

Daily Analysis Runlog For Sequence/QC Batch ID # LB89485

Review By		Review On				
SubDirectory		LB89485		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP57230				
ICV Standard		WP57232				
CCV Standard		WP57231				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57233				
Chk Standard		WP57031,WP57231,WP57238,WP56632				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	08/15/17 09:46		OK
2	1.0PPM	1.0PPM	CAL2	08/15/17 09:46		OK
3	2.5PPM	2.5PPM	CAL3	08/15/17 09:46		OK
4	5.0PPM	5.0PPM	CAL4	08/15/17 09:46		OK
5	6.7PPM	6.7PPM	CAL5	08/15/17 09:46		OK
6	10.0PPM	10.0PPM	CAL6	08/15/17 09:46		OK
7	ICV1	ICV1	ICV	08/15/17 10:13		OK
8	ICB1	ICB1	ICB	08/15/17 10:13		OK
9	CCV1	CCV1	CCV	08/15/17 10:13		OK
10	CCB1	CCB1	CCB	08/15/17 10:13		OK
11	PB101507BL	PB101507BL	MB	08/15/17 10:13		OK
12	PB101507BS	PB101507BS	LCS	08/15/17 10:13		OK
13	I4736-13	TWP-37	SAM	08/15/17 10:13		Dilution
14	I4736-13DUP	TWP-37DUP	DUP	08/15/17 10:13		Dilution
15	I4736-13MS	TWP-37MS	MS	08/15/17 10:13		Dilution
16	I4736-13MSD	TWP-37MSD	MSD	08/15/17 10:13		Dilution
17	I4736-14	TWP-32	SAM	08/15/17 10:13		OK
18	CCV2	CCV2	CCV	08/15/17 10:13		OK
19	CCB2	CCB2	CCB	08/15/17 10:16		OK
20	I4736-13DL	TWP-37DL	SAM	08/15/17 10:43		Confirms
21	I4736-13DUPDL	TWP-37DUPDL	DUP	08/15/17 10:43		Confirms

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		LB89485		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP57230				
ICV Standard		WP57232				
CCV Standard		WP57231				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57233				
Chk Standard		WP57031,WP57231,WP57238,WP56632				
22	I4736-13MSDL	TWP-37MSDL	MS	08/15/17 10:43		Confirms
23	I4736-13MSDDL	TWP-37MSDDL	MSD	08/15/17 10:43		Confirms
24	CCV3	CCV3	CCV	08/15/17 10:43		OK
25	CCB3	CCB3	CCB	08/15/17 10:43		OK



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89485	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-37	SDG No.:	LB89485
Lab Sample ID:	I4736-13	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	14.6	OR	1	0.096		0.5	mg/L	08/14/2017	08/15/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89485	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-37DL	SDG No.:	LB89485
Lab Sample ID:	I4736-13DL	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	14.9	D	5	0.48		2.5	mg/L	08/14/2017	08/15/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89485	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-32	SDG No.:	LB89485
Lab Sample ID:	I4736-14	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	2.7		1	0.096		0.5	mg/L	08/14/2017	08/15/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89485	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-32	SDG No.:	LB89485
Lab Sample ID:	I4736-14	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: LB89485

SDG No.: LB89485

Contract: _____

Lab Code: CHEM

Case No.: LB89485

SAS No.: LB89485

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		08/15/2017	10:13	LB89485



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89485

SDG No.: LB89485

Contract: _____ Lab Code: CHEM

Case No.: LB89485

SAS No.: LB89485

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	5.3	5	106	0	80 - 120		08/15/2017	10:13	LB89485
CCV2	TKN	5.1	5	102	0	80 - 120		08/15/2017	10:13	LB89485
CCV3	TKN	5.3	5	106	0	80 - 120		08/15/2017	10:43	LB89485



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89485

SDG No.: LB89485

Contract:

