



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86054

SDG No.: LB86054

Contract: _____ Lab Code: CHEM

Case No.: LB86054

SAS No.: LB86054

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	TKN	5.1	5	102	0	80 - 120		02/27/2017	14:17	LB86054
CCV2	TKN	5.2	5	104	0	80 - 120		02/27/2017	14:18	LB86054



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86054

SDG No.: LB86054

Contract:

Lab Code: CHEM

Case No.: LB86054

SAS No.: LB86054

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.11	+/-0.5	J		0.5		02/27/2017	14:17	LB86054

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.12	+/-0.5	J			0.5	02/27/2017	14:17	LB86054
CCB2	TKN	0.14	+/-0.5	J			0.5	02/27/2017	14:18	LB86054



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86054

SDG No.: LB86054

Contract: Lab Code: CHEM

Case No.: LB86054

SAS No.: LB86054

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



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

Report of Analysis

Client:		Date Collected:	2/23/2017 12:00:00 AM
Project:	LB86054	Date Received:	2/23/2017 12:00:00 AM
Client Sample ID:	2AVE-02	SDG No.:	LB86054
Lab Sample ID:	I1979-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2.1		1	0.096		0.5	mg/L	02/24/2017	02/27/2017	SM4500 N Org



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

Report of Analysis

Client:		Date Collected:	2/23/2017 12:00:00 AM
Project:	LB86054	Date Received:	2/23/2017 12:00:00 AM
Client Sample ID:	2AVE-02	SDG No.:	LB86054
Lab Sample ID:	I1979-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86054

SDG No.: LB86054

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB97171BL		WATER		Batch Number:		PB97171		Prep Date:	02/24/2017	
	TKN	0.3	<0.5	J		0.5		02/27/2017	14:17	LB86054



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86054 level: low sdg no.: LB86054
contract: lab code: CHEM case no.: LB86054 sas no.: LB86054
matrix: WATER sample id: I1979-01 client id: 2AVE-02MS
Percent Solids for Sample: 0 Spiked ID: I1979-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/L	75 - 125	6.5		2.1		5	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86054 level: low sdg no.: LB86054
contract: lab code: CHEM case no.: LB86054 sas no.: LB86054
matrix: WATER sample id: I1979-01 client id: 2AVE-02MSD
Percent Solids for Sample: 0 Spiked ID: I1979-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/L	75 - 125	6.5		2.1		5	88		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86054 **Level:** LOW **SDG No.:** LB86054
Contract: **Lab Code:** CHEM **Case No.:** LB86054 **SAS No.:** LB86054
Matrix: WATER **Sample ID:** I1979-01 **Client ID:** 2AVE-02DUP
Percent Solids for Sample: 0 **Duplicate ID** I1979-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	2.1		2.1		0		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86054 Level: LOW SDG No.: LB86054
Contract: _____ Lab Code: CHEM Case No.: LB86054 SAS No.: LB86054
Matrix: WATER Sample ID: I1979-01MS Client ID: 2AVE-02MSD
Percent Solids for Sample: 0 Duplicate ID I1979-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	6.5		6.5		0		

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



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86054

SDG No.: LB86054

Contract:

Lab Code: CHEM

Case No.: LB86054

SAS No.: LB86054

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97171BS TKN	mg/L	5	5.1		102	80 - 120	