

Daily Analysis Runlog For Sequence/QC Batch ID # LB94151

Review By		Review On				
SubDirectory		LB94151		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63016,WP63017,WP63018,WP63019,WP63020,WP63021,WP63022				
ICV Standard		W1542				
CCV Standard		WP63023				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63026,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/26/18 10:09		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/26/18 10:09		OK
3	10PPBCN	10PPBCN	CAL3	03/26/18 10:09		OK
4	50PPBCN	50PPBCN	CAL4	03/26/18 10:09		OK
5	100PPBCN	100PPBCN	CAL5	03/26/18 10:09		OK
6	250PPBCN	250PPBCN	CAL6	03/26/18 10:09		OK
7	500PPBCN	500PPBCN	CAL7	03/26/18 10:09		OK
8	ICV1	ICV1	ICV	03/26/18 14:30		OK
9	ICB1	ICB1	ICB	03/26/18 14:30		OK
10	CCV1	CCV1	CCV	03/26/18 14:30		OK
11	CCB1	CCB1	CCB	03/26/18 14:30		OK
12	PB107637BL	PB107637BL	MB	03/26/18 14:30		OK
13	PB107637BS	PB107637BS	LCS	03/26/18 14:30		OK
14	J1758-01	PL-02-032318-A	SAM	03/26/18 14:30		OK
15	J1758-01DUP	PL-02-032318-ADUP	DUP	03/26/18 14:30		OK
16	J1758-01MS	PL-02-032318-AMS	MS	03/26/18 14:30		OK
17	J1758-01MSD	PL-02-032318-AMSD	MSD	03/26/18 14:37		OK
18	J1758-03	PL-02-032318-B	SAM	03/26/18 14:37		OK
19	J1758-05	PL-02-032318-C	SAM	03/26/18 14:37		OK
20	CCV2	CCV2	CCV	03/26/18 14:37		OK
21	CCB2	CCB2	CCB	03/26/18 14:37		OK

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SubDirectory		LB94151		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63016,WP63017,WP63018,WP63019,WP63020,WP63021,WP63022				
ICV Standard		W1542				
CCV Standard		WP63023				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63026,WP59958,WP60878				
22	J1758-07	PL-02-032318-D	SAM	03/26/18 14:37		OK
23	J1760-05	SU-04-032318-A	SAM	03/26/18 14:37		OK
24	J1760-07	SU-04-032318-B	SAM	03/26/18 14:37		OK
25	J2050-01	TP-2-MH-C	SAM	03/26/18 14:37		OK
26	J2050-04	TP-3-DB	SAM	03/26/18 14:37		OK
27	J2052-01	TP-BS	SAM	03/26/18 14:37		OK
28	J2052-03	TP-BD	SAM	03/26/18 14:41		OK
29	CCV3	CCV3	CCV	03/26/18 14:41		OK
30	CCB3	CCB3	CCB	03/26/18 14:41		OK
31	LOWPB107637	LOWPB107637	SAM	03/26/18 15:08		OK
32	HIGHPB107637	HIGHPB107637	SAM	03/26/18 15:08		OK
33	CCV4	CCV4	CCV	03/26/18 15:08		OK
34	CCB4	CCB4	CCB	03/26/18 15:08		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94151	Date Received:	
Client Sample ID:	HIGHPB107637	SDG No.:	LB94151
Lab Sample ID:	HIGHPB107637	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	0.52	OR	1	0.003		0.005	mg/L		03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-A	SDG No.:	LB94151
Lab Sample ID:	J1758-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.039		0.29	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-B	SDG No.:	LB94151
Lab Sample ID:	J1758-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0045	U	1	0.04		0.3	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-C	SDG No.:	LB94151
Lab Sample ID:	J1758-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	U	1	0.038		0.29	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-D	SDG No.:	LB94151
Lab Sample ID:	J1758-07	Matrix:	Solid
Level (low/med):	low	% Solid:	82.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.038		0.29	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	SU-04-032318-A	SDG No.:	LB94151
Lab Sample ID:	J1760-05	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	-0.001	U	1	0.036		0.27	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	SU-04-032318-B	SDG No.:	LB94151
Lab Sample ID:	J1760-07	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	-0.031	U	1	0.037		0.28	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-2-MH-C	SDG No.:	LB94151
Lab Sample ID:	J2050-01	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	0.23	J	1	0.038		0.29	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-3-DB	SDG No.:	LB94151
Lab Sample ID:	J2050-04	Matrix:	Solid
Level (low/med):	low	% Solid:	80

