

Daily Analysis Runlog For Sequence/QC Batch ID # LB94838

Review By

Review On

SubDirectory

LB94838

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		W1542				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63925,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/24/18 08:36		
2	5.0PPBCN	5.0PPBCN	CAL2	04/24/18 08:36		
3	10PPBCN	10PPBCN	CAL3	04/24/18 08:36		
4	50PPBCN	50PPBCN	CAL4	04/24/18 08:36		
5	100PPBCN	100PPBCN	CAL5	04/24/18 08:36		
6	250PPBCN	250PPBCN	CAL6	04/24/18 08:36		
7	500PPBCN	500PPBCN	CAL7	04/24/18 08:36		
8	ICV1	ICV1	ICV	04/24/18 10:10		
9	ICB1	ICB1	ICB	04/24/18 10:10		
10	CCV1	CCV1	CCV	04/24/18 10:10		
11	CCB1	CCB1	CCB	04/24/18 10:10		
12	PB108492BL	PB108492BL	MB	04/24/18 10:10		
13	PB108492BS	PB108492BS	LCS	04/24/18 10:10		
14	LOWPB108492	LOWPB108492	SAM	04/24/18 10:10		
15	HIGHPB108492	HIGHPB108492	SAM	04/24/18 10:10		
16	J2152-03	BU-03-042018	SAM	04/24/18 10:10		
17	J2152-03DUP	BU-03-042018DUP	DUP	04/24/18 10:10		
18	J2152-03MS	BU-03-042018MS	MS	04/24/18 10:10		
19	J2152-03MSD	BU-03-042018MSD	MSD	04/24/18 10:17		
20	J2161-05	OR-03-042018	SAM	04/24/18 10:17		
21	J2493-01	RS-RO-RT-27438	SAM	04/24/18 10:17		

Daily Analysis Runlog For Sequence/QC Batch ID # LB94838

Review By		Review On				
SubDirectory		LB94838		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		W1542				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63925,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/24/18 10:17		
23	CCB2	CCB2	CCB	04/24/18 10:17		
24	J2495-01	RS-RO-1-7-A	SAM	04/24/18 10:17		
25	J2495-03	RS-RO-1-7-B	SAM	04/24/18 10:17		
26	J2496-01	RS-RO-1-3	SAM	04/24/18 10:18		
27	J2499-01	355-285-279	SAM	04/24/18 10:18		
28	J2499-03	278	SAM	04/24/18 10:18		
29	J2500-01	RBR-400028-2171	SAM	04/24/18 10:18		
30	PB108493BL	PB108493BL	MB	04/24/18 10:25		
31	PB108493BS	PB108493BS	LCS	04/24/18 10:25		
32	J2503-01	DRUM-2-1-PPE	SAM	04/24/18 10:25		
33	J2503-01DUP	DRUM-2-1-PPEDUP	DUP	04/24/18 10:25		
34	CCV3	CCV3	CCV	04/24/18 10:25		
35	CCB3	CCB3	CCB	04/24/18 10:25		
36	J2503-03	CONCRETE	SAM	04/24/18 10:25		
37	J2503-05	RBR-47184RT	SAM	04/24/18 10:25		
38	J2503-07	CHRT25773	SAM	04/24/18 10:25		
39	PB108494BL	PB108494BL	MB	04/24/18 10:33		
40	PB108494BS	PB108494BS	LCS	04/24/18 10:33		
41	J2498-01	VB16206-VB16122	SAM	04/24/18 10:33		
42	J2498-01DUP	VB16206-VB16122D	DUP	04/24/18 10:33		
43	J2498-01MS	VB16206-VB16122M	MS	04/24/18 10:33		

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Daily Analysis Runlog For Sequence/QC Batch ID # LB94838

Review By			Review On			
SubDirectory		LB94838		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		W1542				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63925,WP59958,WP60878				
44	CCV4	CCV4	CCV	04/24/18 10:33		
45	CCB4	CCB4	CCB	04/24/18 10:33		
46	J2498-01MSD	VB16206-VB16122M	MSD	04/24/18 10:33		
47	J2501-02	FADW4807L	SAM	04/24/18 10:33		
48	J2503-01MS	DRUM-2-1-PPEMS	MS	04/24/18 10:58		
49	J2503-01MSD	DRUM-2-1-PPEMSD	MSD	04/24/18 10:58		
50	CCV5	CCV5	CCV	04/24/18 10:58		
51	CCB5	CCB5	CCB	04/24/18 10:58		



