

Daily Analysis Runlog For Sequence/QC Batch ID # LB90574

Review By		Review On				
SubDirectory		LB90574		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58539,WP58540,WP58541,WP58543,WP58544,WP58537,WP58542				
ICV Standard		WP58546				
CCV Standard		WP58545				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58547				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/04/17 14:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/04/17 14:13		OK
3	10PPBCN	10PPBCN	CAL3	10/04/17 14:13		OK
4	50PPBCN	50PPBCN	CAL4	10/04/17 14:13		OK
5	100PPBCN	100PPBCN	CAL5	10/04/17 14:13		OK
6	250PPBCN	250PPBCN	CAL6	10/04/17 14:13		OK
7	500PPBCN	500PPBCN	CAL7	10/04/17 14:13		OK
8	ICV1	ICV1	ICV	10/04/17 16:25		OK
9	ICB1	ICB1	ICB	10/04/17 16:25		OK
10	CCV1	CCV1	CCV	10/04/17 16:25		OK
11	CCB1	CCB1	CCB	10/04/17 16:25		OK
12	PB102906BL	PB102906BL	MB	10/04/17 16:25		OK
13	PB102906BS	PB102906BS	LCS	10/04/17 16:25		OK
14	LOWPB102906	LOWPB102906	SAM	10/04/17 16:33		OK
15	HIGHPB102906	HIGHPB102906	SAM	10/04/17 16:33		OK
16	I5616-01	STONE-SP-A-COMP	SAM	10/04/17 16:33		OK
17	I5616-01DUP	STONE-SP-A-COMP	DUP	10/04/17 16:33		OK
18	I5616-01MS	STONE-SP-A-COMP	MS	10/04/17 16:33		OK
19	I5616-01MSD	STONE-SP-A-COMP	MSD	10/04/17 16:33		OK
20	I5616-05	STONE-SP-B-COMP	SAM	10/04/17 16:33		OK
21	I5637-01	B-18(0-10)COMP	SAM	10/04/17 16:33		OK

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

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SubDirectory		LB90574		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58539,WP58540,WP58541,WP58543,WP58544,WP58537,WP58542				
ICV Standard		WP58546				
CCV Standard		WP58545				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58547				
22	CCV2	CCV2	CCV	10/04/17 16:33		OK
23	CCB2	CCB2	CCB	10/04/17 16:33		OK
24	I5644-01	TP-9-COMP	SAM	10/04/17 16:39		OK
25	I5644-05	TP-10-11-COMP	SAM	10/04/17 16:39		OK
26	I5644-09	TP-12-13-COMP	SAM	10/04/17 16:39		OK
27	I5644-13	TP-14-COMP	SAM	10/04/17 16:39		OK
28	I5647-01	OK-02-100317	SAM	10/04/17 16:39		OK
29	CCV3	CCV3	CCV	10/04/17 16:39		OK
30	CCB3	CCB3	CCB	10/04/17 16:39		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90574	Date Received:	
Client Sample ID:	HIGHPB102906	SDG No.:	LB90574
Lab Sample ID:	HIGHPB102906	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	0.48		1	0.003		0.005	mg/L		10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	STONE-SP-A-COMP	SDG No.:	LB90574
Lab Sample ID:	I5616-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	J	1	0.033		0.25	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	STONE-SP-B-COMP	SDG No.:	LB90574
Lab Sample ID:	I5616-05	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.007	U	1	0.033		0.25	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	B-18(0-10)COMP	SDG No.:	LB90574
Lab Sample ID:	I5637-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.63		1	0.04		0.3	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-9-COMP	SDG No.:	LB90574
Lab Sample ID:	I5644-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.015	U	1	0.038		0.29	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-10-11-COMP	SDG No.:	LB90574
Lab Sample ID:	I5644-05	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	0.032	U	1	0.038		0.28	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-12-13-COMP	SDG No.:	LB90574
Lab Sample ID:	I5644-09	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0043	U	1	0.037		0.28	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-14-COMP	SDG No.:	LB90574
Lab Sample ID:	I5644-13	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0015	U	1	0.035		0.26	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90574	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	OK-02-100317	SDG No.:	LB90574
Lab Sample ID:	I5647-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0023	U	1	0.034		0.26	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90574	Date Received:	
Client Sample ID:	LOWPB102906	SDG No.:	LB90574
Lab Sample ID:	LOWPB102906	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	0.0091		1	0.003		0.005	mg/L		10/04/2017	9012B



