

Daily Analysis Runlog For Sequence/QC Batch ID # LB94355

Review By		Review On				
SubDirectory		LB94355		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63362,WP63363,WP63364,WP63365,WP63366,WP63367,WP63368				
ICV Standard		W1542				
CCV Standard		WP63369				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63371,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/04/18 08:21		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/04/18 08:21		OK
3	10PPBCN	10PPBCN	CAL3	04/04/18 08:21		OK
4	50PPBCN	50PPBCN	CAL4	04/04/18 08:21		OK
5	100PPBCN	100PPBCN	CAL5	04/04/18 08:21		OK
6	250PPBCN	250PPBCN	CAL6	04/04/18 08:21		OK
7	500PPBCN	500PPBCN	CAL7	04/04/18 08:21		OK
8	ICV1	ICV1	ICV	04/04/18 08:49		OK
9	ICB1	ICB1	ICB	04/04/18 08:49		OK
10	CCV1	CCV1	CCV	04/04/18 09:36		OK
11	CCB1	CCB1	CCB	04/04/18 09:36		OK
12	PB107951BL	PB107951BL	MB	04/04/18 09:36		OK
13	PB107951BS	PB107951BS	LCS	04/04/18 09:36		OK
14	LOWPB107951	LOWPB107951	SAM	04/04/18 09:36		OK
15	HIGHPB107951	HIGHPB107951	SAM	04/04/18 09:36		OK
16	J2133-02	LOQ-SOIL-02-QT2-2	LOQ	04/04/18 09:36		OK
17	J2133-03	MDL-SOIL-03-QT2-2	SAM	04/04/18 09:36		OK
18	J2185-01	LOWER-CONCRETE	SAM	04/04/18 09:36		OK
19	J2185-01DUP	LOWER-CONCRETE	DUP	04/04/18 09:36		OK
20	J2185-01MS	LOWER-CONCRETE	MS	04/04/18 09:43		OK
21	CCV2	CCV2	CCV	04/04/18 09:43		OK

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SubDirectory		LB94355		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63362,WP63363,WP63364,WP63365,WP63366,WP63367,WP63368				
ICV Standard		W1542				
CCV Standard		WP63369				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63371,WP59958,WP60878				
22	CCB2	CCB2	CCB	04/04/18 09:43		OK
23	J2185-01MSD	LOWER-CONCRETE	MSD	04/04/18 09:43		OK
24	J2185-10	LOWER-CONCRETE	SAM	04/04/18 09:43		OK
25	PB107953BL	PB107953BL	MB	04/04/18 09:43		OK
26	PB107953BS	PB107953BS	LCS	04/04/18 09:43		OK
27	J2133-07	LOD-MDL-WATER-0	SAM	04/04/18 09:43		OK
28	J2133-08	LOQ-WATER-02-QT2	LOQ	04/04/18 09:43		OK
29	J2133-09	MDL-WATER-03-QT2	SAM	04/04/18 09:43		OK
30	J2133-01	LOD-MDL-SOIL-01-C	SAM	04/04/18 10:01		OK
31	CCV3	CCV3	CCV	04/04/18 10:01		OK
32	CCB3	CCB3	CCB	04/04/18 10:01		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94355	Date Received:	
Client Sample ID:	HIGHPB107951	SDG No.:	LB94355
Lab Sample ID:	HIGHPB107951	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		04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94355	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2018	SDG No.:	LB94355
Lab Sample ID:	J2133-01	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	0.08	J	1	0.033		0.25	mg/Kg	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94355	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	MDL-SOIL-03-QT2-2018	SDG No.:	LB94355
Lab Sample ID:	J2133-03	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	0.079	J	1	0.031		0.24	mg/Kg	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94355	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT2-2018	SDG No.:	LB94355
Lab Sample ID:	J2133-07	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	0.0017	U	1	0.003		0.005	mg/L	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94355	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT2-2018	SDG No.:	LB94355
Lab Sample ID:	J2133-09	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	0.0015	U	1	0.003		0.005	mg/L	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/2/2018 12:00:00 AM
Project:	LB94355	Date Received:	4/2/2018 12:00:00 AM
Client Sample ID:	LOWER-CONCRETE-SLAB-1	SDG No.:	LB94355
Lab Sample ID:	J2185-01	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	0.046	J	1	0.032		0.25	mg/Kg	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/2/2018 12:00:00 AM
Project:	LB94355	Date Received:	4/2/2018 12:00:00 AM
Client Sample ID:	LOWER-CONCRETE-SLAB-2	SDG No.:	LB94355
Lab Sample ID:	J2185-10	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	0.014	U	1	0.032		0.24	mg/Kg	04/03/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94355	Date Received:	
Client Sample ID:	LOWPB107951	SDG No.:	LB94355
Lab Sample ID:	LOWPB107951	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	0.011		1	0.003		0.005	mg/L		04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94355	Date Received:	
Client Sample ID:	LOWPB107951	SDG No.:	LB94355
Lab Sample ID:	LOWPB107951	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: LB94355

