

Daily Analysis Runlog For Sequence/QC Batch ID # LB91116

Review By		Review On				
SubDirectory		LB91116		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		N/A				
Chk Standard		WP59101,WP59102,WP58272,WP57031				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	10/26/17 09:38		OK
2	1.0PPM	1.0PPM	CAL2	10/26/17 09:39		OK
3	2.5PPM	2.5PPM	CAL3	10/26/17 09:39		OK
4	5.0PPM	5.0PPM	CAL4	10/26/17 09:39		OK
5	6.7PPM	6.7PPM	CAL5	10/26/17 09:39		OK
6	10.0PPM	10.0PPM	CAL6	10/26/17 09:39		OK
7	ICV1	ICV1	ICV	10/26/17 10:17		OK
8	ICB1	ICB1	ICB	10/26/17 10:17		OK
9	CCV1	CCV1	CCV	10/26/17 10:17		OK
10	CCB1	CCB1	CCB	10/26/17 10:17		OK
11	PB103605BL	PB103605BL	MB	10/26/17 10:17		OK
12	PB103605BS	PB103605BS	LCS	10/26/17 10:17		OK
13	I6024-25	TWP-02	SAM	10/26/17 10:28		OK
14	I6024-25DUP	TWP-02DUP	DUP	10/26/17 10:28		OK
15	I6024-25MS	TWP-02MS	MS	10/26/17 10:28		OK
16	I6024-25MSD	TWP-02MSD	MSD	10/26/17 10:28		OK
17	I6024-26	TWP-13	SAM	10/26/17 10:28		OK
18	PB103608BL	PB103608BL	MB	10/26/17 10:28		OK
19	PB103608BS	PB103608BS	LCS	10/26/17 10:28		OK
20	I6095-01	SAMPLE-A	SAM	10/26/17 10:28		OK
21	CCV2	CCV2	CCV	10/26/17 10:28		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP59036				
ICV Standard		WP59038				
CCV Standard		WP59037				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59101,WP59102,WP58272,WP57031				
22	CCB2	CCB2	CCB	10/26/17 10:28		OK
23	I6095-01DUP	SAMPLE-ADUP	DUP	10/26/17 10:28		OK
24	I6095-01MS	SAMPLE-AMS	MS	10/26/17 10:28		OK
25	I6095-01MSD	SAMPLE-AMSD	MSD	10/26/17 10:34		OK
26	I6095-02	SAMPLE-B	SAM	10/26/17 10:34		OK
27	CCV3	CCV3	CCV	10/26/17 10:34		OK
28	CCB3	CCB3	CCB	10/26/17 10:34		OK



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91116	Date Received:	10/19/2017 12:00:00 AM
Client Sample ID:	TWP-02	SDG No.:	LB91116
Lab Sample ID:	I6024-25	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	0.53		1	0.096		0.5	mg/L	10/24/2017	10/26/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91116	Date Received:	10/19/2017 12:00:00 AM
Client Sample ID:	TWP-13	SDG No.:	LB91116
Lab Sample ID:	I6024-26	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	0.26	J	1	0.096		0.5	mg/L	10/24/2017	10/26/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB91116	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	SAMPLE-A	SDG No.:	LB91116
Lab Sample ID:	I6095-01	Matrix:	Solid
Level (low/med):	low	% Solid:	98.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	17.1	J	1	4.8		24.7	mg/Kg	10/24/2017	10/26/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB91116	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	SAMPLE-B	SDG No.:	LB91116
Lab Sample ID:	I6095-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	21.1	J	1	5		25.8	mg/Kg	10/24/2017	10/26/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB91116	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	SAMPLE-B	SDG No.:	LB91116
Lab Sample ID:	I6095-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

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: LB91116

SDG No.: LB91116

Contract: _____ Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

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	5.2	5	104	0	80 - 120		10/26/2017	10:17	LB91116



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91116

SDG No.: LB91116

Contract: _____ Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

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		10/26/2017	10:17	LB91116
CCV2	TKN	5.2	5	104	0	80 - 120		10/26/2017	10:28	LB91116
CCV3	TKN	5.3	5	106	0	80 - 120		10/26/2017	10:34	LB91116