Report of Analysis

Client:		Date Collected:	
Project:	LB90574	Date Received:	
Client Sample ID:	LOWPB102906	SDG No.:	LB90574
Lab Sample ID:	LOWPB102906	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90574

SDG No.: LB90574

Contract: _____

Lab Code: CHEM

Case No.: LB90574

SAS No.: LB90574

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	Cyanide	0.098	0.099	99	0	85 - 115		10/04/2017	16:25	LB90574



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90574

SDG No.: LB90574

Contract: _____ Lab Code: CHEM

Case No.: LB90574

SAS No.: LB90574

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	Cyanide	0.25	0.25	100	0	90 - 110		10/04/2017	16:25	LB90574
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		10/04/2017	16:33	LB90574
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		10/04/2017	16:39	LB90574



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90574 **SDG No.:** LB90574
Contract: **Lab Code:** CHEM **Case No.:** LB90574 **SAS No.:** LB90574

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00061	+/-0.005	U		0.005		10/04/2017	16:25	LB90574



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90574

SDG No.: LB90574

Contract:

Lab Code: CHEM

Case No.: LB90574

SAS No.: LB90574

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00036	+/-0.005	U		0.005		10/04/2017	16:25	LB90574
CCB2	Cyanide	0.00052	+/-0.005	U		0.005		10/04/2017	16:33	LB90574
CCB3	Cyanide	0.00064	+/-0.005	U		0.005		10/04/2017	16:39	LB90574



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90574

SDG No.: LB90574

Contract: Lab Code: CHEM

Case No.: LB90574

SAS No.: LB90574

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: LB90574

SDG No.: LB90574

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
PB102906BL	Cyanide	SOLID -0.0046	<0.24	Batch Number: U		PB102906 0.24		Prep Date: 10/04/2017	10/04/2017 16:25	LB90574



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90574 level: low sdg no.: LB90574
contract: lab code: CHEM case no.: LB90574 sas no.: LB90574
matrix: Solid sample id: I5616-01 client id: STONE-SP-A-COMPMS
Percent Solids for Sample: 95.8 Spiked ID: I5616-01MS Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.038	J	2	83		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90574 level: low sdg no.: LB90574
contract: lab code: CHEM case no.: LB90574 sas no.: LB90574
matrix: Solid sample id: I5616-01 client id: STONE-SP-A-COMPMSD
Percent Solids for Sample: 95.8 Spiked ID: I5616-01MSD Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.038	J	2	78		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90574 Level: LOW SDG No.: LB90574
Contract: _____ Lab Code: CHEM Case No.: LB90574 SAS No.: LB90574
Matrix: Solid Sample ID: I5616-01 Client ID: STONE-SP-A-COMPDUP
Percent Solids for Sample: 95.8 Duplicate ID I5616-01DUP Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.038	J	0.011	U	200.0	*	

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90574 **Level:** LOW **SDG No.:** LB90574
Contract: **Lab Code:** CHEM **Case No.:** LB90574 **SAS No.:** LB90574
Matrix: Solid **Sample ID:** I5616-01MS **Client ID:** STONE-SP-A-COMPMSD
Percent Solids for Sample: 95.8 **Duplicate ID** I5616-01MSD **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.6		6		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90574

SDG No.: LB90574

Contract:

Lab Code: CHEM

Case No.: LB90574

SAS No.: LB90574

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102906BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	