

Daily Analysis Runlog For Sequence/QC Batch ID # LB89442

Review By		Review On				
SubDirectory		LB89442		Test : Reactive Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP57169,WP57170,WP57171,WP57171,WP57172,WP57173,WP57173,WP57174,WP57175,WP57176
ICV Standard	WP57179
CCV Standard	WP57178
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP5177,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/11/17 09:58		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/11/17 09:58		OK
3	10PPBCN	10PPBCN	CAL3	08/11/17 09:58		OK
4	50PPBCN	50PPBCN	CAL4	08/11/17 09:58		OK
5	100PPBCN	100PPBCN	CAL5	08/11/17 09:58		OK
6	250PPBCN	250PPBCN	CAL6	08/11/17 09:58		OK
7	500PPBCN	500PPBCN	CAL7	08/11/17 09:58		OK
8	ICV1	ICV1	ICV	08/11/17 17:31		OK
9	ICB1	ICB1	ICB	08/11/17 17:31		OK
10	CCV1	CCV1	CCV	08/11/17 18:06		OK
11	CCB1	CCB1	CCB	08/11/17 18:06		OK
12	PB101466BL	PB101466BL	MB	08/11/17 18:06		OK
13	I4705-03	SP-A-COMP	SAM	08/11/17 18:06		OK
14	I4705-03DUP	SP-A-COMPDUP	DUP	08/11/17 18:06		OK
15	I4705-06	SP-B-COMP	SAM	08/11/17 18:06		OK
16	I4706-03	OR-02-081017	SAM	08/11/17 18:06		OK
17	I4717-03	OK-02-081017	SAM	08/11/17 18:06		OK
18	I4736-15	SB-32-COMP	SAM	08/11/17 18:06		OK
19	I4736-16	SB-34-COMP	SAM	08/11/17 18:06		OK
20	I4736-17	SB-37-COMP	SAM	08/11/17 18:06		OK
21	I4736-18	SB-10-COMP	SAM	08/11/17 18:14		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89442

Review By		Review On				
SubDirectory		LB89442		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57169,WP57170,WP57171,WP57171,WP57172,WP57173,WP57173,WP57174,WP57175,WP57176				
ICV Standard		WP57179				
CCV Standard		WP57178				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP5177,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/11/17 18:14		OK
23	CCB2	CCB2	CCB	08/11/17 18:14		OK
24	I4736-19	SB-36-COMP	SAM	08/11/17 18:14		OK
25	I4736-20	SB-35-COMP	SAM	08/11/17 18:14		OK
26	I4739-08	S11-WC-1	SAM	08/11/17 18:14		OK
27	I4739-09	S11-WC-2	SAM	08/11/17 18:14		OK
28	I4739-10	S11-WC-3	SAM	08/11/17 18:14		OK
29	I4739-11	S11-WC-4	SAM	08/11/17 18:14		OK
30	I4739-12	S11-WC-5	SAM	08/11/17 18:14		OK
31	I4739-13	S11-WC-6	SAM	08/11/17 18:14		OK
32	I4739-14	S11-WC-7	SAM	08/11/17 18:18		OK
33	CCV3	CCV3	CCV	08/11/17 18:18		OK
34	CCB3	CCB3	CCB	08/11/17 18:18		OK



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SP-A-COMP	SDG No.:	LB89442
Lab Sample ID:	I4705-03	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	-0.0046	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SP-B-COMP	SDG No.:	LB89442
Lab Sample ID:	I4705-06	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	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	OR-02-081017	SDG No.:	LB89442
Lab Sample ID:	I4706-03	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	-0.0056	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	OK-02-081017	SDG No.:	LB89442
Lab Sample ID:	I4717-03	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	-0.0032	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-32-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-15	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	-0.0056	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-34-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-16	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	-0.0062	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-37-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-17	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	-0.0044	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-10-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-18	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	-0.0044	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-36-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-19	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	-0.0081	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	SB-35-COMP	SDG No.:	LB89442
Lab Sample ID:	I4736-20	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	-0.018	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-1	SDG No.:	LB89442
Lab Sample ID:	I4739-08	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	-0.014	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-2	SDG No.:	LB89442
Lab Sample ID:	I4739-09	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	-0.013	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-3	SDG No.:	LB89442
Lab Sample ID:	I4739-10	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	-0.0076	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-4	SDG No.:	LB89442
Lab Sample ID:	I4739-11	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	-0.0064	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-5	SDG No.:	LB89442
Lab Sample ID:	I4739-12	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	-0.0095	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-6	SDG No.:	LB89442
Lab Sample ID:	I4739-13	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	-0.0078	U	1	0.025		0.049	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-7	SDG No.:	LB89442
Lab Sample ID:	I4739-14	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	-0.012	U	1	0.025		0.05	mg/Kg	08/11/2017	08/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89442	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	S11-WC-7	SDG No.:	LB89442
Lab Sample ID:	I4739-14	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

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: LB89442

SDG No.: LB89442

Contract: _____

Lab Code: CHEM

Case No.: LB89442

SAS No.: LB89442

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	Reactive Cyanide	0.1	0.099	101	0	85 - 115		08/11/2017	17:31	LB89442



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89442

SDG No.: LB89442

Contract: _____ Lab Code: CHEM

Case No.: LB89442

SAS No.: LB89442

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	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/11/2017	18:06	LB89442
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/11/2017	18:14	LB89442
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		08/11/2017	18:18	LB89442



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89442

SDG No.: LB89442

Contract:

Lab Code: CHEM

Case No.: LB89442

SAS No.: LB89442

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0	+/-0.005	U		0.005		08/11/2017	17:31	LB89442



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89442

SDG No.: LB89442

Contract:

Lab Code: CHEM

Case No.: LB89442

SAS No.: LB89442

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00027	+/-0.005	U		0.005		08/11/2017	18:06	LB89442
CCB2	Reactive Cyanide	-0.00026	+/-0.005	U		0.005		08/11/2017	18:14	LB89442
CCB3	Reactive Cyanide	-0.00026	+/-0.005	U		0.005		08/11/2017	18:18	LB89442



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89442

SDG No.: LB89442

Contract: Lab Code: CHEM

Case No.: LB89442

SAS No.: LB89442

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: LB89442

SDG No.: LB89442

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
PB101466BL	Reactive Cyanide	SOLID -0.0023	<0.05	Batch Number: U		PB101466 0.05		Prep Date: 08/11/2017	08/11/2017 18:06	LB89442

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89442 **Level:** LOW **SDG No.:** LB89442
Contract: **Lab Code:** CHEM **Case No.:** LB89442 **SAS No.:** LB89442
Matrix: Solid **Sample ID:** I4705-03 **Client ID:** SP-A-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I4705-03DUP **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	-0.0054	U			