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Report of Analysis

Client:		Date Collected:	
Project:	LB94838	Date Received:	
Client Sample ID:	HIGHPB108492	SDG No.:	LB94838
Lab Sample ID:	HIGHPB108492	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	OR	1	0.003		0.005	mg/L		04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	BU-03-042018	SDG No.:	LB94838
Lab Sample ID:	J2152-03	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	0.11	J	1	0.037		0.28	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	OR-03-042018	SDG No.:	LB94838
Lab Sample ID:	J2161-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.034		0.26	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-RT-27438	SDG No.:	LB94838
Lab Sample ID:	J2493-01	Matrix:	Solid
Level (low/med):	low	% Solid:	55.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.35	J	1	0.059		0.44	mg/Kg	04/23/2018	04/24/2018	9012B

Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-7-A	SDG No.:	LB94838
Lab Sample ID:	J2495-01	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	0.046	J	1	0.039		0.3	mg/Kg	04/23/2018	04/24/2018	9012B

Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-7-B	SDG No.:	LB94838
Lab Sample ID:	J2495-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.039		0.29	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-3	SDG No.:	LB94838
Lab Sample ID:	J2496-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.036		0.27	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	VB16206-VB16122	SDG No.:	LB94838
Lab Sample ID:	J2498-01	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	0.19		1	0.003		0.005	mg/L	04/23/2018	04/24/2018	9012B

Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	355-285-279	SDG No.:	LB94838
Lab Sample ID:	J2499-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.041	J	1	0.038		0.29	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	278	SDG No.:	LB94838
Lab Sample ID:	J2499-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.017	U	1	0.035		0.26	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RBR-400028-2171	SDG No.:	LB94838
Lab Sample ID:	J2500-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0088	U	1	0.034		0.26	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	FADW4807L	SDG No.:	LB94838
Lab Sample ID:	J2501-02	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	0.0011	U	1	0.003		0.005	mg/L	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	DRUM-2-1-PPE	SDG No.:	LB94838
Lab Sample ID:	J2503-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.032		0.24	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	CONCRETE	SDG No.:	LB94838
Lab Sample ID:	J2503-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.031		0.23	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RBR-47184RT	SDG No.:	LB94838
Lab Sample ID:	J2503-05	Matrix:	Solid
Level (low/med):	low	% Solid:	81.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.037		0.28	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94838	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	CHRT25773	SDG No.:	LB94838
Lab Sample ID:	J2503-07	Matrix:	Solid
Level (low/med):	low	% Solid:	76.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.7		1	0.041		0.31	mg/Kg	04/23/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94838	Date Received:	
Client Sample ID:	LOWPB108492	SDG No.:	LB94838
Lab Sample ID:	LOWPB108492	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		04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94838	Date Received:	
Client Sample ID:	LOWPB108492	SDG No.:	LB94838
Lab Sample ID:	LOWPB108492	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: LB94838

SDG No.: LB94838

Contract: _____ Lab Code: CHEM

Case No.: LB94838

SAS No.: LB94838

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		04/24/2018	10:10	LB94838
CCV2	Cyanide	0.25	0.25	100		90 - 110		04/24/2018	10:17	LB94838
CCV3	Cyanide	0.25	0.25	100		90 - 110		04/24/2018	10:25	LB94838
CCV4	Cyanide	0.26	0.25	104		90 - 110		04/24/2018	10:33	LB94838
CCV5	Cyanide	0.27	0.25	108		90 - 110		04/24/2018	10:58	LB94838



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94838

SDG No.: LB94838

Contract:

Lab Code: CHEM

Case No.: LB94838

SAS No.: LB94838

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00076	+/-0.005	U		0.005		04/24/2018	10:10	LB94838

