

Daily Analysis Runlog For Sequence/QC Batch ID # LB95290

Review By		Review On				
SubDirectory		LB95290		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP64373				
ICV Standard		WP64375				
CCV Standard		WP64374				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP64376				
Chk Standard		WP61582,WP63749,WP63750,WP63751				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	05/11/18 08:25		OK
2	1.0PPM	1.0PPM	CAL2	05/11/18 08:25		OK
3	2.5PPM	2.5PPM	CAL3	05/11/18 08:25		OK
4	5.0PPM	5.0PPM	CAL4	05/11/18 08:25		OK
5	6.7PPM	6.7PPM	CAL5	05/11/18 08:25		OK
6	10.0PPM	10.0PPM	CAL6	05/11/18 08:25		OK
7	ICV1	ICV1	ICV	05/11/18 08:56		OK
8	ICB1	ICB1	ICB	05/11/18 08:56		OK
9	CCV1	CCV1	CCV	05/11/18 08:56		OK
10	CCB1	CCB1	CCB	05/11/18 08:56		OK
11	PB109129BL	PB109129BL	MB	05/11/18 08:56		OK
12	PB109129BS	PB109129BS	LCS	05/11/18 08:56		OK
13	J2823-01	GREENSAND-SUPP	SAM	05/11/18 08:56	high	Dilution
14	J2823-01DUP	GREENSAND-SUPP	DUP	05/11/18 08:56	high	Dilution
15	J2823-01MS	GREENSAND-SUPP	MS	05/11/18 08:56	high	Dilution
16	J2823-01MSD	GREENSAND-SUPP	MSD	05/11/18 08:56	high	Dilution
17	J2823-02	GREENSAND-SUPP	SAM	05/11/18 08:56	high	Dilution
18	CCV2	CCV2	CCV	05/11/18 08:56		OK
19	CCB2	CCB2	CCB	05/11/18 08:59		OK
20	J2823-01DL	GREENSAND-SUPP	SAM	05/11/18 10:00	report 10x	Confirms
21	J2823-01DUPDL	GREENSAND-SUPP	DUP	05/11/18 10:00	report 10x	Confirms

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

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SubDirectory		LB95290		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP64373				
ICV Standard		WP64375				
CCV Standard		WP64374				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP64376				
Chk Standard		WP61582,WP63749,WP63750,WP63751				
22	J2823-01MSDL	GREENSAND-SUPP	MS	05/11/18 10:00	report 10x	Confirms
23	J2823-01MSDDL	GREENSAND-SUPP	MSD	05/11/18 10:00	report 10x	Confirms
24	J2823-02DL	GREENSAND-SUPP	SAM	05/11/18 10:00	report 10x	Confirms
25	CCV3	CCV3	CCV	05/11/18 10:00		OK
26	CCB3	CCB3	CCB	05/11/18 10:00		OK



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95290	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-A	SDG No.:	LB95290
Lab Sample ID:	J2823-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2620	OR	1	6.4		33.6	mg/Kg	05/10/2018	05/11/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95290	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-ADL	SDG No.:	LB95290
Lab Sample ID:	J2823-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3230	D	10	64.5		336	mg/Kg	05/10/2018	05/11/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95290	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-B	SDG No.:	LB95290
Lab Sample ID:	J2823-02	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3080	OR	1	7.6		39.5	mg/Kg	05/10/2018	05/11/2018	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95290	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-BDL	SDG No.:	LB95290
Lab Sample ID:	J2823-02DL	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3730	D	10	75.8		395	mg/Kg	05/10/2018	05/11/2018	SM4500 N Org



Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95290	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-BDL	SDG No.:	LB95290
Lab Sample ID:	J2823-02DL	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

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: LB95290

SDG No.: LB95290

Contract: _____

Lab Code: CHEM

Case No.: LB95290

SAS No.: LB95290

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	4.8	5	96		80 - 120		05/11/2018	08:56	lb95290



