

Daily Analysis Runlog For Sequence/QC Batch ID # LB96119

Review By		Review On				
SubDirectory		LB96119		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65413,WP65414,WP65416,WP65417,WP65418,WP65419,WP65415				
ICV Standard		W1542				
CCV Standard		WP65420				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65422,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/19/18 11:21		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/19/18 11:21		OK
3	10PPBCN	10PPBCN	CAL3	06/19/18 11:21		OK
4	50PPBCN	50PPBCN	CAL4	06/19/18 11:21		OK
5	100PPBCN	100PPBCN	CAL5	06/19/18 11:21		OK
6	250PPBCN	250PPBCN	CAL6	06/19/18 11:21		OK
7	500PPBCN	500PPBCN	CAL7	06/19/18 11:21		OK
8	ICV1	ICV1	ICV	06/19/18 14:27		OK
9	ICB1	ICB1	ICB	06/19/18 14:27		OK
10	CCV1	CCV1	CCV	06/19/18 14:27		OK
11	CCB1	CCB1	CCB	06/19/18 14:27		OK
12	PB110385BL	PB110385BL	MB	06/19/18 14:27		OK
13	PB110385BS	PB110385BS	LCS	06/19/18 14:27		OK
14	LOWPB110385	LOWPB110385	SAM	06/19/18 14:27		OK
15	HIGHPB110385	HIGHPB110385	SAM	06/19/18 14:27		OK
16	J3249-01	PL-01-061818-A	SAM	06/19/18 14:27		OK
17	J3249-01DUP	PL-01-061818-ADUP	DUP	06/19/18 14:27		OK
18	J3249-01MS	PL-01-061818-AMS	MS	06/19/18 14:27		OK
19	J3249-01MSD	PL-01-061818-AMSD	MSD	06/19/18 14:34		OK
20	J3249-03	PL-01-061818-B	SAM	06/19/18 14:34		OK
21	J3249-05	PL-01-061818-C	SAM	06/19/18 14:34		OK

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

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ICV Standard		W1542				
CCV Standard		WP65420				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65422,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/19/18 14:34		OK
23	CCB2	CCB2	CCB	06/19/18 14:34		OK
24	J3249-07	PL-01-061818-D	SAM	06/19/18 14:34		OK
25	J3249-09	PL-01-061818-E	SAM	06/19/18 14:34		OK
26	J3575-02	TP-9	SAM	06/19/18 14:35		OK
27	J3575-06	TP-10	SAM	06/19/18 14:35		OK
28	J3575-10	TP-12	SAM	06/19/18 14:35		OK
29	J3575-14	TP-11-S	SAM	06/19/18 14:35		OK
30	J3575-18	TP-11-D	SAM	06/19/18 14:39		OK
31	J3575-21	TP-13	SAM	06/19/18 14:39		OK
32	CCV3	CCV3	CCV	06/19/18 14:39		OK
33	CCB3	CCB3	CCB	06/19/18 14:39		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB96119	Date Received:	
Client Sample ID:	HIGHPB110385	SDG No.:	LB96119
Lab Sample ID:	HIGHPB110385	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	0.49		1	0.003		0.005	mg/L		06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	PL-01-061818-A	SDG No.:	LB96119
Lab Sample ID:	J3249-01	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	0.075	J	1	0.035		0.26	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	PL-01-061818-B	SDG No.:	LB96119
Lab Sample ID:	J3249-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.036		0.27	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	PL-01-061818-C	SDG No.:	LB96119
Lab Sample ID:	J3249-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.034		0.26	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	PL-01-061818-D	SDG No.:	LB96119
Lab Sample ID:	J3249-07	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.
57-12-5	Cyanide	-0.0026	U	1	0.034		0.26	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	PL-01-061818-E	SDG No.:	LB96119
Lab Sample ID:	J3249-09	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0013	U	1	0.034		0.26	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-9	SDG No.:	LB96119
Lab Sample ID:	J3575-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.038		0.29	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB96119
Lab Sample ID:	J3575-06	Matrix:	Solid
Level (low/med):	low	% Solid:	85.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.042	J	1	0.038		0.28	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-12	SDG No.:	LB96119
Lab Sample ID:	J3575-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.014	U	1	0.037		0.28	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-11-S	SDG No.:	LB96119
Lab Sample ID:	J3575-14	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

