

Daily Analysis Runlog For Sequence/QC Batch ID # LB91237

Review By		Review On				
SubDirectory		LB91237		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP59036				
ICV Standard		WP59038				
CCV Standard		WP59037				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59039				
Chk Standard		WP57031,WP59238,WP59101,WP59101				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	10/31/17 13:05		OK
2	1.0PPM	1.0PPM	CAL2	10/31/17 13:05		OK
3	2.5PPM	2.5PPM	CAL3	10/31/17 13:05		OK
4	5.0PPM	5.0PPM	CAL4	10/31/17 13:05		OK
5	6.7PPM	6.7PPM	CAL5	10/31/17 13:05		OK
6	10.0PPM	10.0PPM	CAL6	10/31/17 13:05		OK
7	ICV1	ICV1	ICV	10/31/17 13:56		OK
8	ICB1	ICB1	ICB	10/31/17 13:56		OK
9	CCV1	CCV1	CCV	10/31/17 13:56		OK
10	CCB1	CCB1	CCB	10/31/17 13:56		OK
11	PB103755BL	PB103755BL	MB	10/31/17 13:57		OK
12	PB103755BS	PB103755BS	LCS	10/31/17 13:57		OK
13	I6140-01	DSN001	SAM	10/31/17 13:57		OK
14	I6140-01DUP	DSN001DUP	DUP	10/31/17 13:57		OK
15	I6140-01MS	DSN001MS	MS	10/31/17 14:07		OK
16	I6140-01MSD	DSN001MSD	MSD	10/31/17 14:07		OK
17	I6179-01	SWL-17	SAM	10/31/17 14:07		OK
18	I6179-02	SW16A	SAM	10/31/17 14:07		OK
19	I6179-03	SW13	SAM	10/31/17 14:07		OK
20	I6179-04	SW12A	SAM	10/31/17 14:07		OK
21	CCV2	CCV2	CCV	10/31/17 14:07		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91237

Review By		Review On				
SubDirectory		LB91237		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP59036				
ICV Standard		WP59038				
CCV Standard		WP59037				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59039				
Chk Standard		WP57031,WP59238,WP59101,WP59101				
22	CCB2	CCB2	CCB	10/31/17 14:07		OK
23	I6179-05	SW3A	SAM	10/31/17 14:07		OK
24	I6179-06	SW11	SAM	10/31/17 14:07		OK
25	I6179-07	SW6	SAM	10/31/17 14:07		OK
26	I6179-08	SW7	SAM	10/31/17 14:07		OK
27	I6179-09	SW5	SAM	10/31/17 14:18		OK
28	I6179-10	SW9	SAM	10/31/17 14:18		OK
29	I6179-11	SW14	SAM	10/31/17 14:18		OK
30	I6199-01	MR-4	SAM	10/31/17 14:18		OK
31	I6199-02	B-5W	SAM	10/31/17 14:18		OK
32	I6199-03	B-6W	SAM	10/31/17 14:18		OK
33	CCV3	CCV3	CCV	10/31/17 14:18		OK
34	CCB3	CCB3	CCB	10/31/17 14:18		OK
35	DOC-1	DOC-1	LCS	10/31/17 14:18		OK
36	DOC-2	DOC-2	LCS	10/31/17 14:18		OK
37	DOC-3	DOC-3	LCS	10/31/17 14:18		OK
38	DOC-4	DOC-4	LCS	10/31/17 14:18		OK
39	CCV4	CCV4	CCV	10/31/17 14:23		OK
40	CCB4	CCB4	CCB	10/31/17 14:23		OK



