

Daily Analysis Runlog For Sequence/QC Batch ID # LB93934

Review By		Review On				
SubDirectory		LB93934		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62749,WP62750,WP62751,WP62752,WP62753,WP62754,WP62755				
ICV Standard		W1542				
CCV Standard		WP62756				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62758,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/15/18 13:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/15/18 13:14		OK
3	10PPBCN	10PPBCN	CAL3	03/15/18 13:14		OK
4	50PPBCN	50PPBCN	CAL4	03/15/18 13:14		OK
5	100PPBCN	100PPBCN	CAL5	03/15/18 13:14		OK
6	250PPBCN	250PPBCN	CAL6	03/15/18 13:14		OK
7	500PPBCN	500PPBCN	CAL7	03/15/18 13:15		OK
8	ICV1	ICV1	ICV	03/15/18 13:51		OK
9	ICB1	ICB1	ICB	03/15/18 13:51		OK
10	CCV1	CCV1	CCV	03/15/18 13:51		OK
11	CCB1	CCB1	CCB	03/15/18 13:51		OK
12	PB107379BL	PB107379BL	MB	03/15/18 13:51		OK
13	PB107379BS	PB107379BS	LCS	03/15/18 13:51		OK
14	LOWPB107379	LOWPB107379	SAM	03/15/18 13:51		OK
15	HIGHPB107379	HIGHPB107379	SAM	03/15/18 13:51		OK
16	J1752-01MS	NB-08-031418MS	MS	03/15/18 13:52		OK
17	J1752-01MSD	NB-08-031418MSD	MSD	03/15/18 13:59		OK
18	J1757-01	EO-01-031418-A	SAM	03/15/18 13:59		OK
19	J1757-03	EO-01-031418-B	SAM	03/15/18 13:59		OK
20	CCV2	CCV2	CCV	03/15/18 13:59		OK
21	CCB2	CCB2	CCB	03/15/18 13:59		OK

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SubDirectory		LB93934		Test : Cyanide		
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ICV Standard		W1542				
CCV Standard		WP62756				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62758,WP59958,WP60878				
22	J1757-05	EO-01-031418-C	SAM	03/15/18 13:59		OK
23	J1927-01	FK-BPM-01-C01-C01	SAM	03/15/18 13:59		OK
24	J1928-01	FK-BPM-01-E01-E01	SAM	03/15/18 13:59		OK
25	J1929-01	LS-PIT-1	SAM	03/15/18 13:59		OK
26	J1929-05	LS-PIT-2	SAM	03/15/18 13:59		OK
27	PB107380BL	PB107380BL	MB	03/15/18 14:06		OK
28	PB107380BS	PB107380BS	LCS	03/15/18 14:06		OK
29	J1917-01	MH-6	SAM	03/15/18 14:06		OK
30	J1917-01DUP	MH-6DUP	DUP	03/15/18 14:07		OK
31	CCV3	CCV3	CCV	03/15/18 14:07		OK
32	CCB3	CCB3	CCB	03/15/18 14:07		OK
33	J1917-01MS	MH-6MS	MS	03/15/18 14:07		OK
34	J1917-01MSD	MH-6MSD	MSD	03/15/18 14:07		OK
35	J1929-09	LS-PIT-3	SAM	03/15/18 14:25		OK
36	J1752-01	NB-08-031418	SAM	03/15/18 14:36		OK
37	J1752-01DUP	NB-08-031418DUP	DUP	03/15/18 14:39		OK
38	CCV4	CCV4	CCV	03/15/18 14:39		OK
39	CCB4	CCB4	CCB	03/15/18 14:39		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93934	Date Received:	
Client Sample ID:	HIGHPB107379	SDG No.:	LB93934
Lab Sample ID:	HIGHPB107379	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		03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	NB-08-031418	SDG No.:	LB93934
Lab Sample ID:	J1752-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.04		0.3	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	EO-01-031418-A	SDG No.:	LB93934
Lab Sample ID:	J1757-01	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	0.089	J	1	0.039		0.3	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	EO-01-031418-B	SDG No.:	LB93934
Lab Sample ID:	J1757-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.087	J	1	0.038		0.29	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	EO-01-031418-C	SDG No.:	LB93934
Lab Sample ID:	J1757-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	J	1	0.037		0.28	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB93934
Lab Sample ID:	J1917-01	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	0.0026	U	1	0.003		0.005	mg/L	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	FK-BPM-01-C01-C01A-D01-D01A	SDG No.:	LB93934
Lab Sample ID:	J1927-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.036		0.27	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	FK-BPM-01-E01-E01A-F01-F01A	SDG No.:	LB93934
Lab Sample ID:	J1928-01	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.
57-12-5	Cyanide	0.27		1	0.036		0.27	mg/Kg	03/15/2018	03/15/2018	9012B

Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	LS-PIT-1	SDG No.:	LB93934
Lab Sample ID:	J1929-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.01	U	1	0.038		0.29	mg/Kg	03/15/2018	03/15/2018	9012B

Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	LS-PIT-2	SDG No.:	LB93934
Lab Sample ID:	J1929-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.038		0.29	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/14/2018 12:00:00 AM
Project:	LB93934	Date Received:	3/14/2018 12:00:00 AM
Client Sample ID:	LS-PIT-3	SDG No.:	LB93934
Lab Sample ID:	J1929-09	Matrix:	Solid
Level (low/med):	low	% Solid:	82.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00052	U	1	0.038		0.29	mg/Kg	03/15/2018	03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93934	Date Received:	
Client Sample ID:	LOWPB107379	SDG No.:	LB93934
Lab Sample ID:	LOWPB107379	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		03/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93934	Date Received:	
Client Sample ID:	LOWPB107379	SDG No.:	LB93934
Lab Sample ID:	LOWPB107379	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: LB93934

SDG No.: LB93934

Contract: _____

Lab Code: CHEM

Case No.: LB93934

SAS No.: LB93934

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
ICV1	Cyanide	0.099	0.099	100		85 - 115		03/15/2018	13:51	LB93934



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93934

SDG No.: LB93934

Contract: _____ Lab Code: CHEM

Case No.: LB93934

SAS No.: LB93934

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	0.25	0.25	100		90 - 110		03/15/2018	13:51	LB93934
CCV2	Cyanide	0.25	0.25	100		90 - 110		03/15/2018	13:59	LB93934
CCV3	Cyanide	0.25	0.25	100		90 - 110		03/15/2018	14:07	LB93934
CCV4	Cyanide	0.26	0.25	104		90 - 110		03/15/2018	14:39	LB93934



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93934

SDG No.: LB93934

Contract:

Lab Code: CHEM

Case No.: LB93934

SAS No.: LB93934

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00029	+/-0.005	U		0.005		03/15/2018	13:51	LB93934

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00013	+/-0.005	U		0.005		03/15/2018	13:51	LB93934
CCB2	Cyanide	0.00034	+/-0.005	U		0.005		03/15/2018	13:59	LB93934
CCB3	Cyanide	0.00029	+/-0.005	U		0.005		03/15/2018	14:07	LB93934
CCB4	Cyanide	0.00012	+/-0.005	U		0.005		03/15/2018	14:39	LB93934



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93934

SDG No.: LB93934

Contract: Lab Code: CHEM

Case No.: LB93934

SAS No.: LB93934

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: LB93934

SDG No.: LB93934

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
PB107379BL	Cyanide	SOLID		Batch Number:		PB107379		Prep Date:	03/15/2018	
		-0.0011	<0.24	U		0.24		03/15/2018	13:51	LB93934
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107380BL	Cyanide	WATER		Batch Number:		PB107380		Prep Date:	03/15/2018	
		0.0001	<0.005	U		0.005		03/15/2018	14:06	LB93934



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93934 level: low sdg no.: LB93934
contract: lab code: CHEM case no.: LB93934 sas no.: LB93934
matrix: Solid sample id: J1752-01 client id: NB-08-031418MS
Percent Solids for Sample: 81.1 Spiked ID: J1752-01MS Percent Solids for Spike Sample: 81.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.04	U	2.4	70.8	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93934 level: low sdg no.: LB93934
contract: lab code: CHEM case no.: LB93934 sas no.: LB93934
matrix: Solid sample id: J1752-01 client id: NB-08-031418MSD
Percent Solids for Sample: 81.1 Spiked ID: J1752-01MSD Percent Solids for Spike Sample: 81.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.04	U	2.4	70.8	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93934 level: low sdg no.: LB93934
contract: lab code: CHEM case no.: LB93934 sas no.: LB93934
matrix: WATER sample id: J1917-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: J1917-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.037		0.003	U	0.04	92.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93934 level: low sdg no.: LB93934
contract: lab code: CHEM case no.: LB93934 sas no.: LB93934
matrix: WATER sample id: J1917-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: J1917-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.037		0.003	U	0.04	92.5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93934 **Level:** LOW **SDG No.:** LB93934
Contract: **Lab Code:** CHEM **Case No.:** LB93934 **SAS No.:** LB93934
Matrix: Solid **Sample ID:** J1752-01 **Client ID:** NB-08-031418DUP
Percent Solids for Sample: 81.1 **Duplicate ID** J1752-01DUP **Percent Solids for Spike Sample:** 81.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.04	U	0.05	J	200.0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93934 Level: LOW SDG No.: LB93934
Contract: _____ Lab Code: CHEM Case No.: LB93934 SAS No.: LB93934
Matrix: Solid Sample ID: J1752-01MS Client ID: NB-08-031418MSD
Percent Solids for Sample: 81.1 Duplicate ID J1752-01MSD Percent Solids for Spike Sample: 81.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93934 **Level:** LOW **SDG No.:** LB93934
Contract: **Lab Code:** CHEM **Case No.:** LB93934 **SAS No.:** LB93934
Matrix: WATER **Sample ID:** J1917-01 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** J1917-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.0027	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93934 **Level:** LOW **SDG No.:** LB93934
Contract: **Lab Code:** CHEM **Case No.:** LB93934 **SAS No.:** LB93934
Matrix: WATER **Sample ID:** J1917-01MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** J1917-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.037		0.037		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93934

SDG No.: LB93934

Contract:

Lab Code: CHEM

Case No.: LB93934

SAS No.: LB93934

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107379BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	