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.66		1	0.04		0.3	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-BS	SDG No.:	LB94151
Lab Sample ID:	J2052-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.013	U	1	0.036		0.27	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94151	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-BD	SDG No.:	LB94151
Lab Sample ID:	J2052-03	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	-0.027	U	1	0.036		0.27	mg/Kg	03/26/2018	03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94151	Date Received:	
Client Sample ID:	LOWPB107637	SDG No.:	LB94151
Lab Sample ID:	LOWPB107637	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		03/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94151	Date Received:	
Client Sample ID:	LOWPB107637	SDG No.:	LB94151
Lab Sample ID:	LOWPB107637	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: LB94151

SDG No.: LB94151

Contract: _____ Lab Code: CHEM

Case No.: LB94151

SAS No.: LB94151

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		03/26/2018	14:30	LB94151



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94151

SDG No.: LB94151

Contract: _____ Lab Code: CHEM

Case No.: LB94151

SAS No.: LB94151

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		03/26/2018	14:30	LB94151
CCV2	Cyanide	0.25	0.25	100		90 - 110		03/26/2018	14:37	LB94151
CCV3	Cyanide	0.27	0.25	108		90 - 110		03/26/2018	14:41	LB94151
CCV4	Cyanide	0.27	0.25	108		90 - 110		03/26/2018	15:08	LB94151



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94151 **SDG No.:** LB94151
Contract: **Lab Code:** CHEM **Case No.:** LB94151 **SAS No.:** LB94151

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0001	+/-0.005	U		0.005		03/26/2018	14:30	LB94151

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		03/26/2018	14:30	LB94151
CCB2	Cyanide	-0.00034	+/-0.005	U		0.005		03/26/2018	14:37	LB94151
CCB3	Cyanide	-0.00073	+/-0.005	U		0.005		03/26/2018	14:41	LB94151
CCB4	Cyanide	-0.00047	+/-0.005	U		0.005		03/26/2018	15:08	LB94151



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94151

SDG No.: LB94151

Contract: Lab Code: CHEM

Case No.: LB94151

SAS No.: LB94151

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: LB94151

SDG No.: LB94151

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
PB107637BL	Cyanide	SOLID -0.019	<0.25	Batch Number: U		PB107637 0.25		Prep Date: 03/26/2018	03/26/2018 14:30	LB94151



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94151 level: low sdg no.: LB94151
contract: lab code: CHEM case no.: LB94151 sas no.: LB94151
matrix: Solid sample id: J1758-01 client id: PL-02-032318-AMS
Percent Solids for Sample: 83.8 Spiked ID: J1758-01MS Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.1	J	2.3	78		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94151 level: low sdg no.: LB94151
contract: lab code: CHEM case no.: LB94151 sas no.: LB94151
matrix: Solid sample id: J1758-01 client id: PL-02-032318-AMSD
Percent Solids for Sample: 83.8 Spiked ID: J1758-01MSD Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.1	J	2.4	75		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94151 **Level:** LOW **SDG No.:** LB94151
Contract: **Lab Code:** CHEM **Case No.:** LB94151 **SAS No.:** LB94151
Matrix: Solid **Sample ID:** J1758-01 **Client ID:** PL-02-032318-ADUP
Percent Solids for Sample: 83.8 **Duplicate ID** J1758-01DUP **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.1	J	0.075	J	29	*	

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

Client: LB94151 **Level:** LOW **SDG No.:** LB94151
Contract: **Lab Code:** CHEM **Case No.:** LB94151 **SAS No.:** LB94151
Matrix: Solid **Sample ID:** J1758-01MS **Client ID:** PL-02-032318-AMSD
Percent Solids for Sample: 83.8 **Duplicate ID** J1758-01MSD **Percent Solids for Spike Sample:** 83.8

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



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94151 SDG No.: LB94151
Contract: Lab Code: CHEM Case No.: LB94151 SAS No.: LB94151

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107637BS Cyanide	mg/Kg	4.8	4.8		100	85 - 115	
