



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86713

SDG No.: LB86713

Contract: _____ Lab Code: CHEM

Case No.: LB86713

SAS No.: LB86713

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	5.5	5	110	0	80 - 120		04/05/2017	10:59	LB86713
CCV2	TKN	5.6	5	112	0	80 - 120		04/05/2017	10:59	LB86713



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86713

SDG No.: LB86713

Contract:

Lab Code: CHEM

Case No.: LB86713

SAS No.: LB86713

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.33	+/-0.5	J			0.5	04/05/2017	10:59	LB86713



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86713

SDG No.: LB86713

Contract:

Lab Code: CHEM

Case No.: LB86713

SAS No.: LB86713

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.31	+/-0.5	J			0.5	04/05/2017	10:59	LB86713
CCB2	TKN	0.33	+/-0.5	J			0.5	04/05/2017	11:02	LB86713



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86713

SDG No.: LB86713

Contract: Lab Code: CHEM

Case No.: LB86713

SAS No.: LB86713

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:	4/3/2017 12:00:00 AM
Project:	LB86713	Date Received:	4/3/2017 12:00:00 AM
Client Sample ID:	2AVE-03	SDG No.:	LB86713
Lab Sample ID:	I2518-01	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	0.77		1	0.096		0.5	mg/L	04/04/2017	04/05/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/4/2017 12:00:00 AM
Project:	LB86713	Date Received:	4/4/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB86713
Lab Sample ID:	I2527-01	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	0.66		1	0.096		0.5	mg/L	04/04/2017	04/05/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	4/4/2017 12:00:00 AM
Project:	LB86713	Date Received:	4/4/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB86713
Lab Sample ID:	I2527-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

Client: LB86713

SDG No.: LB86713

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
PB98030BL	TKN	0.32	<0.5	J						
		WATER		Batch Number:		PB98030		Prep Date:	04/04/2017	
						0.5		04/05/2017	10:59	LB86713



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MATRIX SPIKE SUMMARY

client: LB86713 level: low sdg no.: LB86713
contract: lab code: CHEM case no.: LB86713 sas no.: LB86713
matrix: WATER sample id: I2518-01 client id: 2AVE-03MS
Percent Solids for Sample: 0 Spiked ID: I2518-01MS 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	5.6		0.77		5	97		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86713 level: low sdg no.: LB86713
contract: lab code: CHEM case no.: LB86713 sas no.: LB86713
matrix: WATER sample id: I2518-01 client id: 2AVE-03MSD
Percent Solids for Sample: 0 Spiked ID: I2518-01MSD 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	5.6		0.77		5	97		

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DUPLICATE SAMPLE SUMMARY

Client: LB86713 **Level:** LOW **SDG No.:** LB86713
Contract: **Lab Code:** CHEM **Case No.:** LB86713 **SAS No.:** LB86713
Matrix: WATER **Sample ID:** I2518-01 **Client ID:** 2AVE-03DUP
Percent Solids for Sample: 0 **Duplicate ID** I2518-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.77		0.77		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86713 **Level:** LOW **SDG No.:** LB86713
Contract: **Lab Code:** CHEM **Case No.:** LB86713 **SAS No.:** LB86713
Matrix: WATER **Sample ID:** I2518-01MS **Client ID:** 2AVE-03MSD
Percent Solids for Sample: 0 **Duplicate ID** I2518-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.6		5.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86713

SDG No.: LB86713

Contract:

Lab Code: CHEM

Case No.: LB86713

SAS No.: LB86713

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98030BS TKN	mg/L	5	5.2		104	80 - 120	