



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

Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	SP-KEARNY-COMP	SDG No.:	LB88049
Lab Sample ID:	I3634-05	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	-0.008	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-A	SDG No.:	LB88049
Lab Sample ID:	I3635-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0075	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-B	SDG No.:	LB88049
Lab Sample ID:	I3635-06	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0091	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-C	SDG No.:	LB88049
Lab Sample ID:	I3635-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

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	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-D	SDG No.:	LB88049
Lab Sample ID:	I3635-12	Matrix:	Solid
Level (low/med):	low	% Solid:	91

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	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-E	SDG No.:	LB88049
Lab Sample ID:	I3635-15	Matrix:	Solid
Level (low/med):	low	% Solid:	93.8

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	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	OR-02-061217	SDG No.:	LB88049
Lab Sample ID:	I3636-03	Matrix:	Solid
Level (low/med):	low	% Solid:	97.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0091	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	NF-DRUMS-STONE-COMP	SDG No.:	LB88049
Lab Sample ID:	I3640-05	Matrix:	Solid
Level (low/med):	low	% Solid:	99.7

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	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	NF-DRUMS-DEBRIS-COMP	SDG No.:	LB88049
Lab Sample ID:	I3640-10	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	-0.0083	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	RO-VNJ217	SDG No.:	LB88049
Lab Sample ID:	I3643-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0042	U	1	0.025		0.05	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88049	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	RO-VNJ217	SDG No.:	LB88049
Lab Sample ID:	I3643-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

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: LB88049

SDG No.: LB88049

Contract: _____ Lab Code: CHEM

Case No.: LB88049

SAS No.: LB88049

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	0.097	0.099	98	0	85 - 115		06/13/2017	14:29	LB88049



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88049

SDG No.: LB88049

Contract: _____ Lab Code: CHEM

Case No.: LB88049

SAS No.: LB88049

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		06/13/2017	14:29	LB88049
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		06/13/2017	14:36	LB88049
CCV3	Reactive Cyanide	0.24	0.25	96	0	90 - 110		06/13/2017	14:36	LB88049



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88049 **SDG No.:** LB88049
Contract: **Lab Code:** CHEM **Case No.:** LB88049 **SAS No.:** LB88049

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00045	+/-0.005	U		0.005		06/13/2017	14:29	LB88049

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00021	+/-0.005	U		0.005		06/13/2017	14:29	LB88049
CCB2	Reactive Cyanide	-0.0007	+/-0.005	U		0.005		06/13/2017	14:36	LB88049
CCB3	Reactive Cyanide	-0.00033	+/-0.005	U		0.005		06/13/2017	14:36	LB88049



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB88049

SDG No.:

LB88049

Contract:

Lab Code:

CHEM

Case No.:

LB88049

SAS No.:

LB88049

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: LB88049

SDG No.: LB88049

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
PB99733BL	Reactive Cyanide	SOLID -0.0062	<0.05	Batch Number: U		PB99733 0.05		Prep Date: 06/13/2017	06/13/2017 14:29	LB88049

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88049 **Level:** LOW **SDG No.:** LB88049
Contract: _____ **Lab Code:** CHEM **Case No.:** LB88049 **SAS No.:** LB88049
Matrix: Solid **Sample ID:** I3634-05 **Client ID:** SP-KEARNY-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3634-05DUP **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	-0.0085	U			

Daily Analysis Runlog For Sequence/QC Batch ID # LB88049

Review By		Review On				
SubDirectory		LB88049		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55600,WP55601,WP55602,WP55603,WP55604,WP55605,WP55606,WP55607				
ICV Standard		WP55610				
CCV Standard		WP55609				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55608,WP51626,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/13/17 09:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/13/17 09:35		OK
3	10PPBCN	10PPBCN	CAL3	06/13/17 09:35		OK
4	50PPBCN	50PPBCN	CAL4	06/13/17 09:35		OK
5	100PPBCN	100PPBCN	CAL5	06/13/17 09:35		OK
6	250PPBCN	250PPBCN	CAL6	06/13/17 09:35		OK
7	500PPBCN	500PPBCN	CAL7	06/13/17 09:35		OK
8	ICV1	ICV1	ICV	06/13/17 14:29		OK
9	ICB1	ICB1	ICB	06/13/17 14:29		OK
10	CCV1	CCV1	CCV	06/13/17 14:29		OK
11	CCB1	CCB1	CCB	06/13/17 14:29		OK
12	PB99733BL	PB99733BL	MB	06/13/17 14:29		OK
13	I3634-05	SP-KEARNY-COMP	SAM	06/13/17 14:29		OK
14	I3634-05DUP	SP-KEARNY-COMP	DUP	06/13/17 14:29		OK
15	I3635-03	CL-02-061217-A	SAM	06/13/17 14:29		OK
16	I3635-06	CL-02-061217-B	SAM	06/13/17 14:29		OK
17	I3635-09	CL-02-061217-C	SAM	06/13/17 14:29		OK
18	I3635-12	CL-02-061217-D	SAM	06/13/17 14:29		OK
19	I3635-15	CL-02-061217-E	SAM	06/13/17 14:36		OK
20	I3636-03	OR-02-061217	SAM	06/13/17 14:36		OK
21	I3640-05	NF-DRUMS-STONE-	SAM	06/13/17 14:36		OK

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Daily Analysis Runlog For Sequence/QC Batch ID # LB88049

Review By		Review On				
SubDirectory		Test : Reactive Cyanide				
LB88049						
STD. NAME	STD REF.#					
ICAL Standard	WP55600,WP55601,WP55602,WP55603,WP55604,WP55605,WP55606,WP55607					
ICV Standard	WP55610					
CCV Standard	WP55609					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	N/A					
Chk Standard	WP55608,WP51626,WP55355					
22	CCV2	CCV2	CCV	06/13/17 14:36		OK
23	CCB2	CCB2	CCB	06/13/17 14:36		OK
24	I3640-10	NF-DRUMS-DEBRIS	SAM	06/13/17 14:36		OK
25	I3643-03	RO-VNJ217	SAM	06/13/17 14:36		OK
26	CCV3	CCV3	CCV	06/13/17 14:36		OK
27	CCB3	CCB3	CCB	06/13/17 14:36		OK