

Daily Analysis Runlog For Sequence/QC Batch ID # LB89253

Review By		Review On				
SubDirectory		LB89253		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56916,WP56917,WP56918,WP56919,WP56920,WP56921,WP56922,WP56929				
ICV Standard		WP56925				
CCV Standard		WP56924				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP56923,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/03/17 14:07		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/03/17 14:07		OK
3	10PPBCN	10PPBCN	CAL3	08/03/17 14:07		OK
4	50PPBCN	50PPBCN	CAL4	08/03/17 14:07		OK
5	100PPBCN	100PPBCN	CAL5	08/03/17 14:07		OK
6	250PPBCN	250PPBCN	CAL6	08/03/17 14:07		OK
7	500PPBCN	500PPBCN	CAL7	08/03/17 14:07		OK
8	ICV1	ICV1	ICV	08/03/17 14:45		OK
9	ICB1	ICB1	ICB	08/03/17 14:45		OK
10	CCV1	CCV1	CCV	08/03/17 14:45		OK
11	CCB1	CCB1	CCB	08/03/17 14:45		OK
12	PB101236BL	PB101236BL	MB	08/03/17 14:45		OK
13	I4555-08	2013	SAM	08/03/17 14:45		OK
14	I4555-08DUP	2013DUP	DUP	08/03/17 14:45		OK
15	I4555-13	2043	SAM	08/03/17 14:45		OK
16	I4584-03	OK-01-080217	SAM	08/03/17 14:45		OK
17	I4585-03	OR-01-080217	SAM	08/03/17 14:45		OK
18	I4586-03	HARDWICK-SOIL-CO	SAM	08/03/17 14:45		OK
19	I4591-03	DRUM-1-2-COMP	SAM	08/03/17 14:53		OK
20	I4591-07	GRAVEL-PILE	SAM	08/03/17 14:53		OK
21	I4592-02	15-50-RT3460-RT42	SAM	08/03/17 14:53		OK

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB89253

Review By		Review On				
SubDirectory		LB89253		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56916,WP56917,WP56918,WP56919,WP56920,WP56921,WP56922,WP56929				
ICV Standard		WP56925				
CCV Standard		WP56924				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP56923,WP55355,WP55836				

22	CCV2	CCV2	CCV	08/03/17 14:53		OK
23	CCB2	CCB2	CCB	08/03/17 14:53		OK
24	I4594-05	72-12000-R4	SAM	08/03/17 14:53		OK
25	PB101237BL	PB101237BL	MB	08/03/17 14:53		OK
26	I4555-02	SV21074LM	SAM	08/03/17 14:53		OK
27	I4555-02DUP	SV21074LMDUP	DUP	08/03/17 14:53		OK
28	CCV3	CCV3	CCV	08/03/17 14:53		OK
29	CCB3	CCB3	CCB	08/03/17 14:53		OK



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	SV21074LM	SDG No.:	LB89253
Lab Sample ID:	I4555-02	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	0.00023	U	1	0.0025		0.005	mg/L	08/03/2017	08/03/2017	9012B

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2013	SDG No.:	LB89253
Lab Sample ID:	I4555-08	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	-0.0027	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2043	SDG No.:	LB89253
Lab Sample ID:	I4555-13	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	0.0011	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	OK-01-080217	SDG No.:	LB89253
Lab Sample ID:	I4584-03	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	0.0001	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	OR-01-080217	SDG No.:	LB89253
Lab Sample ID:	I4585-03	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	-0.0028	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	HARDWICK-SOIL-COMP	SDG No.:	LB89253
Lab Sample ID:	I4586-03	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	-0.0016	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	DRUM-1-2-COMP	SDG No.:	LB89253
Lab Sample ID:	I4591-03	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	-0.00042	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	GRAVEL-PILE	SDG No.:	LB89253
Lab Sample ID:	I4591-07	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	-0.0011	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	15-50-RT3460-RT4215-RT3451	SDG No.:	LB89253
Lab Sample ID:	I4592-02	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	0.0031	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	72-12000-R4	SDG No.:	LB89253
Lab Sample ID:	I4594-05	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	-0.00068	U	1	0.025		0.05	mg/Kg	08/03/2017	08/03/2017	9012B



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

Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89253	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	72-12000-R4	SDG No.:	LB89253
Lab Sample ID:	I4594-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

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: LB89253

SDG No.: LB89253

Contract: _____

Lab Code: CHEM

Case No.: LB89253

SAS No.: LB89253

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		08/03/2017	14:45	LB89253



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89253

SDG No.: LB89253

Contract: _____ Lab Code: CHEM

Case No.: LB89253

SAS No.: LB89253

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		08/03/2017	14:45	LB89253
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		08/03/2017	14:53	LB89253
CCV3	Reactive Cyanide	0.24	0.25	96	0	90 - 110		08/03/2017	14:53	LB89253



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89253

SDG No.: LB89253

Contract:

Lab Code: CHEM

Case No.: LB89253

SAS No.: LB89253

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00056	+/-0.005	U		0.005		08/03/2017	14:45	LB89253



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89253

SDG No.: LB89253

Contract:

Lab Code: CHEM

Case No.: LB89253

SAS No.: LB89253

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00044	+/-0.005	U		0.005		08/03/2017	14:45	LB89253
CCB2	Reactive Cyanide	0.00047	+/-0.005	U		0.005		08/03/2017	14:53	LB89253
CCB3	Reactive Cyanide	0.00074	+/-0.005	U		0.005		08/03/2017	14:53	LB89253



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89253

SDG No.: LB89253

Contract: Lab Code: CHEM

Case No.: LB89253

SAS No.: LB89253

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: LB89253

SDG No.: LB89253

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
PB101236BL	Reactive Cyanide	SOLID		Batch Number:		PB101236		Prep Date:	08/03/2017	
		0.0024	<0.05	U		0.05		08/03/2017	14:45	LB89253
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB101237BL	Reactive Cyanide	WATER		Batch Number:		PB101237		Prep Date:	08/03/2017	
		0.00042	<0.005	U		0.005		08/03/2017	14:53	LB89253

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89253 **Level:** LOW **SDG No.:** LB89253
Contract: **Lab Code:** CHEM **Case No.:** LB89253 **SAS No.:** LB89253
Matrix: WATER **Sample ID:** I4555-02 **Client ID:** SV21074LMDUP
Percent Solids for Sample: 0 **Duplicate ID** I4555-02DUP **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	0.00024	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89253 **Level:** LOW **SDG No.:** LB89253
Contract: **Lab Code:** CHEM **Case No.:** LB89253 **SAS No.:** LB89253
Matrix: Solid **Sample ID:** I4555-08 **Client ID:** 2013DUP
Percent Solids for Sample: 100 **Duplicate ID** I4555-08DUP **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	-0.0029	U			