

Daily Analysis Runlog For Sequence/QC Batch ID # LB94165

Review By		Review On				
SubDirectory		LB94165		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP63011				
ICV Standard		WP63013				
CCV Standard		WP63012				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP63014				
Chk Standard		WP61582,WP62824,WP62827,WP62828				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	03/27/18 09:55		OK
2	1.0PPM	1.0PPM	CAL2	03/27/18 09:55		OK
3	2.5PPM	2.5PPM	CAL3	03/27/18 09:55		OK
4	5.0PPM	5.0PPM	CAL4	03/27/18 09:55		OK
5	6.7PPM	6.7PPM	CAL5	03/27/18 09:55		OK
6	10.0PPM	10.0PPM	CAL6	03/27/18 09:55		OK
7	ICV1	ICV1	ICV	03/27/18 10:39		OK
8	ICB1	ICB1	ICB	03/27/18 10:39		OK
9	CCV1	CCV1	CCV	03/27/18 10:39		OK
10	CCB1	CCB1	CCB	03/27/18 10:39		OK
11	PB107641BL	PB107641BL	MB	03/27/18 10:39		OK
12	PB107641BS	PB107641BS	LCS	03/27/18 10:39		OK
13	J1161-01	LOD-MDL-SOIL-01-C	SAM	03/27/18 10:39		OK
14	J1161-03	MDL-SOIL-03-QT1-2	SAM	03/27/18 10:40		OK
15	PB107640BL	PB107640BL	MB	03/27/18 10:40		OK
16	PB107640BS	PB107640BS	LCS	03/27/18 10:40		OK
17	J1161-07	LOD-MDL-WATER-0	SAM	03/27/18 10:40		OK
18	J1161-09	MDL-WATER-03-QT1	SAM	03/27/18 10:40		OK
19	J2054-01	MW-02-20180323-DE	SAM	03/27/18 10:48		OK
20	J2054-01DUP	MW-02-20180323-DE	DUP	03/27/18 10:48		OK
21	CCV2	CCV2	CCV	03/27/18 10:48		OK

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SubDirectory		LB94165		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP63011				
ICV Standard		WP63013				
CCV Standard		WP63012				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP63014				
Chk Standard		WP61582,WP62824,WP62827,WP62828				
22	CCB2	CCB2	CCB	03/27/18 10:48		OK
23	J2054-01MS	MW-02-20180323-DE	MS	03/27/18 10:48		OK
24	J2054-01MSD	MW-02-20180323-DE	MSD	03/27/18 10:48		OK
25	CCV3	CCV3	CCV	03/27/18 10:48		OK
26	CCB3	CCB3	CCB	03/27/18 10:48		OK



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94165	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2018	SDG No.:	LB94165
Lab Sample ID:	J1161-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	23	J	1	4.7		24.5	mg/Kg	03/26/2018	03/27/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94165	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-SOIL-03-QT1-2018	SDG No.:	LB94165
Lab Sample ID:	J1161-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	22.4	J	1	4.7		24.3	mg/Kg	03/26/2018	03/27/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94165	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT1-2018	SDG No.:	LB94165
Lab Sample ID:	J1161-07	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	0.47	J	1	0.096		0.5	mg/L	03/26/2018	03/27/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB94165	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB94165
Lab Sample ID:	J1161-09	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	0.44	J	1	0.096		0.5	mg/L	03/26/2018	03/27/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94165	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	MW-02-20180323-DEP	SDG No.:	LB94165
Lab Sample ID:	J2054-01	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	6.5		1	0.096		0.5	mg/L	03/26/2018	03/27/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94165	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	MW-02-20180323-DEP	SDG No.:	LB94165
Lab Sample ID:	J2054-01	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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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94165

SDG No.: LB94165

Contract: _____ Lab Code: CHEM

Case No.: LB94165

SAS No.: LB94165

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
ICV1	TKN	5.5	5	110		80 - 120		03/27/2018	10:39	LB94165



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94165

SDG No.: LB94165

Contract: _____ Lab Code: CHEM

Case No.: LB94165

SAS No.: LB94165

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	5.6	5	112		80 - 120		03/27/2018	10:39	LB94165
CCV2	TKN	6	5	120		80 - 120		03/27/2018	10:48	LB94165
CCV3	TKN	5.5	5	110		80 - 120		03/27/2018	10:48	LB94165



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94165 **SDG No.:** LB94165
Contract: **Lab Code:** CHEM **Case No.:** LB94165 **SAS No.:** LB94165

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.077	+/-0.5	U		0.5		03/27/2018	10:39	LB94165

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.077	+/-0.5	U			0.5	03/27/2018	10:39	LB94165
CCB2	TKN	0.17	+/-0.5	J			0.5	03/27/2018	10:48	LB94165
CCB3	TKN	0.084	+/-0.5	U			0.5	03/27/2018	10:48	LB94165



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94165

SDG No.: LB94165

Contract: Lab Code: CHEM

Case No.: LB94165

SAS No.: LB94165

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: LB94165

SDG No.: LB94165

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
PB107640BL	TKN	WATER		Batch Number:		PB107640		Prep Date:	03/26/2018	
		0.075	<0.5	U		0.5		03/27/2018	10:40	LB94165
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107641BL	TKN	SOLID		Batch Number:		PB107641		Prep Date:	03/26/2018	
		3.8	<24.5	U		24.5		03/27/2018	10:39	LB94165



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- 5a -
MATRIX SPIKE SUMMARY

client: LB94165 level: low sdg no.: LB94165
contract: lab code: CHEM case no.: LB94165 sas no.: LB94165
matrix: WATER sample id: J2054-01 client id: MW-02-20180323-DEPMS
Percent Solids for Sample: 0 Spiked ID: J2054-01MS 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	12.6	OR	6.5		5	122		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94165 level: low sdg no.: LB94165
contract: lab code: CHEM case no.: LB94165 sas no.: LB94165
matrix: WATER sample id: J2054-01 client id: MW-02-20180323-DEPMSD
Percent Solids for Sample: 0 Spiked ID: J2054-01MSD 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	12.6	OR	6.5		5	122		

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DUPLICATE SAMPLE SUMMARY

Client: LB94165 **Level:** LOW **SDG No.:** LB94165
Contract: **Lab Code:** CHEM **Case No.:** LB94165 **SAS No.:** LB94165
Matrix: WATER **Sample ID:** J2054-01 **Client ID:** MW-02-20180323-DEPDUP
Percent Solids for Sample: 0 **Duplicate ID** J2054-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	6.5		6.5		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB94165 **Level:** LOW **SDG No.:** LB94165
Contract: **Lab Code:** CHEM **Case No.:** LB94165 **SAS No.:** LB94165
Matrix: WATER **Sample ID:** J2054-01MS **Client ID:** MW-02-20180323-DEPMSD
Percent Solids for Sample: 0 **Duplicate ID** J2054-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	12.6	OR	12.6	OR	0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94165

SDG No.: LB94165

Contract:

Lab Code: CHEM

Case No.: LB94165

SAS No.: LB94165

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107640BS TKN	mg/L	5	5.8		116	80 - 120	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107641BS							
TKN	mg/Kg	240	272		113.3	80 - 120	