

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	TKN	5.4	5	108	0	80 - 120		04/19/2017	13:07	LB86962



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86962

SDG No.: LB86962

Contract: _____ Lab Code: CHEM

Case No.: LB86962

SAS No.: LB86962

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	5.2	5	104	0	80 - 120		04/19/2017	13:07	LB86962
CCV2	TKN	5.2	5	104	0	80 - 120		04/19/2017	13:18	LB86962
CCV3	TKN	5.2	5	104	0	80 - 120		04/19/2017	13:18	LB86962



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86962

SDG No.: LB86962

Contract:

Lab Code: CHEM

Case No.: LB86962

SAS No.: LB86962

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.084	+/-0.5	U			0.5	04/19/2017	13:07	LB86962



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86962

SDG No.: LB86962

Contract:

Lab Code: CHEM

Case No.: LB86962

SAS No.: LB86962

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.078	+/-0.5	U			0.5	04/19/2017	13:07	LB86962
CCB2	TKN	0.08	+/-0.5	U			0.5	04/19/2017	13:18	LB86962
CCB3	TKN	0.081	+/-0.5	U			0.5	04/19/2017	13:21	LB86962



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86962

SDG No.: LB86962

Contract: Lab Code: CHEM

Case No.: LB86962

SAS No.: LB86962

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

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW16A	SDG No.:	LB86962
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.
	TKN	0.44	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW13	SDG No.:	LB86962
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.
	TKN	0.56		1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW12	SDG No.:	LB86962
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.
	TKN	0.47	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW3	SDG No.:	LB86962
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.
	TKN	0.34	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW11	SDG No.:	LB86962
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.
	TKN	0.46	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW6	SDG No.:	LB86962
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.
	TKN	0.48	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW7	SDG No.:	LB86962
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.
	TKN	0.89		1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW5	SDG No.:	LB86962
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.
	TKN	0.18	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW9	SDG No.:	LB86962
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.
	TKN	0.45	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW4	SDG No.:	LB86962
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.
	TKN	0.34	J	1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW17	SDG No.:	LB86962
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.
	TKN	0.6		1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB86962
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.
	TKN	0.64		1	0.096		0.5	mg/L	04/17/2017	04/19/2017	SM4500 N Org



Report of Analysis

Client:		Date Collected:	4/14/2017 12:00:00 AM
Project:	LB86962	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB86962
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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86962

SDG No.: LB86962

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
PB98282BL	TKN	0.084	<0.5	U						
		WATER		Batch Number:		PB98282		Prep Date:	04/17/2017	
						0.5		04/19/2017	13:07	LB86962



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86962 level: low sdg no.: LB86962
contract: lab code: CHEM case no.: LB86962 sas no.: LB86962
matrix: WATER sample id: I2710-01 client id: SW16AMS
Percent Solids for Sample: 0 Spiked ID: I2710-01MS 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	5.7		0.44	J	5	105		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86962 level: low sdg no.: LB86962
contract: lab code: CHEM case no.: LB86962 sas no.: LB86962
matrix: WATER sample id: I2710-01 client id: SW16AMSD
Percent Solids for Sample: 0 Spiked ID: I2710-01MSD 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	5.7		0.44	J	5	105		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86962 **Level:** LOW **SDG No.:** LB86962
Contract: **Lab Code:** CHEM **Case No.:** LB86962 **SAS No.:** LB86962
Matrix: WATER **Sample ID:** I2710-01 **Client ID:** SW16ADUP
Percent Solids for Sample: 0 **Duplicate ID** I2710-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.44	J	0.45	J	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86962 **Level:** LOW **SDG No.:** LB86962
Contract: **Lab Code:** CHEM **Case No.:** LB86962 **SAS No.:** LB86962
Matrix: WATER **Sample ID:** I2710-01MS **Client ID:** SW16AMSD
Percent Solids for Sample: 0 **Duplicate ID** I2710-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.7		5.7		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86962

SDG No.: LB86962

Contract:

Lab Code: CHEM

Case No.: LB86962

SAS No.: LB86962

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98282BS TKN	mg/L	5	5.5		110	80 - 120	