SDG No.: LB94355

Contract: _____

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

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	0.093	0.099	93.9		85 - 115		04/04/2018	08:49	LB94355



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94355

SDG No.: LB94355

Contract: _____ Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

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		04/04/2018	09:36	LB94355
CCV2	Cyanide	0.25	0.25	100		90 - 110		04/04/2018	09:43	LB94355
CCV3	Cyanide	0.27	0.25	108		90 - 110		04/04/2018	10:01	LB94355



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00028	+/-0.005	U		0.005		04/04/2018	08:49	LB94355



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0	+/-0.005	U		0.005		04/04/2018	09:36	LB94355
CCB2	Cyanide	0.00048	+/-0.005	U		0.005		04/04/2018	09:43	LB94355
CCB3	Cyanide	0.00038	+/-0.005	U		0.005		04/04/2018	10:01	LB94355



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94355

SDG No.: LB94355

Contract: Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB94355

SDG No.: LB94355

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
PB107951BL	Cyanide	SOLID		Batch Number:		PB107951		Prep Date:	04/03/2018	
		0.018	<0.24	U		0.24		04/04/2018	09:36	LB94355
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107953BL	Cyanide	WATER		Batch Number:		PB107953		Prep Date:	04/03/2018	
		0	<0.005	U		0.005		04/04/2018	09:43	LB94355



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94355 level: low sdg no.: LB94355
contract: lab code: CHEM case no.: LB94355 sas no.: LB94355
matrix: Solid sample id: J2185-01 client id: LOWER-CONCRETE-SLAB-1MS
Percent Solids for Sample: 100 Spiked ID: J2185-01MS 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	1.5		0.046	J	1.9	77		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94355 level: low sdg no.: LB94355
contract: lab code: CHEM case no.: LB94355 sas no.: LB94355
matrix: Solid sample id: J2185-01 client id: LOWER-CONCRETE-SLAB-1MSD
Percent Solids for Sample: 100 Spiked ID: J2185-01MSD 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	1.5		0.046	J	2	73	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB94355 **Level:** LOW **SDG No.:** LB94355
Contract: **Lab Code:** CHEM **Case No.:** LB94355 **SAS No.:** LB94355
Matrix: Solid **Sample ID:** J2185-01 **Client ID:** LOWER-CONCRETE-SLAB-1DUP
Percent Solids for Sample: 100 **Duplicate ID** J2185-01DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.046	J	0.039	J	16		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94355 **Level:** LOW **SDG No.:** LB94355
Contract: **Lab Code:** CHEM **Case No.:** LB94355 **SAS No.:** LB94355
Matrix: Solid **Sample ID:** J2185-01MS **Client ID:** LOWER-CONCRETE-SLAB-1MSD
Percent Solids for Sample: 100 **Duplicate ID** J2185-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.5		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J2133-02 Cyanide	mg/Kg	0.5	0.41		82	50 - 150	



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J2133-08 Cyanide	mg/L	0.01	0.0096		96	50 - 150	



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107951BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94355

SDG No.: LB94355

Contract:

Lab Code: CHEM

Case No.: LB94355

SAS No.: LB94355

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107953BS Cyanide	mg/L	0.1	0.094		94	85 - 115	