

Daily Analysis Runlog For Sequence/QC Batch ID # LB86402

Review By		Review On				
SubDirectory		LB86402		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP53558,WP53559,WP53560,WP53561,WP53562,WP53563,WP53564,WP53566				
ICV Standard		W1540				
CCV Standard		WP53568				
ICSA Standard						
CRI Standard						
LCS Standard		WP51099				
Chk Standard		WP53567,WP51626,WP51276				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/16/17 14:26		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/16/17 14:26		OK
3	10PPBCN	10PPBCN	CAL3	03/16/17 14:26		OK
4	50PPBCN	50PPBCN	CAL4	03/16/17 14:26		OK
5	100PPBCN	100PPBCN	CAL5	03/16/17 14:26		OK
6	250PPBCN	250PPBCN	CAL6	03/16/17 14:26		OK
7	500PPBCN	500PPBCN	CAL7	03/16/17 14:26		OK
8	ICV1	ICV1	ICV	03/16/17 15:49		OK
9	ICB1	ICB1	ICB	03/16/17 15:49		OK
10	CCV1	CCV1	CCV	03/16/17 15:49		OK
11	CCB1	CCB1	CCB	03/16/17 15:49		OK
12	PB97614BL	PB97614BL	MB	03/16/17 15:49		OK
13	PB97614BS	PB97614BS	LCS	03/16/17 15:49		OK
14	LOWPB97614	LOWPB97614	SAM	03/16/17 15:49		OK
15	HIGHPB97614	HIGHPB97614	SAM	03/16/17 15:49		OK
16	I2244-02	TEC-COMP	SAM	03/16/17 15:49		OK
17	I2244-02DUP	TEC-COMPDUP	DUP	03/16/17 15:56		OK
18	I2244-02MS	TEC-COMPMS	MS	03/16/17 15:56		OK
19	I2244-02MSD	TEC-COMPMSD	MSD	03/16/17 15:56		OK
20	I2258-01	GRINNELL-TOPSOIL	SAM	03/16/17 15:56		OK
21	I2261-01	TRAP-ROCK-FINES	SAM	03/16/17 15:56		OK

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

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STD. NAME		STD REF.#				
ICAL Standard		WP53558,WP53559,WP53560,WP53561,WP53562,WP53563,WP53564,WP53566				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard		WP51099				
Chk Standard		WP53567,WP51626,WP51276				
22	CCV2	CCV2	CCV	03/16/17 15:56		OK
23	CCB2	CCB2	CCB	03/16/17 15:56		OK
24	I2271-01	BHP-1	SAM	03/16/17 15:56		OK
25	I2271-03	BHP-2	SAM	03/16/17 15:56		OK
26	CCV3	CCV3	CCV	03/16/17 15:56		OK
27	CCB3	CCB3	CCB	03/16/17 15:56		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB86402	Date Received:	
Client Sample ID:	HIGHPB97614	SDG No.:	LB86402
Lab Sample ID:	HIGHPB97614	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.5		1	0.003		0.005	mg/L		03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/10/2017 12:00:00 AM
Project:	LB86402	Date Received:	3/10/2017 12:00:00 AM
Client Sample ID:	TEC-COMP	SDG No.:	LB86402
Lab Sample ID:	I2244-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0045	U	1	0.036		0.27	mg/Kg	03/16/2017	03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2017 12:00:00 AM
Project:	LB86402	Date Received:	3/13/2017 12:00:00 AM
Client Sample ID:	GRINNELL-TOPSOIL	SDG No.:	LB86402
Lab Sample ID:	I2258-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.017	U	1	0.038		0.29	mg/Kg	03/16/2017	03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2017 12:00:00 AM
Project:	LB86402	Date Received:	3/13/2017 12:00:00 AM
Client Sample ID:	TRAP-ROCK-FINES	SDG No.:	LB86402
Lab Sample ID:	I2261-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.07	U	1	0.038		0.28	mg/Kg	03/16/2017	03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2017 12:00:00 AM
Project:	LB86402	Date Received:	3/15/2017 12:00:00 AM
Client Sample ID:	BHP-1	SDG No.:	LB86402
Lab Sample ID:	I2271-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0048	U	1	0.034		0.26	mg/Kg	03/16/2017	03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2017 12:00:00 AM
Project:	LB86402	Date Received:	3/15/2017 12:00:00 AM
Client Sample ID:	BHP-2	SDG No.:	LB86402
Lab Sample ID:	I2271-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.042	U	1	0.034		0.26	mg/Kg	03/16/2017	03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86402	Date Received:	
Client Sample ID:	LOWPB97614	SDG No.:	LB86402
Lab Sample ID:	LOWPB97614	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0092		1	0.003		0.005	mg/L		03/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86402	Date Received:	
Client Sample ID:	LOWPB97614	SDG No.:	LB86402
Lab Sample ID:	LOWPB97614	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86402 SDG No.: LB86402
Contract: Lab Code: CHEM Case No.: LB86402 SAS No.: LB86402

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0011	+/-0.005	U		0.005		03/16/2017	15:49	LB86402



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86402

SDG No.: LB86402

Contract:

Lab Code: CHEM

Case No.: LB86402

SAS No.: LB86402

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0011	+/-0.005	U		0.005		03/16/2017	15:49	LB86402
CCB2	Cyanide	-0.0012	+/-0.005	U		0.005		03/16/2017	15:56	LB86402
CCB3	Cyanide	-0.0011	+/-0.005	U		0.005		03/16/2017	15:56	LB86402



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86402

SDG No.: LB86402

Contract: Lab Code: CHEM

Case No.: LB86402

SAS No.: LB86402

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB86402

SDG No.: LB86402

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
PB97614BL		SOLID		Batch Number:		PB97614		Prep Date:	03/16/2017	
	Cyanide	-0.042	<0.25	U		0.25		03/16/2017	15:49	LB86402



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86402 level: low sdg no.: LB86402
contract: lab code: CHEM case no.: LB86402 sas no.: LB86402
matrix: Solid sample id: I2244-02 client id: TEC-COMPMS
Percent Solids for Sample: 88.2 Spiked ID: I2244-02MS Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.036	U	2.2	86.4		



GENCHEM
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86402 level: low sdg no.: LB86402
contract: lab code: CHEM case no.: LB86402 sas no.: LB86402
matrix: Solid sample id: I2244-02 client id: TEC-COMPMSD
Percent Solids for Sample: 88.2 Spiked ID: I2244-02MSD Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.036	U	2.2	86.4		

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DUPLICATE SAMPLE SUMMARY

Client: LB86402 **Level:** LOW **SDG No.:** LB86402
Contract: **Lab Code:** CHEM **Case No.:** LB86402 **SAS No.:** LB86402
Matrix: Solid **Sample ID:** I2244-02 **Client ID:** TEC-COMPDUP
Percent Solids for Sample: 88.2 **Duplicate ID** I2244-02DUP **Percent Solids for Spike Sample:** 88.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.043	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86402 **Level:** LOW **SDG No.:** LB86402
Contract: **Lab Code:** CHEM **Case No.:** LB86402 **SAS No.:** LB86402
Matrix: Solid **Sample ID:** I2244-02MS **Client ID:** TEC-COMPMSD
Percent Solids for Sample: 88.2 **Duplicate ID** I2244-02MSD **Percent Solids for Spike Sample:** 88.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86402

SDG No.: LB86402

Contract:

Lab Code: CHEM

Case No.: LB86402

SAS No.: LB86402

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97614BS Cyanide	mg/Kg	5	5.0		100	85 - 115	