

Daily Analysis Runlog For Sequence/QC Batch ID # LB92072

Review By

Review On

SubDirectory

LB92072

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP60262,WP60263,WP60264,WP60265,WP60266,WP60267,WP60268
ICV Standard	WP60271
CCV Standard	WP60269
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP60270,WP59958,WP60150

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/11/17 10:52		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/11/17 10:52		OK
3	10PPBCN	10PPBCN	CAL3	12/11/17 10:52		OK
4	50PPBCN	50PPBCN	CAL4	12/11/17 10:52		OK
5	100PPBCN	100PPBCN	CAL5	12/11/17 10:52		OK
6	250PPBCN	250PPBCN	CAL6	12/11/17 10:52		OK
7	500PPBCN	500PPBCN	CAL7	12/11/17 10:52		OK
8	ICV1	ICV1	ICV	12/11/17 11:46		OK
9	ICB1	ICB1	ICB	12/11/17 11:46		OK
10	CCV1	CCV1	CCV	12/11/17 11:46		OK
11	CCB1	CCB1	CCB	12/11/17 11:46		OK
12	PB104841BL	PB104841BL	MB	12/11/17 11:46		OK
13	I6677-02	OR-03-120717-A	SAM	12/11/17 11:46		OK
14	I6677-02DUP	OR-03-120717-ADUP	DUP	12/11/17 11:46		OK
15	I6677-04	OR-03-120717-B	SAM	12/11/17 11:46		OK
16	I6789-03	SP-1	SAM	12/11/17 11:46		OK
17	I6790-02	SOILWASTE-CHARA	SAM	12/11/17 11:53		OK
18	I6791-07	AREA-1-1-SAMPLE	SAM	12/11/17 11:53		OK
19	I6791-08	AREA-1-2-SAMPLE	SAM	12/11/17 11:53		OK
20	I6791-09	AREA-2-1-SAMPLE	SAM	12/11/17 11:53		OK
21	I6791-10	AREA-2-2-SAMPLE	SAM	12/11/17 11:53		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92072

Review By		Review On				
SubDirectory		LB92072		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60262,WP60263,WP60264,WP60265,WP60266,WP60267,WP60268				
ICV Standard		WP60271				
CCV Standard		WP60269				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60270,WP59958,WP60150				
22	CCV2	CCV2	CCV	12/11/17 11:53		OK
23	CCB2	CCB2	CCB	12/11/17 11:53		OK
24	I6791-11	AREA-3-1-SAMPLE	SAM	12/11/17 11:53		OK
25	I6791-12	AREA-3-2-SAMPLE	SAM	12/11/17 11:53		OK
26	PB104894BL	PB104894BL	MB	12/11/17 11:53		OK
27	I6814-04	PHMHC-WC1	SAM	12/11/17 11:59		OK
28	PB104908BL	PB104908BL	MB	12/11/17 11:59		OK
29	I6813-04	Drill-Cutting-Spoils	SAM	12/11/17 11:59		OK
30	I6813-04DUP	Drill-Cutting-SpoilsDUP	DUP	12/11/17 11:59		OK
31	I6813-02	Soil-Cuttings	SAM	12/11/17 12:15		OK
32	I6813-02DUP	Soil-CuttingsDUP	DUP	12/11/17 12:15		OK
33	CCV3	CCV3	CCV	12/11/17 12:15		OK
34	CCB3	CCB3	CCB	12/11/17 12:15		OK



