



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

Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	TP-7-TP-8	SDG No.:	LB87607
Lab Sample ID:	I3243-05	Matrix:	Solid
Level (low/med):	low	% Solid:	80.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00096	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	TP-5-TP-6	SDG No.:	LB87607
Lab Sample ID:	I3243-10	Matrix:	Solid
Level (low/med):	low	% Solid:	71.3

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	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-12COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-18	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	-0.0016	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-13COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-20	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	0.0017	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-14COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-22	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	-0.006	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-19COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-24	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	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-18COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-26	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	-0.0052	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B

Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-17COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-28	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	05/20/2017	05/22/2017	9012B

Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-16COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-30	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	0.0024	U	1	0.025		0.049	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	SB-20COMP	SDG No.:	LB87607
Lab Sample ID:	I3249-32	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	-0.005	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	W.PRD-C.AVE(SP)	SDG No.:	LB87607
Lab Sample ID:	I3250-02	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	-0.0024	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/19/2017 12:00:00 AM
Client Sample ID:	RT-3873	SDG No.:	LB87607
Lab Sample ID:	I3278-03	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	-0.0019	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/19/2017 12:00:00 AM
Client Sample ID:	RT-2669	SDG No.:	LB87607
Lab Sample ID:	I3278-06	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	-0.0022	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/19/2017 12:00:00 AM
Client Sample ID:	RT-4632	SDG No.:	LB87607
Lab Sample ID:	I3278-09	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	-0.0044	U	1	0.025		0.05	mg/Kg	05/20/2017	05/22/2017	9012B



Report of Analysis

Client:		Date Collected:	5/19/2017 12:00:00 AM
Project:	LB87607	Date Received:	5/19/2017 12:00:00 AM
Client Sample ID:	RT-4632	SDG No.:	LB87607
Lab Sample ID:	I3278-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB87607

SDG No.: LB87607

Contract: _____ Lab Code: CHEM

Case No.: LB87607

SAS No.: LB87607

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	0.093	0.099	93.9	0	85 - 115		05/22/2017	11:59	LB87607



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87607

SDG No.: LB87607

Contract: _____ Lab Code: CHEM

Case No.: LB87607

SAS No.: LB87607

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		05/22/2017	11:59	LB87607
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		05/22/2017	12:06	LB87607
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/22/2017	12:23	LB87607



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87607

SDG No.: LB87607

Contract:

Lab Code: CHEM

Case No.: LB87607

SAS No.: LB87607

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		05/22/2017	11:59	LB87607

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0003	+/-0.005	U		0.005		05/22/2017	11:59	LB87607
CCB2	Reactive Cyanide	-0	+/-0.005	U		0.005		05/22/2017	12:06	LB87607
CCB3	Reactive Cyanide	-0.00035	+/-0.005	U		0.005		05/22/2017	12:23	LB87607



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87607

SDG No.: LB87607

Contract: Lab Code: CHEM

Case No.: LB87607

SAS No.: LB87607

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: LB87607

SDG No.: LB87607

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
PB99147BL	Reactive Cyanide	SOLID -0.0024	<0.05	Batch Number: U		PB99147 0.05		Prep Date: 05/22/2017	05/20/2017 11:59	LB87607

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87607 **Level:** LOW **SDG No.:** LB87607
Contract: **Lab Code:** CHEM **Case No.:** LB87607 **SAS No.:** LB87607
Matrix: Solid **Sample ID:** I3243-05 **Client ID:** TP-7-TP-8DUP
Percent Solids for Sample: 80.6 **Duplicate ID** I3243-05DUP **Percent Solids for Spike Sample:** 80.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.0038	U			

Daily Analysis Runlog For Sequence/QC Batch ID # LB87607

Review By		Review On				
SubDirectory		LB87607		Test : Reactive Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP55097,WP55098,WP55099,WP55100,WP55101,WP55102,WP55103,WP55104
ICV Standard	WP55107
CCV Standard	WP55106
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP55105,WP51626,WP51276

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/22/17 11:26		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/22/17 11:26		OK
3	10PPBCN	10PPBCN	CAL3	05/22/17 11:26		OK
4	50PPBCN	50PPBCN	CAL4	05/22/17 11:26		OK
5	100PPBCN	100PPBCN	CAL5	05/22/17 11:26		OK
6	250PPBCN	250PPBCN	CAL6	05/22/17 11:26		OK
7	500PPBCN	500PPBCN	CAL7	05/22/17 11:26		OK
8	ICV1	ICV1	ICV	05/22/17 11:59		OK
9	ICB1	ICB1	ICB	05/22/17 11:59		OK
10	CCV1	CCV1	CCV	05/22/17 11:59		OK
11	CCB1	CCB1	CCB	05/22/17 11:59		OK
12	PB99147BL	PB99147BL	MB	05/22/17 11:59		OK
13	I3243-05	TP-7-TP-8	SAM	05/22/17 11:59		OK
14	I3243-05DUP	TP-7-TP-8DUP	DUP	05/22/17 11:59		OK
15	I3243-10	TP-5-TP-6	SAM	05/22/17 11:59		OK
16	I3249-18	SB-12COMP	SAM	05/22/17 11:59		OK
17	I3249-20	SB-13COMP	SAM	05/22/17 11:59		OK
18	I3249-22	SB-14COMP	SAM	05/22/17 11:59		OK
19	I3249-24	SB-19COMP	SAM	05/22/17 12:06		OK
20	I3249-26	SB-18COMP	SAM	05/22/17 12:06		OK
21	I3249-28	SB-17COMP	SAM	05/22/17 12:06		OK

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Daily Analysis Runlog For Sequence/QC Batch ID # LB87607

Review By		Review On				
SubDirectory		LB87607		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55097,WP55098,WP55099,WP55100,WP55101,WP55102,WP55103,WP55104				
ICV Standard		WP55107				
CCV Standard		WP55106				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55105,WP51626,WP51276				
22	CCV2	CCV2	CCV	05/22/17 12:06		OK
23	CCB2	CCB2	CCB	05/22/17 12:06		OK
24	I3249-30	SB-16COMP	SAM	05/22/17 12:06		OK
25	I3250-02	W.P.RD-C.AVE(SP)	SAM	05/22/17 12:06		OK
26	I3278-03	RT-3873	SAM	05/22/17 12:06		OK
27	I3278-06	RT-2669	SAM	05/22/17 12:06		OK
28	I3278-09	RT-4632	SAM	05/22/17 12:06		OK
29	I3249-32	SB-20COMP	SAM	05/22/17 12:20		OK
30	CCV3	CCV3	CCV	05/22/17 12:23		OK
31	CCB3	CCB3	CCB	05/22/17 12:23		OK