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91116

SDG No.: LB91116

Contract:

Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.16	+/-0.5	J		0.5		10/26/2017	10:17	LB911116

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.16	+/-0.5	J			0.5	10/26/2017	10:17	LB911116
CCB2	TKN	0.17	+/-0.5	J			0.5	10/26/2017	10:28	LB911116
CCB3	TKN	0.17	+/-0.5	J			0.5	10/26/2017	10:34	LB911116



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91116

SDG No.: LB91116

Contract: _____

Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

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: LB91116

SDG No.: LB91116

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
PB103605BL	TKN	WATER		Batch Number:		PB103605		Prep Date:	10/24/2017	
		0.16	<0.5	J		0.5		10/26/2017	10:17	LB91116
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB103608BL	TKN	SOLID		Batch Number:		PB103608		Prep Date:	10/24/2017	
		8.2	<25	J		25		10/26/2017	10:28	LB91116



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91116 level: low sdg no.: LB91116
contract: lab code: CHEM case no.: LB91116 sas no.: LB91116
matrix: WATER sample id: I6024-25 client id: TWP-02MS
Percent Solids for Sample: 0 Spiked ID: I6024-25MS 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		0.53		5	101		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91116 level: low sdg no.: LB91116
contract: lab code: CHEM case no.: LB91116 sas no.: LB91116
matrix: WATER sample id: I6024-25 client id: TWP-02MSD
Percent Solids for Sample: 0 Spiked ID: I6024-25MSD 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	5.3		0.53		5	95		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91116 level: low sdg no.: LB91116
contract: lab code: CHEM case no.: LB91116 sas no.: LB91116
matrix: Solid sample id: I6095-01 client id: SAMPLE-AMS
Percent Solids for Sample: 98.1 Spiked ID: I6095-01MS Percent Solids for Spike Sample: 98.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	248		17.1	J	250	92		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91116 level: low sdg no.: LB91116
contract: lab code: CHEM case no.: LB91116 sas no.: LB91116
matrix: Solid sample id: I6095-01 client id: SAMPLE-AMSD
Percent Solids for Sample: 98.1 Spiked ID: I6095-01MSD Percent Solids for Spike Sample: 98.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	270		17.1	J	250	101		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91116 **Level:** LOW **SDG No.:** LB91116
Contract: **Lab Code:** CHEM **Case No.:** LB91116 **SAS No.:** LB91116
Matrix: WATER **Sample ID:** I6024-25 **Client ID:** TWP-02DUP
Percent Solids for Sample: 0 **Duplicate ID** I6024-25DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.53		0.53		0		



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DUPLICATE SAMPLE SUMMARY

Client: LB91116 Level: LOW SDG No.: LB91116
Contract: _____ Lab Code: CHEM Case No.: LB91116 SAS No.: LB91116
Matrix: WATER Sample ID: I6024-25MS Client ID: TWP-02MSD
Percent Solids for Sample: 0 Duplicate ID I6024-25MSD 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		5.3		6		

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91116 **Level:** LOW **SDG No.:** LB91116
Contract: **Lab Code:** CHEM **Case No.:** LB91116 **SAS No.:** LB91116
Matrix: Solid **Sample ID:** I6095-01 **Client ID:** SAMPLE-ADUP
Percent Solids for Sample: 98.1 **Duplicate ID** I6095-01DUP **Percent Solids for Spike Sample:** 98.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	17.1	J	17.4	J	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91116 **Level:** LOW **SDG No.:** LB91116
Contract: **Lab Code:** CHEM **Case No.:** LB91116 **SAS No.:** LB91116
Matrix: Solid **Sample ID:** I6095-01MS **Client ID:** SAMPLE-AMSD
Percent Solids for Sample: 98.1 **Duplicate ID** I6095-01MSD **Percent Solids for Spike Sample:** 98.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	248		270		8		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91116

SDG No.: LB91116

Contract:

Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103605BS TKN	mg/L	5	5		100	80 - 120	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91116

SDG No.: LB91116

Contract:

Lab Code: CHEM

Case No.: LB91116

SAS No.: LB91116

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103608BS TKN	mg/Kg	240	241		100.4	80 - 120	