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00025	+/-0.005	U		0.005		04/24/2018	10:10	LB94838
CCB2	Cyanide	-0.00045	+/-0.005	U		0.005		04/24/2018	10:17	LB94838
CCB3	Cyanide	0.00058	+/-0.005	U		0.005		04/24/2018	10:25	LB94838
CCB4	Cyanide	0.00012	+/-0.005	U		0.005		04/24/2018	10:33	LB94838
CCB5	Cyanide	0.0002	+/-0.005	U		0.005		04/24/2018	10:58	LB94838



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB94838

SDG No.:

LB94838

Contract:

Lab Code:

CHEM

Case No.:

LB94838

SAS No.:

LB94838

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: LB94838

SDG No.: LB94838

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
PB108492BL	Cyanide	SOLID		Batch Number:		PB108492		Prep Date:	04/23/2018	
		0.076	<0.25	J		0.25		04/24/2018	10:10	LB94838
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB108493BL	Cyanide	SOLID		Batch Number:		PB108493		Prep Date:	04/23/2018	
		0.0039	<0.25	U		0.25		04/24/2018	10:25	LB94838
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108494BL	Cyanide	WATER		Batch Number:		PB108494		Prep Date:	04/23/2018	
		0.00044	<0.005	U		0.005		04/24/2018	10:33	LB94838



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: Solid sample id: J2152-03 client id: BU-03-042018MS
Percent Solids for Sample: 86.3 Spiked ID: J2152-03MS Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.11	J	2.3	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: Solid sample id: J2152-03 client id: BU-03-042018MSD
Percent Solids for Sample: 86.3 Spiked ID: J2152-03MSD Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.11	J	2.2	86		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: WATER sample id: J2498-01 client id: VB16206-VB16122MS
Percent Solids for Sample: 0 Spiked ID: J2498-01MS 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	0.24		0.19		0.04	125		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: WATER sample id: J2498-01 client id: VB16206-VB16122MSD
Percent Solids for Sample: 0 Spiked ID: J2498-01MSD 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	0.25		0.19		0.04	150	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: Solid sample id: J2503-01 client id: DRUM-2-1-PPEMS
Percent Solids for Sample: 100 Spiked ID: J2503-01MS Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.3		0.063	J	1.9	65	*	



GENCHEM
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB94838 level: low sdg no.: LB94838
contract: lab code: CHEM case no.: LB94838 sas no.: LB94838
matrix: Solid sample id: J2503-01 client id: DRUM-2-1-PPEMSD
Percent Solids for Sample: 100 Spiked ID: J2503-01MSD Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.063	J	2	67	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: Solid **Sample ID:** J2152-03 **Client ID:** BU-03-042018DUP
Percent Solids for Sample: 86.3 **Duplicate ID** J2152-03DUP **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.11	J	0.034	U	200.0	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: Solid **Sample ID:** J2152-03MS **Client ID:** BU-03-042018MSD
Percent Solids for Sample: 86.3 **Duplicate ID** J2152-03MSD **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1			2	5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: WATER **Sample ID:** J2498-01 **Client ID:** VB16206-VB16122DUP
Percent Solids for Sample: 0 **Duplicate ID** J2498-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.19		0.19		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: WATER **Sample ID:** J2498-01MS **Client ID:** VB16206-VB16122MSD
Percent Solids for Sample: 0 **Duplicate ID** J2498-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.24		0.25		4		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: Solid **Sample ID:** J2503-01 **Client ID:** DRUM-2-1-PPEDUP
Percent Solids for Sample: 100 **Duplicate ID** J2503-01DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.063	J	0.051	J	21	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94838 **Level:** LOW **SDG No.:** LB94838
Contract: **Lab Code:** CHEM **Case No.:** LB94838 **SAS No.:** LB94838
Matrix: Solid **Sample ID:** J2503-01MS **Client ID:** DRUM-2-1-PPEMSD
Percent Solids for Sample: 100 **Duplicate ID** J2503-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.3		1.4		7		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94838

SDG No.: LB94838

Contract:

Lab Code: CHEM

Case No.: LB94838

SAS No.: LB94838

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108492BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94838

SDG No.: LB94838

Contract:

Lab Code: CHEM

Case No.: LB94838

SAS No.: LB94838

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108493BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94838

SDG No.: LB94838

Contract:

Lab Code: CHEM

Case No.: LB94838

SAS No.: LB94838

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108494BS Cyanide	mg/L	0.1	0.1		100	85 - 115	