

Daily Analysis Runlog For Sequence/QC Batch ID # LB95416

Review By		Review On				
SubDirectory		LB95416		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64556,WP64557,WP64558,WP64559,WP64560,WP64561,WP64562				
ICV Standard		WP64564				
CCV Standard		WP64563				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64565,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/17/18 09:18		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/17/18 09:18		OK
3	10PPBCN	10PPBCN	CAL3	05/17/18 09:18		OK
4	50PPBCN	50PPBCN	CAL4	05/17/18 09:18		OK
5	100PPBCN	100PPBCN	CAL5	05/17/18 09:18		OK
6	250PPBCN	250PPBCN	CAL6	05/17/18 09:18		OK
7	500PPBCN	500PPBCN	CAL7	05/17/18 09:18		OK
8	ICV1	ICV1	ICV	05/17/18 11:40		OK
9	ICB1	ICB1	ICB	05/17/18 11:40		OK
10	CCV1	CCV1	CCV	05/17/18 11:40		OK
11	CCB1	CCB1	CCB	05/17/18 11:40		OK
12	PB109376BL	PB109376BL	MB	05/17/18 11:40		OK
13	J2669-08	SU-03-051618	SAM	05/17/18 11:40		OK
14	J2935-02	NFS-OILY-STONE	SAM	05/17/18 11:40		OK
15	J2936-02	TP-1-WC-1	SAM	05/17/18 11:40		OK
16	J2936-04	TP-1-WC-2	SAM	05/17/18 11:40		OK
17	J2936-06	TP-1-WC-3	SAM	05/17/18 11:40		OK
18	J2936-08	TP-1-WC-4	SAM	05/17/18 11:47		OK
19	J2944-02	LSCY-STONE	SAM	05/17/18 11:47		OK
20	J2945-04	RO-1-4	SAM	05/17/18 11:47		OK
21	CCV2	CCV2	CCV	05/17/18 11:47		OK

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB95416

Review By		Review On				
SubDirectory		LB95416		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64556,WP64557,WP64558,WP64559,WP64560,WP64561,WP64562				
ICV Standard		WP64564				
CCV Standard		WP64563				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64565,WP59958,WP60878				
22	CCB2	CCB2	CCB	05/17/18 11:47		OK
23	J2963-13	254-COMP1-SL	SAM	05/17/18 11:47		OK
24	J2963-14	255-COMP1-SL	SAM	05/17/18 11:47		OK
25	J2963-15	255-COMP2-SL	SAM	05/17/18 11:47		OK
26	J2963-16	247-COMP1-SL	SAM	05/17/18 11:47		OK
27	J2963-17	238-COMP1-SL	SAM	05/17/18 11:47		OK
28	J2963-18	250-COMP1-SL	SAM	05/17/18 11:47		OK
29	J2964-03	BIN-7	SAM	05/17/18 11:52		OK
30	J2965-05	256-COMP1-SL	SAM	05/17/18 11:52		OK
31	J2965-06	252-COMP1-SL	SAM	05/17/18 11:52		OK
32	J2669-08DUP	SU-03-051618DUP	DUP	05/17/18 12:18		OK
33	CCV3	CCV3	CCV	05/17/18 12:18		OK
34	CCB3	CCB3	CCB	05/17/18 12:18		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	SU-03-051618	SDG No.:	LB95416
Lab Sample ID:	J2669-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.002	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	NFS-OILY-STONE	SDG No.:	LB95416
Lab Sample ID:	J2935-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0019	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	TP-1-WC-1	SDG No.:	LB95416
Lab Sample ID:	J2936-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0013	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	TP-1-WC-2	SDG No.:	LB95416
Lab Sample ID:	J2936-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0026	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	TP-1-WC-3	SDG No.:	LB95416
Lab Sample ID:	J2936-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00047	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	TP-1-WC-4	SDG No.:	LB95416
Lab Sample ID:	J2936-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0025	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	LSCY-STONE	SDG No.:	LB95416
Lab Sample ID:	J2944-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0054	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	RO-1-4	SDG No.:	LB95416
Lab Sample ID:	J2945-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0041	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	254-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0023	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	255-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-14	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0043	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	255-COMP2-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0033	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	247-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-16	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.012	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	238-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-17	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0032	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B

Report of Analysis

Client:		Date Collected:	5/15/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	250-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2963-18	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00023	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	BIN-7	SDG No.:	LB95416
Lab Sample ID:	J2964-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0031	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	256-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2965-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0033	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	252-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2965-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0054	U	1	0.025		0.05	mg/Kg	05/17/2018	05/17/2018	9012B



Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95416	Date Received:	5/16/2018 12:00:00 AM
Client Sample ID:	252-COMP1-SL	SDG No.:	LB95416
Lab Sample ID:	J2965-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB95416

SDG No.: LB95416

Contract: _____

Lab Code: CHEM

Case No.: LB95416

SAS No.: LB95416

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	Reactive Cyanide	0.096	0.099	97		85 - 115		05/17/2018	11:40	lb95416



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95416

SDG No.: LB95416

Contract: _____ Lab Code: CHEM

Case No.: LB95416

SAS No.: LB95416

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	Reactive Cyanide	0.24	0.25	96		90 - 110		05/17/2018	11:40	lb95416
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/17/2018	11:47	lb95416
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		05/17/2018	12:18	lb95416



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95416

SDG No.: LB95416

Contract:

Lab Code: CHEM

Case No.: LB95416

SAS No.: LB95416

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0004	+/-0.005	U		0.005		05/17/2018	11:40	lb95416

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00022	+/-0.005	U		0.005		05/17/2018	11:40	lb95416
CCB2	Reactive Cyanide	-0.00047	+/-0.005	U		0.005		05/17/2018	11:47	lb95416
CCB3	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		05/17/2018	12:18	lb95416



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95416

SDG No.: LB95416

Contract: Lab Code: CHEM

Case No.: LB95416

SAS No.: LB95416

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB95416

SDG No.: LB95416

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
PB109376BL	Reactive Cyanide	SOLID -0.0072	<0.05	Batch Number: U		PB109376 0.05		Prep Date: 05/17/2018	05/17/2018 11:40	lb95416

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95416 **Level:** LOW **SDG No.:** LB95416
Contract: **Lab Code:** CHEM **Case No.:** LB95416 **SAS No.:** LB95416
Matrix: Solid **Sample ID:** J2669-08 **Client ID:** SU-03-051618DUP
Percent Solids for Sample: 100 **Duplicate ID** J2669-08DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.002	U			