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95290

SDG No.: LB95290

Contract: _____ Lab Code: CHEM

Case No.: LB95290

SAS No.: LB95290

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		05/11/2018	08:56	lb95290
CCV2	TKN	5.5	5	110		80 - 120		05/11/2018	08:56	lb95290
CCV3	TKN	5.4	5	108		80 - 120		05/11/2018	10:00	lb95290



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95290

SDG No.: LB95290

Contract:

Lab Code: CHEM

Case No.: LB95290

SAS No.: LB95290

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.15	+/-0.5	J		0.5		05/11/2018	08:56	lb95290

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.15	+/-0.5	J			0.5	05/11/2018	08:56	lb95290
CCB2	TKN	0.14	+/-0.5	J			0.5	05/11/2018	08:59	lb95290
CCB3	TKN	0.15	+/-0.5	J			0.5	05/11/2018	10:00	lb95290



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95290

SDG No.: LB95290

Contract: Lab Code: CHEM

Case No.: LB95290

SAS No.: LB95290

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: LB95290

SDG No.: LB95290

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109129BL	TKN	SOLID 7.7	<24.5	Batch Number: J		PB109129 24.5		Prep Date: 05/11/2018	05/10/2018 08:56	lb95290



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95290 level: low sdg no.: LB95290
contract: lab code: CHEM case no.: LB95290 sas no.: LB95290
matrix: Solid sample id: J2823-01 client id: GREENSAND-SUPPLY-AMS
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MS Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	2640	OR	2620	OR	340	6	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95290 level: low sdg no.: LB95290
contract: lab code: CHEM case no.: LB95290 sas no.: LB95290
matrix: Solid sample id: J2823-01 client id: GREENSAND-SUPPLY-AMSD
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSD Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	2640	OR	2620	OR	340	6	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95290 level: low sdg no.: LB95290
contract: lab code: CHEM case no.: LB95290 sas no.: LB95290
matrix: Solid sample id: J2823-01DL client id: GREENSAND-SUPPLY-AMSDDL
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSDDL Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	3220	D	3230	D	340	-3	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95290 level: low sdg no.: LB95290
contract: lab code: CHEM case no.: LB95290 sas no.: LB95290
matrix: Solid sample id: J2823-01DL client id: GREENSAND-SUPPLY-AMSDL
Percent Solids for Sample: 71.6 Spiked ID: J2823-01MSDL Percent Solids for Spike Sample: 71.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	3280	D	3230	D	340	15	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95290 **Level:** LOW **SDG No.:** LB95290
Contract: **Lab Code:** CHEM **Case No.:** LB95290 **SAS No.:** LB95290
Matrix: Solid **Sample ID:** J2823-01 **Client ID:** GREENSAND-SUPPLY-ADUP
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01DUP **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	2620	OR	2670	OR	2		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95290 **Level:** LOW **SDG No.:** LB95290
Contract: **Lab Code:** CHEM **Case No.:** LB95290 **SAS No.:** LB95290
Matrix: Solid **Sample ID:** J2823-01DL **Client ID:** GREENSAND-SUPPLY-ADUPDL
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01DUPDL **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	3230	D	3250	D	1		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95290 **Level:** LOW **SDG No.:** LB95290
Contract: **Lab Code:** CHEM **Case No.:** LB95290 **SAS No.:** LB95290
Matrix: Solid **Sample ID:** J2823-01MS **Client ID:** GREENSAND-SUPPLY-AMSD
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01MSD **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	2640	OR	2640	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95290 **Level:** LOW **SDG No.:** LB95290
Contract: **Lab Code:** CHEM **Case No.:** LB95290 **SAS No.:** LB95290
Matrix: Solid **Sample ID:** J2823-01MSDL **Client ID:** GREENSAND-SUPPLY-AMSDDL
Percent Solids for Sample: 71.6 **Duplicate ID** J2823-01MSDDL **Percent Solids for Spike Sample:** 71.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	3280	D	3220	D	2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95290

SDG No.: LB95290

Contract:

Lab Code: CHEM

Case No.: LB95290

SAS No.: LB95290

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109129BS TKN	mg/Kg	250	239		95.6	80 - 120	