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	OR-03-120717-A	SDG No.:	LB92072
Lab Sample ID:	I6677-02	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	0.0073	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	OR-03-120717-B	SDG No.:	LB92072
Lab Sample ID:	I6677-04	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	0.0097	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	SP-1	SDG No.:	LB92072
Lab Sample ID:	I6789-03	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	0.0053	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	SOILWASTE-CHARACTERIZATION	SDG No.:	LB92072
Lab Sample ID:	I6790-02	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	0.00074	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-1-1-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-07	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	0.0065	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-1-2-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-08	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	0.0081	U	1	0.025		0.049	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-2-1-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-09	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	0.0089	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-2-2-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-10	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	0.01	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-3-1-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-11	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	0.0088	U	1	0.025		0.049	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	AREA-3-2-SAMPLE	SDG No.:	LB92072
Lab Sample ID:	I6791-12	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	0.0077	U	1	0.025		0.05	mg/Kg	12/08/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	Soil-Cuttings	SDG No.:	LB92072
Lab Sample ID:	I6813-02	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	0.007	U	1	0.025		0.05	mg/Kg	12/11/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	Drill-Cutting-Spoils	SDG No.:	LB92072
Lab Sample ID:	I6813-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00082	U	1	0.0025		0.005	mg/L	12/11/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	PHMHC-WC1	SDG No.:	LB92072
Lab Sample ID:	I6814-04	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	0.0059	U	1	0.025		0.05	mg/Kg	12/11/2017	12/11/2017	9012B



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

Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92072	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	PHMHC-WC1	SDG No.:	LB92072
Lab Sample ID:	I6814-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

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: LB92072

SDG No.: LB92072

Contract: _____

Lab Code: CHEM

Case No.: LB92072

SAS No.: LB92072

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	0.096	0.099	97	0	85 - 115		12/11/2017	11:46	lb92072



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92072

SDG No.: LB92072

Contract: _____ Lab Code: CHEM

Case No.: LB92072

SAS No.: LB92072

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	0.24	0.25	96	0	90 - 110		12/11/2017	11:46	lb92072
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		12/11/2017	11:53	lb92072
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		12/11/2017	12:15	lb92072



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92072 **SDG No.:** LB92072
Contract: **Lab Code:** CHEM **Case No.:** LB92072 **SAS No.:** LB92072

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.001	+/-0.005	U		0.005		12/11/2017	11:46	lb92072



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92072

SDG No.: LB92072

Contract:

Lab Code: CHEM

Case No.: LB92072

SAS No.: LB92072

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0009	+/-0.005	U		0.005		12/11/2017	11:46	1b92072
CCB2	Reactive Cyanide	0.0012	+/-0.005	U		0.005		12/11/2017	11:53	1b92072
CCB3	Reactive Cyanide	0.0011	+/-0.005	U		0.005		12/11/2017	12:15	1b92072



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92072

SDG No.: LB92072

Contract: Lab Code: CHEM

Case No.: LB92072

SAS No.: LB92072

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: LB92072

SDG No.: LB92072

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
PB104841BL	Reactive Cyanide	SOLID		Batch Number:		PB104841		Prep Date:	12/08/2017	
		0.0099	<0.05	U		0.05		12/11/2017	11:46	lb92072
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104894BL	Reactive Cyanide	SOLID		Batch Number:		PB104894		Prep Date:	12/11/2017	
		0.01	<0.05	U		0.05		12/11/2017	11:53	lb92072
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104908BL	Reactive Cyanide	WATER		Batch Number:		PB104908		Prep Date:	12/11/2017	
		0.001	<0.005	U		0.005		12/11/2017	11:59	lb92072

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92072 **Level:** LOW **SDG No.:** LB92072
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92072 **SAS No.:** LB92072
Matrix: Solid **Sample ID:** I6677-02 **Client ID:** OR-03-120717-ADUP
Percent Solids for Sample: 100 **Duplicate ID** I6677-02DUP **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	0.0075	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92072 **Level:** LOW **SDG No.:** LB92072
Contract: **Lab Code:** CHEM **Case No.:** LB92072 **SAS No.:** LB92072
Matrix: Solid **Sample ID:** I6813-02 **Client ID:** Soil-CuttingsDUP
Percent Solids for Sample: 100 **Duplicate ID** I6813-02DUP **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	0.0077	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92072 **Level:** LOW **SDG No.:** LB92072
Contract: **Lab Code:** CHEM **Case No.:** LB92072 **SAS No.:** LB92072
Matrix: WATER **Sample ID:** I6813-04 **Client ID:** Drill-Cutting-SpoilsDUP
Percent Solids for Sample: 0 **Duplicate ID** I6813-04DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.00091	U			