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB91237
Lab Sample ID:	I6140-01	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	0.65		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SWL-17	SDG No.:	LB91237
Lab Sample ID:	I6179-01	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	0.63		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW16A	SDG No.:	LB91237
Lab Sample ID:	I6179-02	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	0.75		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW13	SDG No.:	LB91237
Lab Sample ID:	I6179-03	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	0.52		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW12A	SDG No.:	LB91237
Lab Sample ID:	I6179-04	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	0.58		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW3A	SDG No.:	LB91237
Lab Sample ID:	I6179-05	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	0.9		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW11	SDG No.:	LB91237
Lab Sample ID:	I6179-06	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	3.9		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW6	SDG No.:	LB91237
Lab Sample ID:	I6179-07	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	1		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW7	SDG No.:	LB91237
Lab Sample ID:	I6179-08	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	1.1		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW5	SDG No.:	LB91237
Lab Sample ID:	I6179-09	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	1.2		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW9	SDG No.:	LB91237
Lab Sample ID:	I6179-10	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	0.67		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB91237
Lab Sample ID:	I6179-11	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	0.57		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	MR-4	SDG No.:	LB91237
Lab Sample ID:	I6199-01	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	0.38	J	1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	B-5W	SDG No.:	LB91237
Lab Sample ID:	I6199-02	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	3.1		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	B-6W	SDG No.:	LB91237
Lab Sample ID:	I6199-03	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	8.7		1	0.096		0.5	mg/L	10/28/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91237	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	B-6W	SDG No.:	LB91237
Lab Sample ID:	I6199-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB91237

SDG No.: LB91237

Contract: _____

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

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	TKN	4.9	5	98	0	80 - 120		10/31/2017	13:56	LB91237



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91237

SDG No.: LB91237

Contract: _____ Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

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
CCV2	TKN	4.9	5	98	0	80 - 120		10/31/2017	14:07	LB91237
CCV3	TKN	5.1	5	102	0	80 - 120		10/31/2017	14:18	LB91237
CCV4	TKN	5.3	5	106	0	80 - 120		10/31/2017	14:23	LB91237



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91237 **SDG No.:** LB91237
Contract: **Lab Code:** CHEM **Case No.:** LB91237 **SAS No.:** LB91237

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.13	+/-0.5	J		0.5		10/31/2017	13:56	LB91237

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.13	+/-0.5	J			0.5	10/31/2017	13:56	LB91237



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91237

SDG No.: LB91237

Contract: _____

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB2	TKN	0.13	+/-0.5	J			0.5	10/31/2017	14:07	LB91237
CCB3	TKN	0.14	+/-0.5	J			0.5	10/31/2017	14:18	LB91237
CCB4	TKN	0.14	+/-0.5	J			0.5	10/31/2017	14:23	LB91237



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91237

SDG No.: LB91237

Contract: Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

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: LB91237

SDG No.: LB91237

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
PB103755BL	TKN	WATER 0.11	<0.5	Batch Number: J		PB103755 0.5		Prep Date: 10/31/2017	10/28/2017 13:57	LB91237



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91237 level: low sdg no.: LB91237
contract: lab code: CHEM case no.: LB91237 sas no.: LB91237
matrix: WATER sample id: I6140-01 client id: DSN001MS
Percent Solids for Sample: 0 Spiked ID: I6140-01MS 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		0.65		5	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91237 level: low sdg no.: LB91237
contract: lab code: CHEM case no.: LB91237 sas no.: LB91237
matrix: WATER sample id: I6140-01 client id: DSN001MSD
Percent Solids for Sample: 0 Spiked ID: I6140-01MSD 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	0.65		5	87		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91237 **Level:** LOW **SDG No.:** LB91237
Contract: **Lab Code:** CHEM **Case No.:** LB91237 **SAS No.:** LB91237
Matrix: WATER **Sample ID:** I6140-01 **Client ID:** DSN001DUP
Percent Solids for Sample: 0 **Duplicate ID** I6140-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.65		0.64		2		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91237 Level: LOW SDG No.: LB91237
Contract: _____ Lab Code: CHEM Case No.: LB91237 SAS No.: LB91237
Matrix: WATER Sample ID: I6140-01MS Client ID: DSN001MSD
Percent Solids for Sample: 0 Duplicate ID I6140-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5		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: LB91237

SDG No.: LB91237

Contract:

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-1 TKN	mg/L	5	4.9		98	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91237

SDG No.: LB91237

Contract:

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-2 TKN	mg/L	5	5.1		102	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91237

SDG No.: LB91237

Contract:

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-3 TKN	mg/L	5	4.8		96	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91237

SDG No.: LB91237

Contract:

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-4 TKN	mg/L	5	5.1		102	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91237

SDG No.: LB91237

Contract:

Lab Code: CHEM

Case No.: LB91237

SAS No.: LB91237

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103755BS TKN	mg/L	5	5.1		102	80 - 120	