



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

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-6I	SDG No.:	LB86917
Lab Sample ID:	I2699-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	2140	OR	50	4		25	mg/L		04/17/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-6IDL	SDG No.:	LB86917
Lab Sample ID:	I2699-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	2290	D	200	16		100	mg/L		04/17/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-3I	SDG No.:	LB86917
Lab Sample ID:	I2699-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	-0.66	U	1	0.08		0.5	mg/L		04/17/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MW-12	SDG No.:	LB86917
Lab Sample ID:	I2699-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	906		50	4		25	mg/L		04/17/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	DUP	SDG No.:	LB86917
Lab Sample ID:	I2699-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	2210		200	16		100	mg/L		04/17/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86917	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	DUP	SDG No.:	LB86917
Lab Sample ID:	I2699-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB86917

SDG No.: LB86917

Contract: _____

Lab Code: CHEM

Case No.: LB86917

SAS No.: LB86917

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	TOC	10.6	10	106	0	90 - 110		03/20/2017	12:42	LB86917



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86917

SDG No.: LB86917

Contract: _____ Lab Code: CHEM

Case No.: LB86917

SAS No.: LB86917

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	TOC	9.1	10	91	0	90 - 110		04/17/2017	10:45	LB86917
CCV2	TOC	9.2	10	92	0	90 - 110		04/17/2017	17:34	LB86917



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86917 **SDG No.:** LB86917
Contract: **Lab Code:** CHEM **Case No.:** LB86917 **SAS No.:** LB86917

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TOC	0.23	+/-0.5	J		0.5		03/20/2017	12:54	LB86917



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86917

SDG No.: LB86917

Contract:

Lab Code: CHEM

Case No.: LB86917

SAS No.: LB86917

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	0.12	+/-0.5	J		0.5		04/17/2017	10:58	LB86917
CCB2	TOC	0.15	+/-0.5	J		0.5		04/17/2017	17:47	LB86917



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86917

SDG No.: LB86917

Contract: Lab Code: CHEM

Case No.: LB86917

SAS No.: LB86917

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86917

SDG No.: LB86917

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86917BLW	TOC	0.043	<0.5	U		0.5		04/17/2017	11:50	LB86917



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86917 level: low sdg no.: LB86917
contract: lab code: CHEM case no.: LB86917 sas no.: LB86917
matrix: WATER sample id: I2699-02 client id: MW-3IMS
Percent Solids for Sample: 0 Spiked ID: I2699-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	9.9		0.08	U	10	99		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86917 level: low sdg no.: LB86917
contract: lab code: CHEM case no.: LB86917 sas no.: LB86917
matrix: WATER sample id: I2699-02 client id: MW-3IMSD
Percent Solids for Sample: 0 Spiked ID: I2699-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	9.4		0.08	U	10	94		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86917 Level: LOW SDG No.: LB86917
Contract: _____ Lab Code: CHEM Case No.: LB86917 SAS No.: LB86917
Matrix: WATER Sample ID: I2699-02 Client ID: MW-3IDUP
Percent Solids for Sample: 0 Duplicate ID I2699-02DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	0.08	U	-0.84	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86917 Level: LOW SDG No.: LB86917
Contract: _____ Lab Code: CHEM Case No.: LB86917 SAS No.: LB86917
Matrix: WATER Sample ID: I2699-02MS Client ID: MW-3IMSD
Percent Solids for Sample: 0 Duplicate ID I2699-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	9.9		9.4		5		

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86917

SDG No.: LB86917

Contract:

Lab Code: CHEM

Case No.: LB86917

SAS No.: LB86917

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86917BSW TOC	mg/L	10	9.3		93	90 - 110	

Daily Analysis Runlog For Sequence/QC Batch ID # LB86917

Review By

Review On

SubDirectory

LB86917

Test :

TOC

STD. NAME	STD REF.#
ICAL Standard	WP53623,WP53624,WP53625,WP53626,WP53627,WP53628,WP53629,WP53630,WP53631
ICV Standard	WP53632
CCV Standard	WP53630
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP53632
Chk Standard	WP53260

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPM	0.0PPM	CAL1	03/20/17 11:05		OK
2	0.5PPM	0.5PPM	CAL2	03/20/17 11:19		OK
3	1.0PPM	1.0PPM	CAL3	03/20/17 11:32		OK
4	2.0PPM	2.0PPM	CAL4	03/20/17 11:45		OK
5	5.0PPM	5.0PPM	CAL5	03/20/17 11:59		OK
6	10.0PPM	10.0PPM	CAL6	03/20/17 12:13		OK
7	20.0PPM	20.0PPM	CAL7	03/20/17 12:27		OK
8	ICV1	ICV1	ICV	03/20/17 12:42		OK
9	ICB1	ICB1	ICB	03/20/17 12:54		OK
10	CCV1	CCV1	CCV	04/17/17 10:45		OK
11	CCB1	CCB1	CCB	04/17/17 10:58		OK
12	LB86917BLW	LB86917BLW	MB	04/17/17 11:50		OK
13	LB86917BSW	LB86917BSW	LCS	04/17/17 12:17		OK
14	I2699-02	MW-3I	SAM	04/17/17 13:08		OK
15	I2699-02DUP	MW-3IDUP	DUP	04/17/17 13:24		OK
16	I2699-01	MW-6I	SAM	04/17/17 13:46	High	Dilution
17	I2699-03	MW-12	SAM	04/17/17 14:06		OK
18	I2699-04	DUP	SAM	04/17/17 14:41		OK
19	I2699-01DL	MW-6IDL	SAM	04/17/17 15:01	200X dilution	Confirms
20	I2699-02MS	MW-3IMS	MS	04/17/17 16:31		OK
21	I2699-02MSD	MW-3IMSD	MSD	04/17/17 16:50		OK



Instrument ID: TOC

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Daily Analysis Runlog For Sequence/QC Batch ID # LB86917

Review By		Review On				
SubDirectory		LB86917		Test : TOC		
STD. NAME		STD REF.#				
ICAL Standard		WP53623,WP53624,WP53625,WP53626,WP53627,WP53628,WP53629,WP53630,WP53631				
ICV Standard		WP53632				
CCV Standard		WP53630				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP53632				
Chk Standard		WP53260				
22	CCV2	CCV2	CCV	04/17/17 17:34		OK
23	CCB2	CCB2	CCB	04/17/17 17:47		OK