No.:** LB87625 **SAS No.:** LB87625
Matrix: WATER **Sample ID:** I3303-01 **Client ID:** WS-6DUP
Percent Solids for Sample: 0 **Duplicate ID** I3303-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	4		4		0		
Chloride	mg/L	20	311	OR	311	OR	0		
Fluoride	mg/L	20	0.54		0.5		8		
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	214	OR	213	OR	0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87625

SDG No.: LB87625

Contract:

Lab Code: CHEM

Case No.: LB87625

SAS No.: LB87625

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87625BSW							
Bromide	mg/L	10	9.8		98	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.3		106	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	14.1		94	90 - 110	

Daily Analysis Runlog For Sequence/QC Batch ID # LB87625

Review By		Review On				
SubDirectory		LB87625		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP54913,WP54914,WP54915,WP54916,WP54917,WP54918,WP54919				
ICV Standard		WP54920				
CCV Standard		WP54120				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54121				
Chk Standard		WP54734,WP54761				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	05/15/17 11:02		OK
2	STD2	STD2	CAL2	05/15/17 11:31		OK
3	STD3	STD3	CAL3	05/15/17 12:00		OK
4	STD4	STD4	CAL4	05/15/17 12:29		OK
5	STD5	STD5	CAL5	05/15/17 12:58		OK
6	STD6	STD6	CAL6	05/15/17 13:27		OK
7	STD7	STD7	CAL7	05/15/17 13:55		OK
8	ICV1	ICV1	ICV	05/15/17 15:57		OK
9	ICB1	ICB1	ICB	05/15/17 16:26		OK
10	CCV1	CCV1	CCV	05/23/17 09:10		OK
11	CCB1	CCB1	CCB	05/23/17 09:39		OK
12	LB87625BLW	LB87625BLW	MB	05/23/17 10:08		OK
13	LB87625BSW	LB87625BSW	LCS	05/23/17 10:37		OK
14	I3303-01	WS-6	SAM	05/23/17 11:05		OK
15	I3303-01DUP	WS-6DUP	DUP	05/23/17 11:34		OK
16	I3303-01MS	WS-6MS	MS	05/23/17 12:03		OK
17	CCV2	CCV2	CCV	05/23/17 12:32		OK
18	CCB2	CCB2	CCB	05/23/17 13:01		OK