

Daily Analysis Runlog For Sequence/QC Batch ID # LB92076

Review By		Review On				
SubDirectory		LB92076		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP60117				
ICV Standard		WP60119				
CCV Standard		WP60118				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60120				
Chk Standard		WP57031,WP60149,WP59925,WP59926				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	12/11/17 09:00		OK
2	1.0PPM	1.0PPM	CAL2	12/11/17 09:00		OK
3	2.5PPM	2.5PPM	CAL3	12/11/17 09:00		OK
4	5.0PPM	5.0PPM	CAL4	12/11/17 09:00		OK
5	6.7PPM	6.7PPM	CAL5	12/11/17 09:00		OK
6	10.0PPM	10.0PPM	CAL6	12/11/17 09:00		OK
7	ICV1	ICV1	ICV	12/11/17 09:40		OK
8	ICB1	ICB1	ICB	12/11/17 09:40		OK
9	CCV1	CCV1	CCV	12/11/17 09:40		OK
10	CCB1	CCB1	CCB	12/11/17 09:40		OK
11	PB104862BL	PB104862BL	MB	12/11/17 09:40		OK
12	PB104862BS	PB104862BS	LCS	12/11/17 09:40		OK
13	I6766-01	WQ-1	SAM	12/11/17 09:40		OK
14	I6766-01DUP	WQ-1DUP	DUP	12/11/17 09:40		OK
15	I6766-01MS	WQ-1MS	MS	12/11/17 09:50		OK
16	I6766-01MSD	WQ-1MSD	MSD	12/11/17 09:50		OK
17	I6766-02	WQ-2	SAM	12/11/17 09:50		OK
18	I6766-03	WQ-3	SAM	12/11/17 09:50		OK
19	I6766-04	WQ-4	SAM	12/11/17 09:50		OK
20	I6766-05	WQ-5	SAM	12/11/17 09:50		OK
21	CCV2	CCV2	CCV	12/11/17 09:51		OK

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SubDirectory		LB92076		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP60117				
ICV Standard		WP60119				
CCV Standard		WP60118				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60120				
Chk Standard		WP57031,WP60149,WP59925,WP59926				
22	CCB2	CCB2	CCB	12/11/17 09:51		OK
23	I6766-06	WQ-7	SAM	12/11/17 09:51		OK
24	I6766-07	WQ-1W	SAM	12/11/17 09:51		OK
25	I6766-08	WQ-2W	SAM	12/11/17 09:51		OK
26	I6766-09	WQ-3W	SAM	12/11/17 09:51		OK
27	I6766-10	WQ-4W	SAM	12/11/17 09:58		OK
28	I6766-11	WQ-5W	SAM	12/11/17 09:58		OK
29	I6766-12	WQ-7W	SAM	12/11/17 09:58		OK
30	CCV3	CCV3	CCV	12/11/17 09:58		OK
31	CCB3	CCB3	CCB	12/11/17 09:58		OK



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-1	SDG No.:	LB92076
Lab Sample ID:	I6766-01	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	0.78		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-2	SDG No.:	LB92076
Lab Sample ID:	I6766-02	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	0.42	J	1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-3	SDG No.:	LB92076
Lab Sample ID:	I6766-03	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	1.1		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-4	SDG No.:	LB92076
Lab Sample ID:	I6766-04	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	0.65		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-5	SDG No.:	LB92076
Lab Sample ID:	I6766-05	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	0.75		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-7	SDG No.:	LB92076
Lab Sample ID:	I6766-06	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	0.5		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-1W	SDG No.:	LB92076
Lab Sample ID:	I6766-07	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	0.43	J	1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-2W	SDG No.:	LB92076
Lab Sample ID:	I6766-08	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	0.48	J	1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-3W	SDG No.:	LB92076
Lab Sample ID:	I6766-09	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	0.59		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-4W	SDG No.:	LB92076
Lab Sample ID:	I6766-10	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	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-5W	SDG No.:	LB92076
Lab Sample ID:	I6766-11	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	1.1		1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-7W	SDG No.:	LB92076
Lab Sample ID:	I6766-12	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	0.45	J	1	0.096		0.5	mg/L	12/08/2017	12/11/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92076	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	WQ-7W	SDG No.:	LB92076
Lab Sample ID:	I6766-12	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: LB92076

SDG No.: LB92076

Contract: _____

Lab Code: CHEM

Case No.: LB92076

SAS No.: LB92076

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	4.7	5	94	0	80 - 120		12/11/2017	09:40	LB92076



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92076

SDG No.: LB92076

Contract: _____ Lab Code: CHEM

Case No.: LB92076

SAS No.: LB92076

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	4.9	5	98	0	80 - 120		12/11/2017	09:40	LB92076
CCV2	TKN	5	5	100	0	80 - 120		12/11/2017	09:51	LB92076
CCV3	TKN	5	5	100	0	80 - 120		12/11/2017	09:58	LB92076



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92076

SDG No.: LB92076

Contract:

Lab Code: CHEM

Case No.: LB92076

SAS No.: LB92076

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.14	+/-0.5	J			0.5	12/11/2017	09:40	LB92076

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.14	+/-0.5	J		0.5		12/11/2017	09:40	LB92076
CCB2	TKN	0.15	+/-0.5	J		0.5		12/11/2017	09:51	LB92076
CCB3	TKN	0.16	+/-0.5	J		0.5		12/11/2017	09:58	LB92076



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92076

SDG No.: LB92076

Contract: Lab Code: CHEM

Case No.: LB92076

SAS No.: LB92076

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: LB92076

SDG No.: LB92076

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
PB104862BL		WATER		Batch Number:		PB104862		Prep Date:	12/08/2017	
	TKN	0.14	<0.5	J		0.5		12/11/2017	09:40	LB92076



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92076 level: low sdg no.: LB92076
contract: lab code: CHEM case no.: LB92076 sas no.: LB92076
matrix: WATER sample id: I6766-01 client id: WQ-1MS
Percent Solids for Sample: 0 Spiked ID: I6766-01MS 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	5.2		0.78		5	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92076 level: low sdg no.: LB92076
contract: lab code: CHEM case no.: LB92076 sas no.: LB92076
matrix: WATER sample id: I6766-01 client id: WQ-1MSD
Percent Solids for Sample: 0 Spiked ID: I6766-01MSD 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	5.2		0.78		5	88		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92076 **Level:** LOW **SDG No.:** LB92076
Contract: **Lab Code:** CHEM **Case No.:** LB92076 **SAS No.:** LB92076
Matrix: WATER **Sample ID:** I6766-01 **Client ID:** WQ-1DUP
Percent Solids for Sample: 0 **Duplicate ID** I6766-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.78		0.78		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92076 **Level:** LOW **SDG No.:** LB92076
Contract: **Lab Code:** CHEM **Case No.:** LB92076 **SAS No.:** LB92076
Matrix: WATER **Sample ID:** I6766-01MS **Client ID:** WQ-1MSD
Percent Solids for Sample: 0 **Duplicate ID** I6766-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.2		5.2		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92076

SDG No.: LB92076

Contract:

Lab Code: CHEM

Case No.: LB92076

SAS No.: LB92076

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104862BS TKN	mg/L	5	4.8		96	80 - 120	