

Daily Analysis Runlog For Sequence/QC Batch ID # LB87946

Review By		Review On				
SubDirectory		LB87946		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		WP55382				
CCV Standard		WP55384				
ICSA Standard		WP55383				
CRI Standard		N/A				
LCS Standard		WP55385				
Chk Standard		WP54309,WP55006,WP66095,WP55096				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	06/08/17 11:17		OK
2	1.0PPM	1.0PPM	CAL2	06/08/17 11:17		OK
3	2.5PPM	2.5PPM	CAL3	06/08/17 11:17		OK
4	5.0PPM	5.0PPM	CAL4	06/08/17 11:17		OK
5	6.7PPM	6.7PPM	CAL5	06/08/17 11:17		OK
6	10.0PPM	10.0PPM	CAL6	06/08/17 11:17		OK
7	ICV1	ICV1	ICV	06/08/17 11:50		OK
8	ICB1	ICB1	ICB	06/08/17 11:50		OK
9	CCV1	CCV1	CCV	06/08/17 11:50		OK
10	CCB1	CCB1	CCB	06/08/17 11:50		OK
11	PB99552BL	PB99552BL	MB	06/08/17 11:50		OK
12	PB99552BS	PB99552BS	LCS	06/08/17 11:50		OK
13	I3469-09	TW-1-20170603	SAM	06/08/17 11:50		OK
14	I3469-09DUP	TW-1-20170603DUP	DUP	06/08/17 11:50		OK
15	I3469-09MS	TW-1-20170603MS	MS	06/08/17 11:51		OK
16	I3469-09MSD	TW-1-20170603MSD	MSD	06/08/17 11:51		OK
17	I3480-01	DSN001	SAM	06/08/17 11:51		OK
18	CCV2	CCV2	CCV	06/08/17 11:51		OK
19	CCB2	CCB2	CCB	06/08/17 11:54		OK



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87946	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	TW-1-20170603	SDG No.:	LB87946
Lab Sample ID:	I3469-09	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	2.6		1	0.096		0.5	mg/L	06/07/2017	06/08/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87946	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB87946
Lab Sample ID:	I3480-01	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	0.7		1	0.096		0.5	mg/L	06/07/2017	06/08/2017	SM4500 N Org



Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87946	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB87946
Lab Sample ID:	I3480-01	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87946

SDG No.: LB87946

Contract: _____ Lab Code: CHEM

Case No.: LB87946

SAS No.: LB87946

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		06/08/2017	11:50	LB87946
CCV2	TKN	5.2	5	104	0	80 - 120		06/08/2017	11:51	LB87946



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87946

SDG No.: LB87946

Contract:

Lab Code: CHEM

Case No.: LB87946

SAS No.: LB87946

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.18	+/-0.5	J		0.5		06/08/2017	11:50	LB87946



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87946

SDG No.: LB87946

Contract:

Lab Code: CHEM

Case No.: LB87946

SAS No.: LB87946

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.18	+/-0.5	J			0.5	06/08/2017	11:50	LB87946
CCB2	TKN	0.18	+/-0.5	J			0.5	06/08/2017	11:54	LB87946



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87946

SDG No.: LB87946

Contract: Lab Code: CHEM

Case No.: LB87946

SAS No.: LB87946

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

Client: LB87946

SDG No.: LB87946

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
PB99552BL	TKN	WATER 0.19	<0.5	Batch Number: J		PB99552 0.5		Prep Date: 06/08/2017	06/07/2017 11:50	LB87946



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- 5a -
MATRIX SPIKE SUMMARY

client: LB87946 level: low sdg no.: LB87946
contract: lab code: CHEM case no.: LB87946 sas no.: LB87946
matrix: WATER sample id: I3469-09 client id: TW-1-20170603MS
Percent Solids for Sample: 0 Spiked ID: I3469-09MS 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	7.5		2.6		5	98		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87946 level: low sdg no.: LB87946
contract: lab code: CHEM case no.: LB87946 sas no.: LB87946
matrix: WATER sample id: I3469-09 client id: TW-1-20170603MSD
Percent Solids for Sample: 0 Spiked ID: I3469-09MSD 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	7.5		2.6		5	98		

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DUPLICATE SAMPLE SUMMARY

Client: LB87946 **Level:** LOW **SDG No.:** LB87946
Contract: **Lab Code:** CHEM **Case No.:** LB87946 **SAS No.:** LB87946
Matrix: WATER **Sample ID:** I3469-09 **Client ID:** TW-1-20170603DUP
Percent Solids for Sample: 0 **Duplicate ID** I3469-09DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	2.6		2.7		4		

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DUPLICATE SAMPLE SUMMARY

Client: LB87946 **Level:** LOW **SDG No.:** LB87946
Contract: **Lab Code:** CHEM **Case No.:** LB87946 **SAS No.:** LB87946
Matrix: WATER **Sample ID:** I3469-09MS **Client ID:** TW-1-20170603MSD
Percent Solids for Sample: 0 **Duplicate ID** I3469-09MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	7.5		7.5		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87946

SDG No.: LB87946

Contract:

Lab Code: CHEM

Case No.: LB87946

SAS No.: LB87946

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99552BS TKN	mg/L	5	5.2		104	80 - 120	