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	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-11-D	SDG No.:	LB96119
Lab Sample ID:	J3575-18	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.016	U	1	0.037		0.28	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/16/2018 12:00:00 AM
Project:	LB96119	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-13	SDG No.:	LB96119
Lab Sample ID:	J3575-21	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.014	U	1	0.036		0.28	mg/Kg	06/19/2018	06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96119	Date Received:	
Client Sample ID:	LOWPB110385	SDG No.:	LB96119
Lab Sample ID:	LOWPB110385	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	0.0098		1	0.003		0.005	mg/L		06/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96119	Date Received:	
Client Sample ID:	LOWPB110385	SDG No.:	LB96119
Lab Sample ID:	LOWPB110385	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: LB96119

SDG No.: LB96119

Contract: _____ Lab Code: CHEM

Case No.: LB96119

SAS No.: LB96119

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		06/19/2018	14:27	LB96119
CCV2	Cyanide	0.25	0.25	100		90 - 110		06/19/2018	14:34	LB96119
CCV3	Cyanide	0.26	0.25	104		90 - 110		06/19/2018	14:39	LB96119



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96119

SDG No.: LB96119

Contract:

Lab Code: CHEM

Case No.: LB96119

SAS No.: LB96119

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00017	+/-0.005	U		0.005		06/19/2018	14:27	LB96119

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00033	+/-0.005	U		0.005		06/19/2018	14:27	LB96119
CCB2	Cyanide	0.00045	+/-0.005	U		0.005		06/19/2018	14:34	LB96119
CCB3	Cyanide	-0.00023	+/-0.005	U		0.005		06/19/2018	14:39	LB96119



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>LB96119</u>	SDG No.:	<u>LB96119</u>				
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB96119</u>	SAS No.:	<u>LB96119</u>

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: LB96119

SDG No.: LB96119

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
PB110385BL		SOLID		Batch Number:		PB110385		Prep Date:	06/19/2018	
	Cyanide	-0.021	<0.25	U		0.25		06/19/2018	14:27	LB96119



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96119 level: low sdg no.: LB96119
contract: lab code: CHEM case no.: LB96119 sas no.: LB96119
matrix: Solid sample id: J3249-01 client id: PL-01-061818-AMS
Percent Solids for Sample: 93.7 Spiked ID: J3249-01MS Percent Solids for Spike Sample: 93.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.075	J	2.1	82		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96119 level: low sdg no.: LB96119
contract: lab code: CHEM case no.: LB96119 sas no.: LB96119
matrix: Solid sample id: J3249-01 client id: PL-01-061818-AMSD
Percent Solids for Sample: 93.7 Spiked ID: J3249-01MSD Percent Solids for Spike Sample: 93.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.075	J	2.1	87		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB96119 **Level:** LOW **SDG No.:** LB96119
Contract: **Lab Code:** CHEM **Case No.:** LB96119 **SAS No.:** LB96119
Matrix: Solid **Sample ID:** J3249-01 **Client ID:** PL-01-061818-ADUP
Percent Solids for Sample: 93.7 **Duplicate ID** J3249-01DUP **Percent Solids for Spike Sample:** 93.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.075	J	0.044	J	52	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB96119 **Level:** LOW **SDG No.:** LB96119
Contract: **Lab Code:** CHEM **Case No.:** LB96119 **SAS No.:** LB96119
Matrix: Solid **Sample ID:** J3249-01MS **Client ID:** PL-01-061818-AMSD
Percent Solids for Sample: 93.7 **Duplicate ID** J3249-01MSD **Percent Solids for Spike Sample:** 93.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.9		5		

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110385BS							
Cyanide	mg/Kg	5	4.9		98	85 - 115	