Lab Code: CHEM

Case No.: LB89485

SAS No.: LB89485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.18	+/-0.5	J		0.5		08/15/2017	10:13	LB89485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.17	+/-0.5	J			0.5	08/15/2017	10:13	LB89485
CCB2	TKN	0.17	+/-0.5	J			0.5	08/15/2017	10:16	LB89485
CCB3	TKN	0.19	+/-0.5	J			0.5	08/15/2017	10:43	LB89485



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89485

SDG No.: LB89485

Contract: Lab Code: CHEM

Case No.: LB89485

SAS No.: LB89485

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: LB89485

SDG No.: LB89485

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
PB101507BL	TKN	WATER 0.17	<0.5	Batch Number: J		PB101507 0.5		Prep Date: 08/15/2017	08/14/2017 10:13	LB89485



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89485 level: low sdg no.: LB89485
contract: lab code: CHEM case no.: LB89485 sas no.: LB89485
matrix: WATER sample id: I4736-13 client id: TWP-37MS
Percent Solids for Sample: 0 Spiked ID: I4736-13MS 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	23.4	OR	14.6	OR	5	176	*	



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89485 level: low sdg no.: LB89485
contract: lab code: CHEM case no.: LB89485 sas no.: LB89485
matrix: WATER sample id: I4736-13 client id: TWP-37MSD
Percent Solids for Sample: 0 Spiked ID: I4736-13MSD 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	25.8	OR	14.6	OR	5	224	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89485 level: low sdg no.: LB89485
contract: lab code: CHEM case no.: LB89485 sas no.: LB89485
matrix: WATER sample id: I4736-13DL client id: TWP-37MSDDL
Percent Solids for Sample: 0 Spiked ID: I4736-13MSDDL 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	20.3	D	14.9	D	5	108		



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89485 level: low sdg no.: LB89485
contract: lab code: CHEM case no.: LB89485 sas no.: LB89485
matrix: WATER sample id: I4736-13DL client id: TWP-37MSDL
Percent Solids for Sample: 0 Spiked ID: I4736-13MSDL 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	20.9	D	14.9	D	5	120		

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DUPLICATE SAMPLE SUMMARY

Client: LB89485 **Level:** LOW **SDG No.:** LB89485
Contract: **Lab Code:** CHEM **Case No.:** LB89485 **SAS No.:** LB89485
Matrix: WATER **Sample ID:** I4736-13 **Client ID:** TWP-37DUP
Percent Solids for Sample: 0 **Duplicate ID** I4736-13DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	14.6	OR	14.3	OR	2		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89485 **Level:** LOW **SDG No.:** LB89485
Contract: **Lab Code:** CHEM **Case No.:** LB89485 **SAS No.:** LB89485
Matrix: WATER **Sample ID:** I4736-13DL **Client ID:** TWP-37DUPDL
Percent Solids for Sample: 0 **Duplicate ID** I4736-13DUPDL **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	14.9	D	14.8	D	1		

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DUPLICATE SAMPLE SUMMARY

Client: LB89485 **Level:** LOW **SDG No.:** LB89485
Contract: **Lab Code:** CHEM **Case No.:** LB89485 **SAS No.:** LB89485
Matrix: WATER **Sample ID:** I4736-13MS **Client ID:** TWP-37MSD
Percent Solids for Sample: 0 **Duplicate ID** I4736-13MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	23.4	OR	25.8	OR	10		

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DUPLICATE SAMPLE SUMMARY

Client: LB89485 **Level:** LOW **SDG No.:** LB89485
Contract: **Lab Code:** CHEM **Case No.:** LB89485 **SAS No.:** LB89485
Matrix: WATER **Sample ID:** I4736-13MSDL **Client ID:** TWP-37MSDDL
Percent Solids for Sample: 0 **Duplicate ID** I4736-13MSDDL **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	20.9	D	20.3	D	3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89485

SDG No.: LB89485

Contract:

Lab Code: CHEM

Case No.: LB89485

SAS No.: LB89485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101507BS TKN	mg/L	5	5.2		104	80 - 120	