

Daily Analysis Runlog For Sequence/QC Batch ID # LB93860

Review By		Review On				
SubDirectory		LB93860		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP62616				
ICV Standard		WP62618				
CCV Standard		WP62617				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62619				
Chk Standard		WP61582,WP62168,WP62169,WP62170				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	03/13/18 10:02		OK
2	1.0PPM	1.0PPM	CAL2	03/13/18 10:03		OK
3	2.5PPM	2.5PPM	CAL3	03/13/18 10:03		OK
4	5.0PPM	5.0PPM	CAL4	03/13/18 10:03		OK
5	6.7PPM	6.7PPM	CAL5	03/13/18 10:03		OK
6	10.0PPM	10.0PPM	CAL6	03/13/18 10:03		OK
7	ICV1	ICV1	ICV	03/13/18 11:17		OK
8	ICB1	ICB1	ICB	03/13/18 11:17		OK
9	CCV1	CCV1	CCV	03/13/18 11:17		OK
10	CCB1	CCB1	CCB	03/13/18 11:17		OK
11	PB107252BL	PB107252BL	MB	03/13/18 11:17		OK
12	PB107252BS	PB107252BS	LCS	03/13/18 11:17		OK
13	J1880-01	SAMPLE-F	SAM	03/13/18 11:17		OK
14	J1880-01DUP	SAMPLE-FDUP	DUP	03/13/18 11:17		OK
15	J1880-01MS	SAMPLE-FMS	MS	03/13/18 11:17		OK
16	J1880-01MSD	SAMPLE-FMSD	MSD	03/13/18 11:17		OK
17	PB107251BL	PB107251BL	MB	03/13/18 11:17		OK
18	PB107251BS	PB107251BS	LCS	03/13/18 11:17		OK
19	J1839-01	MW-1	SAM	03/13/18 11:27		OK
20	J1839-01DUP	MW-1DUP	DUP	03/13/18 11:27		OK
21	CCV2	CCV2	CCV	03/13/18 11:27		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP62616				
ICV Standard		WP62618				
CCV Standard		WP62617				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62619				
Chk Standard		WP61582,WP62168,WP62169,WP62170				
22	CCB2	CCB2	CCB	03/13/18 11:27		OK
23	J1839-01MS	MW-1MS	MS	03/13/18 11:27		OK
24	J1839-01MSD	MW-1MSD	MSD	03/13/18 11:27		OK
25	J1839-02	MW-3	SAM	03/13/18 11:27		OK
26	J1839-03	MW-4	SAM	03/13/18 11:27		OK
27	J1839-04	MW-2	SAM	03/13/18 11:27		OK
28	CCV3	CCV3	CCV	03/13/18 11:27		OK
29	CCB3	CCB3	CCB	03/13/18 11:27		OK



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/7/2018 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB93860
Lab Sample ID:	J1839-01	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	0.68		1	0.096		0.5	mg/L	03/12/2018	03/13/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/7/2018 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB93860
Lab Sample ID:	J1839-02	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	0.62		1	0.096		0.5	mg/L	03/12/2018	03/13/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/7/2018 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB93860
Lab Sample ID:	J1839-03	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	0.61		1	0.096		0.5	mg/L	03/12/2018	03/13/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/7/2018 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB93860
Lab Sample ID:	J1839-04	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	1.6		1	0.096		0.5	mg/L	03/12/2018	03/13/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	SAMPLE-F	SDG No.:	LB93860
Lab Sample ID:	J1880-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	55.3		1	4.8		25.2	mg/Kg	03/12/2018	03/13/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93860	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	SAMPLE-F	SDG No.:	LB93860
Lab Sample ID:	J1880-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.2

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: LB93860

SDG No.: LB93860

Contract: _____ Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	TKN	5.4	5	108		80 - 120		03/13/2018	11:17	LB93860
CCV2	TKN	5.2	5	104		80 - 120		03/13/2018	11:27	LB93860
CCV3	TKN	5.2	5	104		80 - 120		03/13/2018	11:27	LB93860



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93860

SDG No.: LB93860

Contract:

Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

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		03/13/2018	11:17	LB93860



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93860

SDG No.: LB93860

Contract:

Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.098	+/-0.5	J			0.5	03/13/2018	11:17	LB93860
CCB2	TKN	0.11	+/-0.5	J			0.5	03/13/2018	11:27	LB93860
CCB3	TKN	0.11	+/-0.5	J			0.5	03/13/2018	11:27	LB93860



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93860

SDG No.: LB93860

Contract: Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

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: LB93860

SDG No.: LB93860

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
PB107251BL	TKN	WATER		Batch Number:		PB107251		Prep Date:	03/12/2018	
		0.11	<0.5	J		0.5		03/13/2018	11:17	LB93860
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107252BL	TKN	SOLID		Batch Number:		PB107252		Prep Date:	03/12/2018	
		4.9	<24.5	J		24.5		03/13/2018	11:17	LB93860



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93860 level: low sdg no.: LB93860
contract: lab code: CHEM case no.: LB93860 sas no.: LB93860
matrix: WATER sample id: J1839-01 client id: MW-1MS
Percent Solids for Sample: 0 Spiked ID: J1839-01MS 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	5.8		0.68		5	102		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93860 level: low sdg no.: LB93860
contract: lab code: CHEM case no.: LB93860 sas no.: LB93860
matrix: WATER sample id: J1839-01 client id: MW-1MSD
Percent Solids for Sample: 0 Spiked ID: J1839-01MSD 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		0.68		5	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93860 level: low sdg no.: LB93860
contract: lab code: CHEM case no.: LB93860 sas no.: LB93860
matrix: Solid sample id: J1880-01 client id: SAMPLE-FMS
Percent Solids for Sample: 97.2 Spiked ID: J1880-01MS Percent Solids for Spike Sample: 97.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	379		55.3		250	129	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93860 level: low sdg no.: LB93860
contract: lab code: CHEM case no.: LB93860 sas no.: LB93860
matrix: Solid sample id: J1880-01 client id: SAMPLE-FMSD
Percent Solids for Sample: 97.2 Spiked ID: J1880-01MSD Percent Solids for Spike Sample: 97.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	375		55.3		250	128	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93860 **Level:** LOW **SDG No.:** LB93860
Contract: **Lab Code:** CHEM **Case No.:** LB93860 **SAS No.:** LB93860
Matrix: WATER **Sample ID:** J1839-01 **Client ID:** MW-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J1839-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.68		0.75		10		

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DUPLICATE SAMPLE SUMMARY

Client: LB93860 **Level:** LOW **SDG No.:** LB93860
Contract: **Lab Code:** CHEM **Case No.:** LB93860 **SAS No.:** LB93860
Matrix: WATER **Sample ID:** J1839-01MS **Client ID:** MW-1MSD
Percent Solids for Sample: 0 **Duplicate ID** J1839-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.8		5.7		2		

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DUPLICATE SAMPLE SUMMARY

Client: LB93860 **Level:** LOW **SDG No.:** LB93860
Contract: **Lab Code:** CHEM **Case No.:** LB93860 **SAS No.:** LB93860
Matrix: Solid **Sample ID:** J1880-01 **Client ID:** SAMPLE-FDUP
Percent Solids for Sample: 97.2 **Duplicate ID** J1880-01DUP **Percent Solids for Spike Sample:** 97.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	55.3		52.4		5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93860 **Level:** LOW **SDG No.:** LB93860
Contract: **Lab Code:** CHEM **Case No.:** LB93860 **SAS No.:** LB93860
Matrix: Solid **Sample ID:** J1880-01MS **Client ID:** SAMPLE-FMSD
Percent Solids for Sample: 97.2 **Duplicate ID** J1880-01MSD **Percent Solids for Spike Sample:** 97.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	379		375		1		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93860

SDG No.: LB93860

Contract:

Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107251BS TKN	mg/L	5	5		100	80 - 120	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93860

SDG No.: LB93860

Contract:

Lab Code: CHEM

Case No.: LB93860

SAS No.: LB93860

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107252BS TKN	mg/Kg	240	248		103.3	80 - 120	